## Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-1

RIN template appendix B – Regulatory accounting statement templates

Public



30 April 2014

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### Distribution Network Service Provider Annual reporting template

This template is to be used by a DNSP to fulfil its annual reporting obligations to the AER.

Colour coding of input sheets:
Dark blue = AER instructions/headings
Yellow = Input cells
Grey - Not applicable/No inputs required

Leave coloured cells blank if no information exists - PLEASE DO NOT ENTER TEXT unless specifically requested to do so. All dollar amounts are to be unrounded, and in nominal terms.

DNSP - trading name:	Jemena Electricity Networks (Vic) Limited
DNSP - Australian business number:	82 064 651 083
Reporting year:	2013

Business address	Address Suburb State	321 Ferntree Mt Waverley VIC	e Gully Road / Postcode	3149
Postal address	Address Suburb State	321 Ferntree Mt Waverley VIC	e Gully Road y Postcode	3149
Contact name/s Contact phone/s Contact email address/s	Anton Murashev (03) 8544 9036 anton.murashev@jemena.com.au			

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### Jemena Electricity Networks (Vic) Limited

### Income Statement 2013

Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting - A	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
						Energy efficient	Non energy efficient	Fee based service	Quoted service			
	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
Distribution Revenue	226,279	(0)	226,279	226,279								199,697
Designated Pricing Proposal Charges	73,986	130	74,116	74,116								62,926
Jurisdictional Scheme Amounts		11,723	11,723	11,723								3,599
Profit from sale of Fixed Assets	182	-	182	168				12	3			65
Customer Contributions	10,159	(10,159)	-	-	-	-	-	-	-	-	-	-
Other Revenue	74,564	(62)	74,502	738	56,538	36	3,879	6,852	1,833		4,625	1,287
Total revenue	385,171	1,632	386,803	313,024	56,538	36	3,879	6,863	1,836	-	4,625	267,574
Designated Pricing Approval Charges	63,659	(25)		63,634								64,412
Jurisdictional Scheme Amounts	9,469	(14)	,	9,454								6,847
Maintenance	-	29,644	29,644	25,407	1,863	-	1,893		-	-	-	18,898
 JEN	100,927	(30,006)	70,920	47,213	18,332	-	1,023	3,252	681		419	54,744
Depreciation	71,541	5,147	76,688	48,433	26,093	1	305	1,811	39	7	-	47,153
Finance Charges	28	(28)	-									-
Loss from sale of Fixed Assets												19
Impairment Losses (Nature: )												-
Other (Rounding)												-
Profit before Tax (PBT)	139,548	(3,086)	136,462	118,883	10,251	35	659	1,319	1,117	(7)	4,206	75,500
	139,548	(3,086)	130,462	110,003	10,251	30	009	1,319	1,117	(7)	4,206	75,500
Income Tax Expenses /(Benefit)	41,017	(41,017)	-									
	41,017	(41,017)										-
Profit after tax	98,531	37,932	136,462	118,883	10,251	35	659	1,319	1,117	(7)	) 4,206	75,500

### Note:

Balancing is required at JEN distribution business level

In addition it is mandatory to produce for each cost or revenue item that has been allocated to the distribution services/AMI a supporting

workpaper that includes the following:

a) the amounts that have been directly attributed to each distribution service

b) the amounts that have been allocated to each distribution service

c) a description of the allocation basis d) the numeric quantity of each allocator.

Designated pricing approval charges include SPI connection fees, AEMO shared transmission charges, net cross boundary charges, avoided TUoS/avoided transmission costs.

Customer contributions reported above under the 'JEN' column includes pole to pits elective undergrounding.

### JEN's explanatory notes:

**1** JEN has highlighted errors in Template 1 in bold red font. Details as follows:

### Designated Pricing Proposal Charges (cell C11):

The wording in cell C11 should be Designated Approval Charges.

Designated Approval Charges is the revenue collected in relation to items such as Transmission Use of System tariffs as approved by the AER. Therefore, it is reported under the Revenue section of an income statement.

JEN has reported its Designated Pricing Approval Charges in row 11.

Designated Pricing Approval Charges (cell C19):

The wording in cell C19 should be Designated Pricing Proposal charges. Designated Pricing Proposal charges are the pass through costs incurred by a distribution business. Consistent with Template 12 of Appendix B, JEN has reported Designated Pricing Proposal charges in row 19.

### JEN (cell C22)

The wording for cell C22 should be Operating Expenses.

**2** JEN has populated Template 1 sourcing data from other templates within Appendix B. The other source templates are the supporting workpapers for Template 1.

The basis of allocation and numeric quantity of each allocator are detailed in JEN's response to Sections 2 and 3 of Schedule 1 to the RIN.

### Depreciation (cell C23)

The allocation of accounting depreciation to SCS and other services is based on the depreciation profile as reported in Table 2 of Template 7 in JEN's RIN 2012. Depreciation for AMI is directly sourced from the General Ledger.

### 3 Audited Statutory Financial Statements (column D)

Where the disclosures in the RIN template align with the audited statutory financial statements, the figures are sourced from the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.



### Jemena Electricity Networks (Vic) Limited Balance Sheet 2013

No longer required as advised by AER Staff Explanatory notes are not applicable

Statutory count code reference to count code	Description	Audited Statutory Amount	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting - /	Alternative Control	Other Alternative	e Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non energy efficient	Fee based services	Quoted services			
	CURRENT ASSETS	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Cash and cash equivalents												
	Trade and other receivables			-	-								
	Financial Assets Derivatives												
	Current tax assets												
	Prepayments			-	-								
	Accrued Revenue			-	-								
	Inventories												
	Other		-										
	Total Current Assets	-	-	-	-	-	-	-	-	-	-	-	-
	NON-CURRENT ASSETS												
	JEN												
	Financial assets												
	Derivatives												
	Deferred tax asset												
	Property, Plant and Equipment			-	-	-	-	-	-	-	-	-	
	Other - Licenses			-	-								
	Total Non-Current Assets	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL ASSETS	-	-	-	-	-	-	-	-	-	-	-	-
	CURRENT LIABILITIES												
	Trade and other creditors			-	-								
	Interest bearing borrowings												
	Customer deposits Bank overdraft												
	Current tax liability		-										
	Provisions			-	-								
	Other (loans)		-	-	-	-							
	Total Current Liabilities	-	-	-	-	-	-	-	-	-	-	-	-
	NON-CURRENT LIABILITIES												
	Provisions												
	Interest bearing borrowings												
	Retirement benefit obligations Deferred tax liability												
	Other (rounding)		-										
	Total Non-Current Liabilities	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL LIABILITIES	-	-	-	-	-	-	-	-	-	-	-	-
	NET ASSETS /(LIABILITIES)		-									-	
		-	-	-	-	-		-	-	-	-	-	· · ·
	EQUITY												
	Contributed Equity			-	-								
	Reserves			-	-								
	Retained Profits		-	-	-	-	-	-	-	-	-	-	
	TOTAL EQUITY	-	-	-	-	-	-	-	-	-	-	-	-
		0	0	0		0		0	0	0	0		

Note: Balancing is required at JEN distribution business level It is mandatory to produce for each asset or liability that has been allocated to the distribution services/AMI a supporting workpaper

that includes the following

a) the amounts that have been directly attributed to each distribution service

b) the amounts that have been allocated to each distribution service c) a description of the allocation basis

d) the numeric quantity of each allocator.

JEN's explanatory notes:

1 JEN has highlighted an error (cell C22) in bold red font. It should read Receivables.



# Jemena Electricity Networks (Vic) Limited Cashflows Statement 2013

### No longer required as advised by AER Staff Explanatory notes are not applicable

Statutory Account ode or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative Control Services		Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non energy efficient	Fee based services	Quoted services			
	CASH FLOW FROM OPERATING ACTIVITIES	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Receipts from Customers		-										
	Payments to Suppliers and Employees		-										
	Interest paid												
	Income tax paid												
	CASH FLOW FROM INVESTING ACTIVITIES												
	Proceeds from sale of assets		-										
	Payments for purchase of assets		-										
	Proceeds on sale of investments												
	Purchase of investments												
	CASH FLOW FROM FINANCING ACTIVITIES												
	Proceeds from borrowings												
	Repayment of borrowings		-										
	Proceeds from equity issue												
	Dividends paid												
	Net Cash Flow for the Year	-	-	-	-	-	-	-	-	-	-	-	-
	Cash balance at the beginning of the Year												
	Cash balance at the end of the Year	-	-	-	-	-	-	-	-	-	-	-	-

Note: Balancing is required at JEN distribution business level In addition it is mandatory to produce for each cashflow item that has been allocated to the distribution services/AMI a supporting

workpaper that includes the following: a) the amounts that have been directly attributed to each distribution service

b) the amounts that have been allocated to each distribution service

c) a description of the allocation basis d) the numeric quantity of each allocator.

JEN's explanatory notes:

1 JEN has highlighted an error (cell C22) in bold red font. It should read Repayment of borrowings.

JEN has reported Repayment of borrowings in row 22.



# Jemena Electricity Networks (Vic) Limited Changes in Equity 2013

No longer required as advised by AER Staff Explanatory notes are not applicable

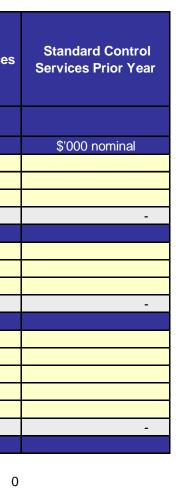
Statutory Account code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
							Energy efficient	Non energy efficient	Fee based services	Quoted services		
	CONTRIBUTED EQUITY	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Opening Balance	-		-								
	Shares Issued	-										
	Shares bought back	-										
	Closing Balance	-	-	-	-	-	-	-	-	-	-	-
	RESERVES											
	Opening Balance			-								
	Fair value adjustments			-								
	Other											
	Closing Balance	-	-	-	-	-	-	-	-	-	-	-
	RETAINED PROFITS											
	Opening Balance											
	Actuarial gains/(losses) on retirement obligations											
	Dividends Paid											
	Other (manual adjustment to balance CIE in adj column to BS)											
	Closing Balance	-	-	-	-	-	-	-	-	-	-	-

Note: Balancing is required at JEN distribution business level The opening balances should agree to the prior year's regulatory accounting statement.

JEN's explanatory notes:

JEN has highlighted an error (cell C20) in bold red font. It should read Profit/Loss for the Period

0 0 0 0 0 0 0 0 0 0





Jemena Electricity Networks (Vic) LimitedFixed Assets at CostNo longer required as advised by AER Staff2013Explanatory notes are not applicable

Table 1 Fixed Assets at Cost - OPENING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting - Alternative Control Other alternative Control Services		Other alternative Control Services		Unregulated Services	
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
S	ubtransmission			-								
	istribution system assets			-								
S	CADA/Network control			-								
	on network - IT			-								
	on network - other			-								
	letering - Non AMI			-								
	MI			-								
	ublic lighting			-								
	Iternative control -other			-								
	egotiated services			-								
	EN	-	-	-	-	-	-	-	-	-	-	-
	nregulated services											
Те	otal	-	-	-	-	-	-	-	-	-	-	-

Table 2 Fixed Assets at Cost - ADDITIONS

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	native Control Other alternative Control Services		Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Subtransmission			-								
	Distribution system assets			_								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	AMI			-								
	Metering - Non AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	I Inregulated services			-								

Onregulated services			-								
Total	-	-	-	-	-	-	-	-	-	-	-

Note: identify any asset transfers between asset categories for fixed assets at cost - additions

### Table 3 Fixed Assets at Cost - DISPOSALS

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	AMI	Public Lighting -	Alternative Control	rnative Control Other alternative Control Services		Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
			-	-								
	Subtransmission			-								
	Distribution system assets											
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	AMI			-								
	Metering - Non AMI			-								
	Public lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

Table 4 Fixed Assets at Cost - CLOSING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	AMI	Public Lighting -	Alternative Control	Other alternative	Control Services	Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
		-	(208,101)	208,101								
	Subtransmission			-								
	Distribution system assets											
				-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	AMI			-								
	Metering - Non AMI			-								
	Public lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services Total	-	_	-	-	-	-	-	-	-	-	-

Note: Asset classes (excluding non AMI metering, public lighting and other alternative control services) are those used in the 2011-15 Distribution Determination RFM & PTRM



Jemena Electricity Networks (Vic) Limited Additions by Reasons (Net of Customer Contributions) 2013

### Instructions:

Reported expenditure is to be entered **INCLUSIVE** of any profit margins or management fees paid directly or indirectly to related party contractors (which is not an actual incurred cost of the related party contractor) for the regulatory reporting period.

If allocating based on assumptions then provide method.

### Table 1 Standard Control Service

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Demand Related					
Reinforcement	15,912	6,221	9,691	-	-
New customer connection	28,274	37	8,059	20,178	-
Non Demand Related					
Reliability & quality maintained	31,354	17,015	13,707	631	-
Environmental, safety & legal	18,332	583	6,416	11,334	-
Total Across Voltage Levels	93,872	23,856	37,873	32,143	-
SCADA/Network control	915	-	-	-	915
Non network general - IT	9,258	-	-	-	9,258
Non network general - other	12,585	-	-	-	12,585
Metering - Non AMI	-	-	-	-	-
Standard Control - Total Additions	116,630	23,856	37,873	32,143	22,758

### Table 2 AMI

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Accumulation Meters	-	-	-	-	-
Manually read interval meters	-	-	-	-	-
Remotely read interval meters & transformers	37,426	-	-	-	37,426
AMI communication	3,142	-	-	-	3,142
Metering data services (IT)	828	-	-	-	828
Metering data services (other)	447	-	-	-	447
AMI - Total Additions	41,844	-	-	-	41,844

 Table 3 Public lighting - Alternative Control

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Public lighting - energy efficient	1	-	-	1	-
Public lighting - non energy efficient	922	-	-	922	-
Public Lighting - Total Additions	923	-	-	923	-

Table 4 Alternative control - fee, quoted services

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Other - fee based services	5,522	-	-	3,757	1,765
Other - quoted services	4,239	-	2,794	1,322	123
Other Alternative Control - Total Additions	9,761	-	2,794	5,078	1,888

### Table 5 Negotiated

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Negotiated services	117	-	-	117	-
Negotiated - Total Additions	117	-	-	117	-

### Table 6 Unregulated

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Unregulated	5	-	-	5	-
Unregulated - Total Additions	5	-	-	5	-

Table 7 Total all additions

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Total Additions (Net of Customer Contributions) \$'000 nominal	169,279	23,856	40,667	38,266	66,490

\$'000 nominal	
Standard control services	6,064
AMI	-
Public lighting	-
Alternative control fee and quoted services	2,093
Negotiated	2,002
Unregulated	-
Total Customer Contributions	10,159



Contents

### Jemena Electricity Networks (Vic) Limited

Additions by Reasons

(Net of Customer Contributions)

2013

### Instructions:

Reported expenditure is to be entered **EXCLUSIVE** of any profit margins or management fees paid directly or indirectly to related party contractors (which is not an actual incurred cost of the related party contractor) for the regulatory reporting period.

If allocating based on assumptions then provide method.

### Table 1 Standard Control Service

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Demand Related					
Reinforcement	15,912	6,221	9,691	-	-
New customer connection	28,274	37	8,059	20,178	-
Non Demand Related					
Reliability & quality maintained	31,354	17,015	13,707	631	-
Environmental, safety & legal	18,332	583	6,416	11,334	-
Total Across Voltage Levels	93,872	23,856	37,873	32,143	-
SCADA/Network control	915	-	-	-	915
Non network general - IT	9,258	-	-	-	9,258
Non network general - other	12,585	-	-	-	12,585
Metering - Non AMI	-	-	-	-	-
Standard Control - Total Additions	116,630	23,856	37,873	32,143	22,758

### Table 2 AMI

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Accumulation Meters	-	-	-	-	-
Manually read interval meters	-	-	-	-	-
Remotely read interval meters & transformers	37,426	-	-	-	37,426
AMI communication	3,142	-	-	-	3,142
Metering data services (IT)	828	-	-	-	828
Metering data services (other)	447	-	-	-	447
AMI - Total Additions	41,844	-	-	-	41,844

Table 3 Public lighting - Alternative Control

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Public lighting - energy efficient	1	-	-	1	-
Public lighting - non energy efficient	922	-	-	922	-
Public Lighting - Total Additions	923	-	-	923	-

### Table 4 Alternative control - fee, quoted services

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Other - fee based services	5,522	-	-	3,757	1,765
Other - quoted services	4,239	-	2,794	1,322	123

Other Alternative Control - Total Additions	9,761	-	2,794	5,078	1,888

Table 5 Negotiated

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Negotiated services	117	-	-	117	-
Negotiated - Total Additions	117	-	-	117	-

Table 6 Unregulated

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Unregulated	5	-	-	5	-
Unregulated - Total Additions	5	-	-	5	-

Table 7 Total all additions

\$'000 nominal	Total		VOLTAGE		
		Subtransmission	HV	LV	Other
Total Additions (Net of Customer Contributions) \$'000 nominal	169,279	23,856	40,667	38,266	66,490

\$'000 nominal	
Standard control services	6,064
AMI	-
Public lighting	-
Alternative control fee and quoted services	2,093
Negotiated	2,002
Unregulated	-
Total Customer Contributions	10,159



Contents

Jemena Electricity Networks (Vic) Limited Additions by Reason - Overheads (Net of Customer Contributions) 2013

### Instructions:

Reported expenditure is to be entered **INCLUSIVE** of any profit margins or management fees paid directly or indirectly to related party contractors (which is not an actual incurred cost of the related party contractor) for the regulatory reporting period.

If allocating based on assumptions then provide method.

\$'000 nominal		D	DIRECT				IN	DIRECT				TOTAL C	OVERHEAD	DS	
		Volt	age				Volt	tage				Volt	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	ΗV	LV	Other	TOTAL
Demand Related															
Reinforcement	863	1,345	-	-	2,209	-	-	-	-	-	863	1,345	-	-	2,209
New customer connection	5	1,119	2,801	-	3,924	-	-	-	-	-	5	1,119	2,801	-	3,924
Non Demand Related															
Reliability & quality maintained	2,362	1,903	88	-	4,352	-	-	-	-	-	2,362	1,903	88	-	4,352
Environmental, safety & legal	81	890	1,573	-	2,545	-	-	-	-	-	81	890	1,573	-	2,545
Total Across Voltage Levels	3,311	5,257	4,462	-	13,030	-	-	-	-	-	3,311	5,257	4,462	-	13,030
SCADA/Network control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non network general - IT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non network general - other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metering - Non AMI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Control - Total Additions	3,311	5,257	4,462	-	13,030	-	-	-	-	-	3,311	5,257	4,462	-	13,030

### Table 2 AMI

\$'000 nominal				TOTAL OVERHEADS											
	Voltage						Volt	age				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Accumulation Meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manually read interval meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remotely read interval meters & transformers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMI communication	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metering data services (IT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metering data services (other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMI - Total Additions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3 Public lighting - Alternative Control

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL C	OVERHEAD	S	
		Vol	tage				Vol	tage				Volt	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Public lighting - energy efficient	-	-	0	-	0	-	-	-	-	-	-	-	0	-	0
Public lighting - non energy efficient	-	-	128	-	128	-	-	-	-	-	-	-	128	-	128
Public Lighting - Total Additions	-	-	128	-	128	-	-	-	-	-	-	-	128	-	128

Table 4 Alternative control - fee, quoted services

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL (	OVERHEAD	S	
		Vol	tage				Volt	tage				Volt	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Other - fee based services	-	-	143	-	143	-	-	-	-	-	-	-	143	-	143
Other - quoted services	-	388	183	-	571	-	-	-	-	-	-	388	183	-	571
Other Alternative Control - Total Additions	-	388	327	-	715	-	-	-	-	-	-	388	327	-	715

### Table 5 Negotiated

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL (	OVERHEAD	S	
		Vol	tage				Volt	age				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Negotiated services	-	-	16	-	16	-	-	-	-	-	-	-	16	-	16
Negotiated - Total Additions	-	-	16	-	16	-	-	-	-	-	-	-	16	-	16

### Table 6 Unregulated

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEAD	DS	
		Vol	tage				Volt	age				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Unregulated	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1
Unregulated - Total Additions	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1

### Table 7 Total all additions

\$'000 nominal		D	IRECT				INI	DIRECT				TOTAL C	VERHEAD	S	
		Voltage					Volt	age				Volt	age		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Total Additions (Net of Customer Contributions) \$'000 nominal	3,311	5,645	4,933	-	13,889	-	-	-	-	-	3,311	5,645	4,933	-	13,889

\$'000 nominal	
Standard control services	842
AMI	-
Public lighting	-
Alternative control fee and quoted services	291
Negotiated	278
Unregulated	-
Total Customer Contributions	1,410



Contents

Jemena Electricity Networks (Vic) Limited Additions by Reason - Overheads (Net of Customer Contributions) 2013

### Instructions:

Reported expenditure is to be entered **EXCLUSIVE** of any profit margins or management fees paid directly or indirectly to related party contractors (which is not an actual incurred cost of the related party contractor) for the regulatory reporting period.

If allocating based on assumptions then provide method.

### Table 1 Standard Control Service

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEA	DS	
		Volt	tage				Vo	tage				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	ΗV	LV	Other	TOTAL
Demand Related															
Reinforcement	863	1,345	-	-	2,209	-	-	-	-	-	863	1,345	-	-	2,209
New customer connection	5	1,119	2,801	-	3,924	-	-	-	-	-	5	1,119	2,801	-	3,924
Non Demand Related															
Reliability & quality maintained	2,362	1,903		-	4,352	-	-	-	-	-	2,362	1,903	88	-	4,352
Environmental, safety & legal	81	890	1,573	-	2,545	-	-	-	-	-	81	890	1,573	-	2,545
Total Across Voltage Levels	3,311	5,257	4,462	-	13,030	-	-	-	-	-	3,311	5,257	4,462	-	13,030
SCADA/Network control	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non network general - IT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Non network general - other	-	-	-	-		-	-	-	-						
Metering - Non AMI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard Control - Total Additions	3,311	5,257	4,462	-	13,030	-	-	-	-	-	3,311	5,257	4,462	-	13,030

### Table 2 AMI

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEA	DS	
		Vol	tage				Vol	tage				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	ΗV	LV	Other	TOTAL
Accumulation Meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manually read interval meters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Remotely read interval meters & transformers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMI communication	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metering data services (IT)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metering data services (other)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
AMI - Total Additions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 3 Public lighting - Alternative Control

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEA	DS	
		Vol	ltage				Vo	tage				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Public lighting - energy efficient	-	-	0	-	0	-	-	-	-	-	-	-	0	-	0
Public lighting - non energy efficient	-	-	128	-	128	-	-	-	-	-	-	-	128	-	128
Public Lighting - Total Additions	-	-	128	-	128	-	-	-	-	-	-	-	128	-	128

### Table 4 Alternative control - fee, quoted services

\$'000 nominal			DIRECT					DIRECT				TOTAL	OVERHEA	DS	
		Vol	tage				Vol	tage				Volt	age		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Other - fee based services	-	-	143	-	143	-	-	-	-	-	-	-	143	-	143
Other - quoted services	-	388	183	-	571	-	-	-	-	-	-	388	183	-	571
Other Alternative Control - Total Additions	-	388	327	-	715	-	-	-	-	-	-	388	327	-	715

### Table 5 Negotiated

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEA	DS	
		Vol	tage				Vol	tage				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	ΗV	LV	Other	Subtotal	Subtransmission	ΗV	LV	Other	TOTAL
Negotiated services	-	-	16	-	16	-	-	-	-	-	-	-	16	-	16
Negotiated - Total Additions	-	-	16	-	16	-	-	-	-	-	-	-	16	-	16

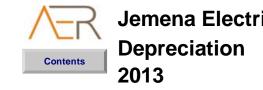
### Table 6 Unregulated

\$'000 nominal			DIRECT				IN	DIRECT				TOTAL	OVERHEA	DS	
		Vol	tage				Vol	tage				Vol	tage		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Unregulated	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1
Unregulated - Total Additions	-	-	1	-	1	-	-	-	-	-	-	-	1	-	1

### Table 7 Total all additions

\$'000 nominal			DIRECT				INI	DIRECT				TOTAL C	VERHEA	DS	
		Volt	age				Vol	tage				Volta	age		
	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	Subtotal	Subtransmission	HV	LV	Other	TOTAL
Total Additions (Net of Customer Contributions) \$'000 nominal	3,311	5,645	4,933	-	13,889	-	-	-	-	-	3,311	5,645	4,933	-	13,889

\$'000 nominal	
Standard control services	842
AMI	-
Public lighting	-
Alternative control fee and quoted services	291
Negotiated	278
Unregulated	-
Total Customer Contributions	1,410



Jemena Electricity Networks (Vic) Limited

No longer required as advised by AER Staff Explanatory notes are not applicable

Table 1 Fixed Assets Depreciation - OPENING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other alternative	e Control Services	Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
				-								
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

Table 2 Fixed Assets Depreciation - ADDITIONS

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting	- Alternative Control	Other alternativ	e Control Services	Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		A
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
				-								
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

### Table 3 Fixed Assets Depreciation- DISPOSALS

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other alternativ	e Control Services	Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
				-								
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

Table 4 Fixed Assets Depreciation - CLOSING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting	- Alternative Control	Other alternativ	ve Control Services	Negotiated service	Unregulated Services
							Energy Efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Subtransmission			-								
	Distribution system assets			-								
	SCAD/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-		· -	-	-	-	-	-
	Unregulated services											
	Total		-	-	-			-	-	-		-

Note: Asset classes (excluding non AMI metering, public lighting and other alternative control services) are those used in the 2011-15 Distribution Determination RFM & PTRM



Jemena Electricity Networks (Vic) Limited Written Down Values 2013 No longer

No longer required as advised by AER Staff Explanatory notes are not applicable

Table 1 Fixed Assets WDV- OPENING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
							Energy efficient	Non energy efficient	Fee based services	Quoted services		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
				-								
	Subtransmission			- -								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	AMI Metering - Non AMI			- -								
	Public Lighting											
	Alternative control -other			-								
	Negotiated services			-								
	JEN	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

### Table 2 Fixed Assets WDV - ADDITIONS NET OF DEPRECIATION CHARGE

Statutory Account code or reference to account code		Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
							Energy efficient	Non energy efficient	Fee based services	Quoted services		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
				-								
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	AMI			-								
	Metering - Non AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services			-								
	Total	-	-	-	-	-	-	-	-	-	-	-

### Table 3 Fixed Assets WDV- DISPOSALS

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
							Energy efficient	Non energy efficient	Fee based services	Quoted services		
		\$'000 nominal	\$'000 nominal	\$'000 nominal -	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nomina
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services											
	Total	-	-	-	-	-	-	-	-	-	-	-

### Table 4 Fixed Assets WDV - CLOSING

Statutory Account code or reference to account code	Description	Statutory Accounts	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
							Energy efficient	Non energy efficient	Fee based services	Quoted services		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nomina
				-								
	Subtransmission			-								
	Distribution system assets			-								
	SCADA/Network control			-								
	Non network - IT			-								
	Non network - other			-								
	Metering - Non AMI			-								
	AMI			-								
	Public Lighting			-								
	Alternative control -other			-								
	Negotiated services			-								
	Sub Total	-	-	-	-	-	-	-	-	-	-	-
	Unregulated services			-								
	Total	-	-	-	-	-	-	-	-	-	-	-

Note: Asset classes (excluding non AMI metering, public lighting and other alternative control services) are those used in the 2011-15 Distribution Determination RFM & PTRM



Jemena Electricity Networks (Vic) Limited Additions by Tax 2013

Table 1 Standard Control Services - excl metering

Asset Class	Tax Depreciation - Rate (Post Ralph 10 May 2006 onwards)	Additions per Taxation Category Exclusive of Related Party Margin	Additions per Taxation Category Inclusive of Related Party Margin
		\$'000 nominal	\$'000 nominal
Demand related capital expenditure	4.00%	50,250	50,250
Replacement expenditure (Group 1)	100.00%	27,278	27,278
Replacement expenditure (Group 2)	10.00%	2,195	2,195
Replacement expenditure (Group 3)	4.00%	1,881	1,881
Environment, safety & legal	10.00%	18,332	18,332
SCADA/Network control	10.00%	915	915
Non-network general assets - IT	40.00%	9,258	9,258
Non-network general assets - Other	17.65%	12,585	12,585
RBPC - Excl Metering - TOTAL ADDITIONS		122,694	122,694

Capitalised Finance Charges Included in above Total	-	
	-	

### Table 2 Metering

	JEN		
Asset Class	Tax Depreciation - Rate (Post Ralph 10 May 2006)	Category Exclusive of	Additions per Taxation Category Inclusive of Related Party Margin
		\$'000 nominal	\$'000 nominal
Meters and transformers (Group 1) (Unit cost < \$1,000)	37.50%	37,426	37,426
Meters and transformers (Group 2) (Unit cost => \$1,000)	6.00%	-	-
IT	40.00%	828	828
Communications	21.43%	3,142	3,142
Other	17.65%	447	447
Metering - TOTAL ADDITIONS		41,844	41,844

Capitalised Finance Charges Included in above Total	-	-

-



## Jemena Electricity Networks (Vic) Limited Advanced Metering Infrastructure

### Table 1 Standard control asset base - metering

	Opening value	Actual capital expenditure – as incurred	Actual asset disposals – as incurred	Actual capital contributions – as incurred	Actual net capital expenditure – as incurred
	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
Accumulation meters	4,794	-	-	-	-
Manually read interval meters	1,573	-	-	-	-
Remotely read interval meters and transformers	53,046	37,426	-	-	37,426
IT	19,311	828	-	-	828
Communications	2,860	3,142	-	-	3,142
Other	44,685	447	-	-	447
Total	126,268	41,844	-	-	41,844

### Table 2a Number of meters installed

	Current Year	Prior Year
Accumulation meters		
Single phase non off peak	1	2
Single phase off peak	1	24
Multi phase direct connect	-	44
Multi phase current transformers	-	-
Total accumulation meters installed	2	70
MRIM meters		
Single phase non off peak	3	524
Single phase off peak	12	6
Multi phase direct connect	4	309
Multi phase current transformers	15	67
Total MRIM meters installed	34	906
AMI meters		
Single phase single element	80,196	62,288
Single phase single element with contactor	3,639	-
Single phase two element with contactor	19,895	-
Three phase	20,084	3,269
Three phase direct connected meter	-	-
Three phase direct connected meter with contactor	176	-
Three phase Current transformer connected meter	638	-
Total AMI meters installed	124,628	65,557
Total meters installed	124,664	66,533

### Table 2b Cumulative number of meters

	Current Year	Prior Year
Accumulation meters		
Single phase non off peak	22,823	91,457
Single phase off peak	749	25,724
Multi phase direct connect	9,749	26,047
Multi phase current transformers	354	649
Total accumulation meters	33,675	143,877
MRIM meters		
Single phase non off peak	554	4,846
Single phase off peak	1,092	1,466
Multi phase direct connect	545	1,681
Multi phase current transformers	384	850
Total MRIM meters	2,575	8,843
AMI meters		
Single phase single element	234,653	156,849
Single phase single element with contactor	3,779	-
Single phase two element with contactor	20,287	-
Three phase	27,658	7,403
Three phase direct connected meter	-	-
Three phase direct connected meter with contactor	203	-
Three phase Current transformer connected meter	638	-
Total AMI meters	287,218	164,252
Total meters	323,468	316,972

### Table 3 AMI meter reconciliation

	Current Year	Prior Year
Opening number of meters	164,252	99,866
Installs	124,628	65,557
Abolishments	838	669
AMI meter for AMI meter replacements	824	502
Closing number of meters	287,218	164,252

### Table 4 Number of meter read quantity - end of year

Number of meters read monthly - accumulation	2,415
Number of meters read quarterly - accumulation	39,783
Number of meters read monthly - interval	619
Number of meters read quarterly - interval	1,647
Number of meters read remotely	285,022
Total	329,486



# Jemena Electricity Networks (Vic) Limited Maintenance Costs Exclusive of Margin 2013

Statutory Account code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non energy efficient	Fee based service	Quoted service			
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Routine		11,299	11,299	11,299	-	-	-	-	-	-	-	7,44
	Condition based		3,367	3,367	3,367	-	-	-	-	-	-	-	3,77
	Emergency		7,238	7,238	7,238	-	-	-	-	-	-	-	5,89
	SCADA/Network Control		48	48	48	-	-	-	-	-	-	-	13
	Other - Standard Control Services (a)		3,455	3,455	3,455	-	-	-	-	-	-	-	1,00
	AMI		1,863	1,863	-	1,863	-	-	-	-	-	-	-
	Public Lighting		1,893	1,893	-	-	-	1,893	-	-	-	-	-
	Alternative control -other		481	481	-	-	-	-	481	-	-	-	-
	Negotiated services		-	-	-	-	-	-	-	-	-	-	-
	Sub Total	-	29,644	29,644	25,407	1,863	-	1,893	481	-	-	-	18,26
	JEN	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	29,644	29,644	25,407	1,863	_	1,893	481	-	-	-	18,26

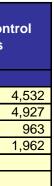
a. Please list any cost item which is more than 5% of the total standard control maintenance cost in the table below:

Statutory Account code or reference to account code		Audited statutory financial statements	Adjustments	JEN	Standard Cont Services
	Vegetation Management		4,532	4,532	
	Fault Work		4,927	4,927	
	Zone Substation Primary Equipment Maintenance		963	963	
	Overhead Line Inspection		1,962	1,962	

JEN's explanatory notes:

JEN has highlighted an error (cell C22) in bold red font. It should read Unregulated.

2 Where the disclosures in the RIN template align with the audited statutory financial statements, the figures are sourced from the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.





# Jemena Electricity Networks (Vic) Limited Maintenance Costs Inclusive of Margin 2013

nstructions: Reported expenditure	is to be entered <b>INCLUSIVE</b> of any profit ma	argins or management fees paid di	rectly or indirectly to related	I party contractors (whic	h is not an actual incurred cost c	f the related party contrac	tor) for the reporting per	riod.					
Statutory Account code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	AMI	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non energy efficient	Fee based service	Quoted service			
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
F	Routine		11,299	11,299	11,299	-	-	-	-	-	-	-	7.81
C	Condition based		3,367	3,367	3,367	-	-	-	-	-	-	-	3,92 5,99 13
E	Emergency		7,238	7,238	7,238	-	-	-	-	-	-	-	5,99
S	SCADA/Network Control		48	48	48	-	-	-	-	-	-	-	13
C	Other - Standard Control Services (a)		3,455	3,455	3,455	-	-	-	-	-	-	-	1,03
A	AMI		1,863	1,863	-	1,863	-	-	-	-	-	-	-
F	Public Lighting		1,893	1,893	-	-	-	1,893	-	-	-	-	-
A	Alternative control -other		481	481	-	-	-	-	481	-	-	-	-
	legotiated services			-	-	-	-	-	-	-	-	-	-
S	Sub Total	-	29,644	29,644	25,407	1,863	-	1,893	481	-	-	-	18,89
J	IEN	-	-	-	-	-	-	-	-	-	-	-	-
T	otal	-	29,644	29,644	25,407	1,863	-	1,893	481	-	-	-	18,89

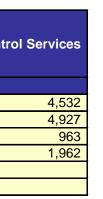
a. Please list any cost item which is more than 5% of the total standard control maintenance cost in the table below:

Statutory Account code or reference to account code		Audited statutory financial statements	Adjustments	JEN	Standard Contro
	Vegetation Management		4,532	4,532	
	Fault Work		4,927	4,927	
	Zone Substation Primary Equipment Maintenance		963	963	
	Overhead Line Inspection		1,962	1,962	

JEN's explanatory notes:

JEN has highlighted an error (cell C22) in bold red font. It should read Unregulated.

2 Where the disclosures in the RIN template align with the audited statutory financial statements, the figures are sourced from the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.





## Jemena Electricity Networks (Vic) Limited Operating Expenditures Exclusive of Margin 2013

### Instructions:

Reported expenditure is to be entered EXCLUSIVE of any profit margins or management fees paid directly or indirectly to related party contractors (which is not an act

count code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non-energy efficient	Fee based service	Quoted service			
	Designated Pricing Proposal Charges:	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Transmission Connection Fee	8,507	-	8,507	8,507	-	-	-	-	-	-	-	8,357
/	Avoided TUoS charges/transmission costs		-	-	-	-	-	-	-	-	-	-	-
/	AEMO shared TUOS Charges	52,084	-	52,084	52,084	-	-	-	-	-	-	-	53,446
	Net Cross Boundary Network Charges	3,068	(25)	3,043	3,043	-	-	-	-	-	-	-	2,625
	Jurisdictional Scheme Amounts:												
	Premium Feed In Tariff	6,504	(14)	6,489	6,489	-	-	-	-	-	-	-	6,061
	Fransitional Feed In Tariff	2,965	-	2,965	2,965	-	-	-	-	-	-	-	786
	insert future jurisdictional scheme payment>		-	-	-	-	-	-	-	-	-	-	-
	Sub Total	73,128	(39)	73,088	73,088	-	-	-	-	-	-	-	71,27
	Operating Costs												
	Network Operating Costs		11,048	11,048	11,048	-	-	-	-	-	-	-	15,558
	Silling & Revenue Collection		828	828	828	-	-	-	-	-	-	-	81
	Advertising/Marketing		754	754	754	-	-	-	-	-	-	-	53
	Customer Service		3,293	3,293	3,293	-	-	-	-	-	-	-	2,07
	Regulatory		2,241	2,241	2,241	-	-	-	-	-	-	-	2,18
	Regulatory Reset		-	-	-	-	-	-	-	-	-	-	-
	Т		5,433	5,433	4,892	-	-	146	156	64	-	174	,
	Licence fee		22	22	22	-	-	-	-	-	-	-	1:
	GSL payments		67	67	67	-	-	-	-	-	-	-	9
	Non-network alternatives costs		-	-	-	-	-	-	-	-	-	-	-
	Debt raising costs		-	-	-	-	-	-	-	-	-	-	-
	Other - Standard Control Services (a,b)	100,927	(76,859)	24,067	24,067	-	-	-	-	-	-	-	26,06
·	AMI		18,332	18,332	-	18,332	-	-	-	-	-	-	-
	Public Lighting		877	877	-	-	-	877	-	-	-	-	-
	Alternative control -other		3,713	3,713	-	-	-	-	3,096	617	-	-	-
	Negotiated services		-	-	-	-	-	-	-	-	-	-	-
	Sub Total	100,927	(30,251)	70,675	47,213	18,332	-	1,023	3,252	681	-	174	54,39
	Jnregulated services	-	245	245	-	-	-	-	-	-	-	245	-
	Γotal	174,054	(30,046)	144,008	120,302	18,332	-	1,023	3,252	681	-	419	125,660

a. Please list any cost item which is more than 5% of standard control operating costs in the Table 2:

### Table 2 Operating Expenditure - Other Costs

Statutory Account code or reference to account code	Audited Statutory Financial Statements	Adjustments	JEN	

### Table 3 Operating Expenditure - Non-Recurrent Network Operating Costs

Statutory Account code or reference to account code	Audited Statutory Financial Statements	Adjustments	JEN

b. Please identify any non recurrent cost which is more than 5% of the total standard control operating costs in the Table 3:

### JEN's explanatory notes:

JEN has therefore left Table 2 intentionally blank.

- 1 No cost item more than 5% of standard control operating costs can be identified.
- 2 No non recurrent cost more than 5% of the total standard control operating costs can be identified. JEN has therefore left Table 3 intentionally blank.
- 3 Where the disclosures in the RIN template align with the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.

	ctual incurred cost of t	he related party	contractor) for th	e reporting period.
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Standard Control Services	

Standard Control Services 



### Jemena Electricity Networks (Vic) Limited ACTIVITIES B: Operating Expenditures Inclusive of Margin 2013

Instructions:

count code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	AMI	Public Lighting - A	Iternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non efficient	Fee based service	Quoted service			
	Designated Pricing Proposal Charges:	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Transmission Connection Fee	8,507	-	8,507	8,507	-	-	-	-	-	-	-	8,3
	Avoided TUoS charges/transmission costs	-	-	-	-	-	-	-	-	-	-	-	-
	AEMO shared TUOS Charges	52,084	-	52,084	52,084	-	-	-	-	-	-	-	53,4
	Net Cross Boundary Network Charges	3,068	(25)	3,043	3,043	-	-	-	-	-	-	-	2,6
	Jurisdictional Scheme Amounts:												
	Premium Feed In Tariff	6,504	(14)	6,489	6,489	-	-	-	-	-	-	-	6,0
	Transitional Feed In Tariff	2,965	-	2,965	2,965	-	-	-	-	-	-	-	7
	Sub Total	73,128	(39)	73,088	73,088	-	-	-	-	-	-	-	71,2
	Operating Costs												
	Network Operating Costs		11,048	11,048	11,048	-	-	-	-	-	-	-	15,64
	Billing & Revenue Collection		828	828	828	-	-	-	-	-	-	-	8
	Advertising/Marketing		754	754	754	-	-	-	-	-	-	-	5
	Customer Service		3,293	3,293	3,293	-	-	-	-	-	-	-	2,1
	Regulatory		2,241	2,241	2,241	-	-	-	-	-	-	-	2,1
	Regulatory Reset		-	-	-	-	-	-	-	-	-	-	-
	IT		5,433	5,433	4,892	-	-	146	156	64	-	174	7,2
	Licence fee		22	22	22	-	-	-	-	-	-	-	
	GSL payments		67	67	67	-	-	-	-	-	-	-	
	Non-network alternatives costs		-	-	-	-	-	-	-	-	-	-	-
	Debt raising costs		-	-	-	-	-	-	-	-	-	-	-
	Other - Standard Control Services (a,b)	100,927	(76,859)	24,067	24,067	-	-	-	-	-	-	-	26,1
	AMI		18,332	18,332	-	18,332	-	-	-	-	-	-	-
	Public Lighting		877	877	-	-	-	877	-	-	-	-	
	Alternative control -other		3,713	3,713	-	-	-	-	3,096	617	-	-	
	Negotiated services		-	-	-	-	-	-	-	-	-	-	
	Sub Total	100,927	(30,251)	70,675	47,213	18,332	-	1,023	3,252	681	-	174	54,7
	Unregulated services	-	245	245	-	-	-	-	-	-	-	245	· · · · · · · · · · · · · · · · · · ·
	Total	174,054	(30,046)	144,008	120,302	18,332	-	1,023	3,252	681	-	419	126,0

a. Please list any cost item which is more than 5% of standard control operating costs in the Table 2:

### Table 2 Operating Expenditure - Other Costs

Statutory Account code or reference to account code	Description	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ		Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services	Standard Control Services Prior Year
							Energy efficient	Non-energy efficient	Fee based service	Quoted service			

### Table 3 Operating Expenditure - Non-Recurrent Network Operating Costs

Statutory Account code or reference to account code	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services

b. Please identify any non recurrent cost which is more than 5% of the total standard control operating costs in the Table 3:

JEN's explanatory notes:

1 No cost item more than 5% of standard control operating costs can be identified.

JEN has therefore left Table 2 intentionally blank.

2 No non recurrent cost more than 5% of the total standard control operating costs can be identified. JEN has therefore left Table 3 intentionally blank.

3 Where the disclosures in the RIN template align with the audited statutory financial statements, the figures are sourced from the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.



### Jemena Electricity Networks (Vic) Limited Labour and Non-Labour Costs 2013

Account code or reference to account code	Description	Labour Costs	Non-Labour Costs	Total
		\$'000 nominal	\$'000 nominal	\$'000 nominal
	Operating Expenditure	18,884	28,330	47,213
	Maintenance Expenditure	10,162	15,245	25,407
	Capital Expenditure	42,125	74,505	116,630
	Total	71,170	118,080	189,250

Totals are representative of Standard Control Services in all schedules.

Percentage splits gained by using the labour/Non labour split as found in the GL accounts of Jemena Asset Management. and where Capex is concerned also including the labour portion of WOBCA.

### JEN's explanatory notes:

1 JEN reports the labour and non-labour costs for Standard Control activities in the table above.

2 For capital expenditure, JEN reports the labour and non-labour cost split for net capital expenditure (after netting off customer contribution).

## Jemena Electricity Item Contents Jemena Electricity Item Step Changes to Opex 2013 Jemena Electricity Networks (Vic) Limited

### No longer required as advised by AER Staff Explanatory notes are not applicable

Table 1 Operating Expenditure - Step Changes (exclusive of margins)

Statutory Account code or reference		Audited Statutory Financial Statements	Adjustments	
to account code		<b>M</b> IQQQ		
		\$'000 nominal	\$'000 nominal	
	Customer communications			
	Electricity safety regulations			
	Environmental obligations			
	Information technology			
	Insurance			
	National framework for distribution planning and expansion			
	Other Opex Step Changes			
	Addition Opex Step Changes proposed by JEN			
	<dnsp specific=""></dnsp>			

### Table 2 Operating Expenditure - Step Changes (inclusive of margins)

Statutory Account code or reference to account code		Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services
	JEN	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Customer communications				
	Electricity safety regulations				
	Environmental obligations				
	Information technology				
	Insurance				
	National framework for distribution planning and expansion				
	Other Opex Step Changes				
	Addition Opex Step Changes proposed by JEN				
	<dnsp specific=""></dnsp>				

### Note:

Where top down allocation is applied, provide for each cost item that has been allocated to JEN & standard control distribution services a supporting workpaper that includes the following:

a) the amounts that have been directly attributed to the standard control service

b) the amounts that have been allocated to the standard control distribution service

c) a description of the allocation basis

d) the numeric quantity of each allocator.

JEN	Standard Control Services
\$'000 nominal	\$'000 nominal



# Jemena Electricity Networks (Vic) Limited Total Overheads 2013

Statutory Account code or reference to account code		Gross Capex	Opex	Total
	Direct overheads	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Standard Control	13,871	19,066	32,937
	AMI	-	-	-
	Public lighting - energy efficient	0	-	0
	Public lighting - energy non efficient	128	792	920
	Alternative control - fee based	144	1,015	1,158
	Alternative control - quoted	862	185	1,047
	Negotiated services	294	-	294
	Unregulated	1	114	115
	Subtotal	15,300	21,171	36,471
	Indirect overheads	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Standard Control	-	5,545	5,545
	AMI	-	-	-
	Public lighting - energy efficient	-	-	-
	Public lighting - energy non efficient	-	230	230
	Alternative control - fee based	-	295	295
	Alternative control - quoted	-	54	54
	Negotiated services	-	-	-
	Unregulated	-	33	33
	Subtotal	-	6,158	6,158
	Total overheads	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Standard Control	13,871	24,611	38,482
	AMI	-	-	-
	Public lighting - energy efficient	0	-	0
	Public lighting - energy non efficient	128	1,023	1,151
	Alternative control - fee based	144	1,310	1,453
	Alternative control - quoted	862	239	1,100
	Negotiated services	294	-	294
	Unregulated	1	147	148
	Total Overheads	15,300	27,329	42,629

Note: (a) Provide direct overheads where applicable (b) The allocation of overheads is to be consistent with the approved Cost Allocation Method

### JEN's explanatory notes:

1 Due to improvements in JEN's timewriting processes, there has been an increase in the level of overheads being job costed. These overheads have been classified as direct overheads in accordance to the AER's definition.



# Jemena Electricity Networks (Vic) Limited Provisions 2013

Instructions Fill out separate tables for each provision

In addition it is mandatory to produce for each provision that has been allocated to JEN a supporting

- written explanation of the need for the provision

- written explanation of the movements in the provision.

Account code or reference to account code	Provision Name	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Servic
							Energy efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Opening Balance	(381)		(381)	(381)							
	Liabilities paid from provision charged to opex											
	Liabilities paid from provision charged to capex											
	Increase /decrease in provision charged to opex	175		175	175							
	Increase/decrease in provision charged to capex											
	Other adjustments (a)											
	Closing Balance	(206)	-	(206)	(206)	-	-	-	-	-	-	

### a: Please explain other adjustments in the table below:

Account code or reference to account code	Provision Name	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Servio
							Energy efficient	Non-energy efficient	Fee based service	Quoted service		
		\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal

### JEN's explanatory notes:

**1** As JEN does not have 'Other adjustment(s)', the second table has been left intentionally blank.

**2** The details of the provisions are set out below.

2.1 GL accounts	Provision JSAP	Balance @ Dec 13	Balance @ Dec 12	Difference
1280900000	Provision for Doubtful Debts	(21,047)	(45,684)	24,637
2280100300	Uninsured Losses	(184,544)	(335,301)	150,758
		(205,591)	(380,985)	175,394

### 2.2 Provision for Doubtful Debts

Provision for doubtful debts has been made in accordance to JEN's company policy for amounts unpaid for more than 60 days.

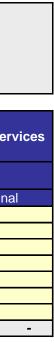
The provision is increased or decreased reflecting the change in the provisions as shown in Note 2.1 above.

The provision includes a credit note of \$29k to AGL for illegal use of electricity at NMI 6001317972 -10 Langford Drive Craigieburn. AGL is yet to take up the credit.

2.3 Uninsured Losses

Provision for Uninsured Losses has been made for potential customer claims against JEN for damages to customers' property caused by JEN network incidents. These claims could be based on various damages, e.g. motor burn out, fires, wiring, abandonment of food, etc. The provision is increased or decreased reflecting the change in the provisions as shown in Note 2.1 above.

3 Where the disclosures in the RIN template align with the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.



rvices	
al	



# Jemena Electricity Networks (Vic) Limited Shared Cost Allocations 2013

### Instructions

1. For shared cost allocation within distribution services, please state that all items have been allocated in accordance with the approved Cost Allocation Method (CAI 2. For cost allocation between distribution and non-distribution business, please provide work paper to demonstrate costs have been allocated from statutory accounts

Statutory Accounced code or referenc to account code	Audited Statutory Financial Statements	Adjustments	JEN	Standard Control Services	АМІ	Public Lighting -	Alternative Control	Other Alternative	Control Services	Negotiated Services	Unregulated Services
						Energy efficient	Non-energy efficient	Fee based service	Quoted service		
	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	-	22,150	22,150	21,538	-	-	230	295	54	-	33

JEN's explanatory notes:

1 All items have been allocated in accordance with the approved Cost Allocation Methodology (CAM), formerly known as WOBCA.

2 The explanation of cost allocation between distribution and non-distribution business is set out in worksheet 17A.

3 Where the disclosures in the RIN template align with the audited statutory financial statements, the figures are sourced from the audited statutory financial statements. Where this is not possible, the figures are sourced from the audited statutory financial statements.

AM)	
nts to distribution business in accordance with the cost allocations principles set out in Appendix A of the RIN.	

### 17A Shared costs

In addition to direct costs, Jemena Ltd. (**JEM**) and the service companies also incur indirect costs. These indirect costs are incurred as a result of the delivery of services associated with a particular client or multiple client contracts across the Jemena Group, but cannot be readily allocated to individual jobs or projects.

There are two main categories of indirect costs, namely JEM indirect corporate Enterprise Service Function (ESF) costs and Jemena Asset Management (JAM) regional and corporate indirect costs.

### 1 Whole of Business Cost Allocation model

To ensure appropriate allocation of all indirect costs, JEM uses a Whole of Business Cost Allocation (WOBCA) methodology which forms a part of JEM's Cost Allocation Policy. This policy is subject to continuing improvement in costing methodologies and changes in business structure.

WOBCA was designed to remove the potential double counting of operating costs and any costs that are specifically excluded for regulatory accounting and reporting purposes in a given regulatory reporting period. A number of steps in the preparation of indirect operating costs, prior to the allocation calculation being performed, are designed to eliminate such costs. This is achieved by:

- · extracting the financial data from all ledgers for the same time period;
- removing any costs that are specifically excluded for regulatory accounting and reporting purposes; and
- performing reconciliations to check that the total operating cost pool is reconciled to the post-allocated cost pool.

### 2 ESF costs

JEM builds, owns and manages a combination of major electricity, gas and water assets. JEM ESF corporate costs are those costs incurred in the provision of corporate services to the associated companies, which include Jemena wholly owned assets, partly owned assets and assets managed by Zinfra under contract.

Under WOBCA, ESF costs - comprising CEO, Strategy, Finance, Audit, Risk, HR, HSE, legal, IT and other similar functions - are primarily allocated to JEM's assets (wholly and partly owned) and to JAM. The primary allocation is based on a reasonable causal relationship between the cost incurred and the service consumed. The major primary allocation drivers are:

- Timewriting data;
- Info Systems driver;
- Insurance driver; and
- Adjusted Fair Value driver.

Jemena is continually looking to improve its driver sets.

### NAP & WD costs (formerly "JAM indirect regional and corporate costs")

JAM incurred operating costs in the provision of services, such as Regional Operations, Finance, Asset Services and Customer Services etc. These costs are allocated to each client contract by applying a cost allocation driver based on JAM's employee labour time spent within those indirect regional and corporate business units (FTE driver).

Indirect regional and corporate costs are captured by cost centres. Cost centres are generally aligned to organisational structure or contract.

### 3 Shared cost allocators

The WOBCA methodology was designed to allocate indirect costs occurring within JEM and JAM for the purpose of determining the underlying cost of providing services to each network asset or external client. The methodology uses a number of drivers, on a causal basis, dependent upon the nature of the cost being allocated.

In this context, causal relationship means that the relevant allocator is the best available proxy of consumption or utilisation of the resources or services represented by the costs (or other account item) that is being allocated. Once identified, the relevant cost allocator is applied to each cost item, as defined by the business unit or organisational view of the business.

All of these costs are generic corporate costs that are incurred for the benefit of the entire JEM Group. For instance, where Fair Value has been used as the allocator, Management considers that the most significant factor in the consumption or utilisation of these corporate costs is the relative importance of the Group's assets – that is, Management is likely to spend its time in proportion to the relative value of each asset.

The numeric quantity or percentage of the allocators identified is expected to vary throughout the regulatory control period, as the value of the relevant inputs change. For example, the FTE allocator used to allocate JAM's indirect regional and corporate costs is based on the percentage of employee time spent on each JAM client contract. This could change as the JAM labour force is employed across a diverse and growing client portfolio.

### 4 Shared costs allocation

These shared or indirect costs, once allocated to JEN, are then allocated between the services provided by JEN. The costs are allocated on their proportion of direct costs compared to total direct costs to split between Standard Control Services and Alternate Control & Other Services as per the CAM. The amount allocated to Alternate Control & Other Services is then allocated to Fee Based, Quoted, Public Lighting and Unregulated Services using revenue as the basis to mirror the allocation method used for indirect costs in the final 2010 JEN Distribution Determination.

During the roll-out phase of the AMI program, all AMI-related costs are outsourced and are being captured and reported separately from all other costs incurred by JEN. Under the AER's classification, AMI metering services are considered to be unregulated services for the 2011-2015 regulatory period. AMI did not receive any allocation of WOBCA for the period January-March 2012 since direct costs relating to AMI attracted a 6% mark-up.

However, due to the elimination of primary and secondary drivers, and the in-sourcing of all metering activities from 1 April 2012, direct costs associated with metering activities, like all other business activities, now attract an allocation of ESF costs in proportion to the management effort at relevant cost centre level.



### Jemena Electricity Networks (Vic) Limited **Avoided Cost Payments** 2013

Statutory Account code or reference to account code	e or reference Description		Number of Projects
	Deferral of Augmentation to Transmission Networks	\$'000 nominal	
	Embedded generators	-	-
	Related party embedded generators	-	-
	Customers	-	-
	Avoided TUOS	109	-
	Sub Total	109	-
	Deferral of Augmentation to Distribution Networks		
	Embedded generators	-	-
	Related party embedded generators	-	-
	Customers	-	-
	Avoided TUOS		
	Sub Total	-	-
	TOTAL	109	-

### JEN's explanatory notes:

1 JEN made Avoided TUOS payment to only Somerton Power Station. For the purpose of populating Template 18, JEN counts Somerton Power Station as one project.



### Jemena Electricity Networks (Vic) Limited Alternative Control Services and Other Services 2013

Statutory Account code or reference to account code	Description	Direct O&M Costs	Indirect O&M costs	Direct Capex	Indirect Capex	Revenue
	Alternative Control Services - Fee Based	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Meter investigation	-	0	-	-	(
	De-energisation of existing connections	317	171	-	-	542
	Energisation of existing connections	42	169	-	-	534
	Special meter reading	14	39	-	-	124
	Re-test of type 5 and 6 metering installations for first tier customers with annual consumption greater than 160 MWh Operation, repair, replacement and maintenance of DNSP	30	13	-	-	40
	public lighting assets					
	Fault response - not DNSP fault	- 93	- 82	-	-	26
				-	-	
	Temporary disconnect/reconnect services	11	30	-	-	9
	Wasted attendance - not DNSP fault	130	116	-	-	36
	Service truck visits	1,185	411	-	-	1,30
	Reserve feeder	379	110	-	-	34
	PV installation	-	-	-	-	-
	Routine connections - customers below 100 amps	-	-	5,138	144	2,70
	Temporary supply services	205	115	-	-	36
	Remote meter re-configuration	15	25	-	-	7
	Remote de-energisation	2	19	-	-	6
	Remote re-energisation	0	10	-	-	3
	Total fee based alternative control services	2,424	1,310	5,138	144	6,85
	Alternative Control Services - Quoted	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Rearrangement of network assets at customer request, excluding alteration and relocation of existing public lighting					
	assets	-	-	-	-	-
	Supply enhancement at customer request	-	-	-	-	-
				- - -	- - -	-
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP)	-	-	- - -	- - -	- 47
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction	- 355	- 178	- - - -	- - - -	- 47
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees	- 355	- 178	- - - - - -	- - - - - -	- 47
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists	- 355	- 178 19 -	- - - - - - 879	- - - - - - 142	- 47 - -
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles	- 355 41 - - -	- 178 19 - - - -	-	- - - - - - 142 -	- 47 - - 1,06 -
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines	- 355 41 - - - -	- 178 19 - - - - - -	- - - - - - 879 - -	- - - - - - 142 - - -	- 47 - - 1,06 -
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons	- 355 41 - - -	- 178 19 - - - -		- - - - - - - 142 - - - -	- 47 - - - 1,06 - - 7
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps	- 355 41 - - - - - - - - - - - -	- 178 19 - - - - - 28 -	-	- - - - - - 142 - - -	- 47 - - - 1,06 - - - - 7 13
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment	- 355 41 - - - - - - - - - - - - - - - - - -	- 178 19 - - - - - 28 - 14	- - - 318 -	- - - - - - - 142 - - - - - - - - - - - - - - - - - - -	- 47 - - - 1,06 - - - 1,06 - - - 1,06 - - - - - - - - - - - - - - - - - - -
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	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment Total quoted alternative control services <b>Public Lighting</b>	- 355 41 - - - - - - - - - - - - - - - - - -	- 178 19 - - - - - 28 - 14	- - - 318 -	- - - - - - - - - - - - - - - - - - -	- 47 5 - - 1,06 - - 7 13 3 3 1,83 \$'000 nominal
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment Total quoted alternative control services Public Lighting Efficient	- 355 41 - - - - - - - - - - - 46 442 \$'000 nominal	- 178 19 - - - - - 28 - 28 - 14 239 \$'000 nominal -	- - - 318 - 1,197 \$'000 nominal 1	- - - - - - - - - - - - - - - - - - -	- 47 - - - - 1,06 - - - - - 7 1 3 - - - 7 1 3 - - - 7 1 3 - - - 7 5 - - - - - - - - - - - - - - -
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	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment Total quoted alternative control services <b>Public Lighting</b> Efficient Non efficient Total public lighting	- 355 41 - - - - - - - - - - 46 442 \$'000 nominal - 1,893 1,893	- 178 19 - - - - 28 - 14 239 \$'000 nominal - 1,023 1,023	- - - 318 - 1,197 \$'000 nominal 1 794 795		
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	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment Total quoted alternative control services <b>Public Lighting</b> Efficient Non efficient Total public lighting	- 355 41 - - - - - - - - - - 46 442 \$'000 nominal - 1,893 1,893	- 178 19 - - - - 28 - 14 239 \$'000 nominal - 1,023 1,023	- - - 318 - 1,197 \$'000 nominal 1 794 795		
	Supply enhancement at customer request Supply abolishment Emergency recoverable works (that is, emergency works where customer is at fault and immediate action needs to be taken by the DNSP) Auditing of design and construction Specification and design enquiry fees Elective underground service where an existing overhead service exists Damage to overhead service cables pulled down by high load vehicles High load escorts—lifting overhead lines Covering of low voltage mains for safety reasons Routine connections, for customers > 100amps After hours truck by appointment Total quoted alternative control services Public Lighting Efficient Non efficient Total public lighting Other Activities - Non Regulated	- 355 41 - - - - - - - - - - 46 442 442 5 (000 nominal - 1,893 1,893 1,893	- 178 19 - - - - - 28 - - 28 - 14 239 \$'000 nominal - 1,023 1,023 1,023 \$'000 nominal	- - - 318 - 1,197 \$'000 nominal 1 794 795 \$'000 nominal		- 4 - - 1,0 - - - 1,0 - - - - 1,0 - - - - - - - - - - - - - - - - - - -

TOTAL	5,031	2,718	7,133	456	17,226

### JEN's explanatory notes:

1 Consistent with the format set out in other templates (e.g. Templates 6, 11 and 12), JEN reads Public Lighting in this template as the ACS public lighting rather than new public lighting (negotiated services).

2 The ACS Capex amount shown in Template 6 includes vehicle, mobile plant & equipment (\$307k) which are excluded in this template as it is not feasible to allocate to individual Alternative Services. The ACS Capex shown in Template 6 also includes \$2.8M of Capital Recoverable works which are not listed in Template 19.

### Table 1 Standard Control Services Revenue - Current Year

Note: insert additional rows as necessary

Statutory Account code or reference to account code	JEN Category	Amount of Electricity Distributed	Distribution Revenue
	Tariff categories	GWh	\$'000 nominal
A100	General Purpose	1,127	89,602
A10X	Flexible	1	54
A10I	Time of Use Interval Meter	67	4,943
A140	Time of Use	15	812
A180	Off Peak Heating Only	48	772
A200	General Purpose	189	17,021
A210	Time of Use Weekdays	309	21,827
A230	Time of Use Weekdays - Demand	95	6,206
A250	Time of Use Extended	63	4,740
A270	Time of Use Extended - Demand	30	2,010
A290	Unmetered Supply	54	2,328
A300	LV 0.4 - 0.8 GWh	302	19,364
A30E	LVEN Annual Consumption <= 0.8 GWh	8	775
	LV 0.8+ - 2.2 GWh	472	20,573
A32E	LVEN 0.8+ - 2.2 GWh	26	1,317
A340	LV 2.2+ - 6.0 GWh	203	7,197
A34E	LVEN 2.2+ - 6.0 GWh	28	1,066
A34M	LVMS 2.2+ - 6.0 GWh	21	943
A370	LV 6.0+ GWh	83	2,494
A37E	LVEN 6.0+ GWh	0	2,404
A37M	LVMS 6.0+ GWh	104	2,765
A400	HV	467	13,564
A40E	HVEN Annual Consumption <= 10 GWh		10,004
A40R	HVRF (closed to new entrants)	96	1,989
	HVEN 10+ GWh	0	.,000
A480	HV - Annual Consumption >= 55 GWh		
	Subtransmission		
A50A	Subtransmission MA		
A50E	Subtransmission EG		
	Total	4,254	226,279

### Table 2 Standard Control Revenue - Prior Year

Note: insert additional rows as necessary

Statutory Account code or reference to account code		Amount of Electricity Distributed	Distribution Revenue
	Tariff categories	GWh	\$'000 nominal
A100	General Purpose	1,180	81,686
A10I	Time of Use Interval Meter	50	3,205
A140	Time of Use	17	770
A180	Off Peak Heating Only	52	732
A200	General Purpose	194	15,203
A210	Time of Use Weekdays	326	20,195
A230	Time of Use Weekdays - Demand	93	5,174
A250	Time of Use Extended	66	4,358
A270	Time of Use Extended - Demand	32	1,859
A290	Unmetered Supply	56	2,101
A300	LV 0.4 - 0.8 GWh	307	16,313
A30E	LVEN Annual Consumption <= 0.8 GWh	5	340
A320	LV 0.8+ - 2.2 GWh	471	17,302
A32E	LVEN 0.8+ - 2.2 GWh	21	961
A340	LV 2.2+ - 6.0 GWh	221	6,567
A34E	LVEN 2.2+ - 6.0 GWh		
A34M	LVMS 2.2+ - 6.0 GWh	22	834
A370	LV 6.0+ GWh	72	1,953
A37E	LVEN 6.0+ GWh	0	0
A37M	LVMS 6.0+ GWh	107	2,418
A400	HV	462	11,799
A40E	HVEN Annual Consumption <= 10 GWh		
A40R	HVRF (closed to new entrants)	108	1,707
A42E	HVEN 10+ GWh	0	0
A480	HV - Annual Consumption >= 55 GWh		
A500	Subtransmission		
A50A	Subtransmission MA		
A50E	Subtransmission EG		and the second
	Total	4,365	199,697



### Jemena Electricity Networks (Vic) Limited Efficiency Benefits Sharing Schemes 2013

### Table 1 Opex for EBSS Purposes

Note: a) Only superannuation costs related to defined benefit schemes are to be reported

b) Only self insurance cost categories approved in the AER's determination are to be reported

	\$'000 nominal
Total Actual Opex	72,620
Debt raising costs	
Self insurance	567
Superannuation defined benefit schemes	
Non network alternatives costs	
DMIA costs	48
Pass through event costs	
GSL payments	67
Total opex adjustment for EBSS purposes	682
Total opex for EBSS purposes	71,938

Note: Total opex for EBSS purposes has not been adjusted for movement in provisions

### Table 2 Explanation of Capitalisation Policy Changes

Note: this should include a description of any items that have previously been considered as opex items, but are now being considered capex items.

Capitalisation Policy Change	Impact on forecast opex (\$'000 nominal)	Description
Total	0	

JEN's explanatory notes:

**1** There is no change in JEN's capitalisation policy.

Table 2 is therefore not applicable and JEN has therefore left Table 2 intentionally blank.





## Jemena Electricity Networks (Vic) Limited Jurisdictional Scheme Payments 2013

;	Scheme Payment Name	Description	Date DNSP Became Subject to Scheme	Description of Cost Recovery Method	Total Scheme Payments (\$'000 nominal)
PFIT		Premium Solar Feed-in Tariff Scheme	1/11/2009	Cost is recovered through tariffs	6,489
TFIT		Transitional Feed-in Tariff Scheme	1/01/2012	Cost is recovered through tariffs	2,965
		9,454			



## Jemena Electricity Networks (Vic) Limited Demand management incentive scheme

2013 Contents

Instructions:
Enter all demand management innovation allowance information for the relevant regulatory year in the tables below. The information should be provided in accordance with the AER's Final demand management incentive scheme for Victorian DNSPs, April 2009.
Table 1 provide the following for each demand management incentive allowance project undertaken: a) the name of each project b) operating expenditure (\$ nominal) c) capital expenditure (\$ nominal)
Table 2 provide information on the total amount of DMIA spent in the previous regulatory year a) the name of each project b) operating expenditure (\$ nominal) c) capital expenditure (\$ nominal)
<ul> <li>Table 3 provide the following for each demand management program or project for which forgone revenue is claimed:</li> <li>a) the name of the project</li> <li>b) forecast demand (MW) without the implementation of the non-tariff demand management program</li> <li>c) actual demand (MW) with the implementation of the non-tariff demand management program</li> <li>d) price applicable to forgone quantities</li> </ul>

### Table 1 DMIA undertaken

Name of project	2013				
Name of project	Operating expenditure (\$ nominal)	Capital expenditure (\$ nominal)	Total expenditure (\$ nominal)		
Impact of Energy Portal on Customers' Consumption Habits			48,356		
			0		
			0		
			0		
			0		
			0		
Total	48,356	0	48,356		

Table 2 DMIA expenditure in the regulatory reporting year

	Total amount of the DMIA spent in previous regulatory year						
Name of project	Operating expenditure (\$ nominal)	Capital expenditure (\$ nominal)	Total expenditure (\$ nominal)				
Energy Portal Project		223,925	223,925				
			0				
			0				
Tota	0	223,925	223,925				

 Table 3 Foregone revenue in the regulatory reporting year

Name of project	Total						
	Forecast quantity	Actual quantity	Forgone quantity	Price			
			0				
			0				
			0				
			0				
			0				
			0				
Total	0	0	0				

Note 1: Table 3 has been left blank intentionally as JEN has not identified any forgone revenue in the regulatory reporting year.

### **Arrow Content** And Arrow **Arrow Content** And Contents Self Insurance 2013

 Table 1 Self Insurance Events with an Incurred Cost of Greater than \$100 000 per Event.

Type of Self Insurance Event	Date of Event	Description of Event	Cost of the Event that Relates to Regulated Assets (\$'000 nominal)	Other Costs (eg Costs Related to Non-regulated Assets) (\$'000 nominal)	Total Cost of Self Insurance Event (\$'000 nominal)	Costs Covered by External Funding (\$'000 nominal)	Costs to be passed through (\$'000 nominal)	Independently verifiable informatior attached?
Severe Hail Storm	25/12/2011	A storm event that resulted in hail damage to the roof of the Broadmeadows Warehouse (Cool Drive) which caused asbestos fibres to be released inside the building along with water damage.						
			45	-	45	468	-	Yes
Low Voltage Injection	17/03/2013	Electrical damage to a large number of customers' equipment following a Low Voltage Injection into Havelock-Cathart substation.						
			148	-	148	-	-	Yes
High Voltage Injection	5/05/2013	Electrical damage to a large number of customers' equipment following a High Voltage Injection into Lockheed-Boeing substation.						
			149	-	149	-	-	Yes
		Total actual cost of self insurance	341	-	341	468	-	

Table 2 Self insurance events with an incurred cost of less than \$100 000 per event

Number of events	Costs of the events that relate to regulated assets	Costs covered by external funding	Costs that do not relate to regulated assets
208	226	0	

### Table 3 Total self insurance that relate to regulated assets

Total self insurance	567	567
Note: This section is not intended to reconcile with E	EBSS data	EBSS data

### Table 1:

### Event: Severe Hail Storm

Costs of \$45k resulting from hail damage to the roof of the Broadmeadows Warehouse (Cool Drive) which caused asbestos fibres to be released inside the building along with water damage. These costs form part of a claim submitted to the insurance company during CY12, but are actual costs incurred in CY13.

Total costs covered by external funding of \$468k comprise actual cash receipts and expected cash to be collected at a future date.

	CY12	CY13	Life to Date
Costs incurred for this event	(1,965)	(45)	(2,010)
Insurance Refund	800	468	1,268
Insurance Excess	500	0	500
Expected Future Insurance			
Refund	(665)	423	(242)

### Event: Low Voltage Injection

Costs of \$148k resulting from electrical damage following a low voltage injection into Havelock-Cathart substation: These costs represent claims yet to be submitted to the insurance company. The insurance excess is \$100,000.

### Event: High Voltage Injection

Costs of \$149k resulting from electrical damage following a high voltage injection into Lockheed-Boeing substation: These costs represent claims yet to be submitted to the insurance company.

The insurance excess is \$100,000.

### Table 2:

A total cost of \$226k of self insurance has been incurred for events of less than \$100k per event occurring in 2013 with claims received and settlements paid as at 31 December 2013.

The 208 events mainly relate to damage to third party property and represent events based on trouble orders resulting in claims. Where there is no associated trouble order and there was still a settlement, this has been classed as a single event. The network incidents causing the damage include:

- supply failure as a result of fallen tree branches, weather effects (e.g., lightning, storm), animal/bird damage, pole fire or vandalism etc.

- voltage fluctuation due to electrical or mechanical failure resulting in asset or service failure etc.





### Jemena Electricity Networks (Vic) Limited Change of Accounting Policy 2013

Please state the nature and reason for the change:

### Table 1 The aggregate effect of the change in accounting policy on the balance sheet and income statements

Statutory Account code or reference to account code		Previously Stated	Adjustment	Restated
	Balance Sheet	\$'000 nominal	\$'000 nominal	\$'000 nominal
	Item			
	Income Statement			
	Item			

JEN's explanatory notes:

<sup>1</sup> There is no change in JEN's accounting policies. JEN has therefore left the table intentionally blank.



Jemena Electricity Networks (Vic) Limited **Related Party Transactions** 

 Table 1. Payments made by JEN to Related Party under CONTROL or INFLUENCING Ownership

 Note: for transactions with a Related Party that is related to the provision of standard control services, alternative control services, Advanced Metering Infrastructure or negotiated distribution services and greater than \$500,000

Name of related party	Services Provided	Contract Charge	Contract Charge (\$'000 nominal)		Actual Cost (\$'000 nominal)		000 nominal)	Description of how this transaction amount was determined	Description of how this amount is reflected in the Regulatory Accounting Statements, including the asset class or cost category
		Capex	Opex	Capex	Opex	Capex	Opex		
					and an and a second sec	Stated states			
	the set in the set of								

Table 2. Composition of margins in relation to table 1.

Name of related party	Services Provided	Margins (\$'0	Total (\$'000 nominal)	
		Overhead	Residual	
				0.0
				0.0
				0.0
				0.0
				0.0
				0.0

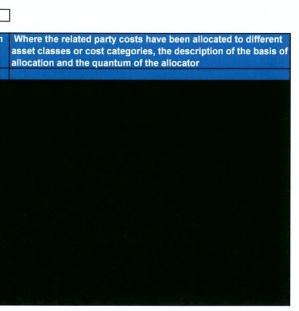
Note: Provide, if separately identifiable the proportion of margins related to overhead costs and the proportion if any, that is related to assets used but not in the Distribution Businesses regulatory asset base.

### JEN's explanatory notes:

### 1 Table 1:

Jemena Asset Management costs are inclusive of the Zinfra Contracting Pty Ltd Group ma

The related party margin reported in the prior year's RIN between Jemena Electricity Networks and Jemena Asset Management was The prior year RIN included the Zinfra Contracting Pty Ltd Group margin which was disclosed separately in the explanatory notes.





Please populate table 1 where the asset categories definitions differ from the "Asset Installation" worksheet. The definitions in table 1 are not limited or restricted. Please include additional definitions where necessary. Median unit costs should be used. Where unit costs are not recorded at the asset category level - provide the best estimates of the unit cost using the cost allocation method outlined in table 1. As a transitional measure, the unit cost may be based on a statistically significant annual sample of actual work orders at a 5% or better confidence interval. Provide basis of allocation where applicable AER expected expenditure (\$2010) means bushfire related expenditure as approved under the AER Determination for 2011-15 AER expected expenditure (\$2010) means ESL and non ESL, ESMS related expenditure as approved under the AER Determination for 2011-15 AER expected volumes means the bushfire related expenditure in volumes as submitted under the AER Determination for 2011-15 as well as approved by ESV. AER expected volumes means the ESL and non ESL and ESMS related volumes as approved under the AER Determination for 2011-15 as well as approved by ESV. AER expected volumes means the ESL and non ESL and ESMS related volumes as approved under the AER Determination for 2011-15 CPI applied to convert expenditure in real \$2010 to nominal based on lagged September CPI index

 Table 1 Asset groups: Definitions, cost-allocation basis and methodology

Asset group	Category i.e., bushfire, ESMS, ESL or non- ESL	Definitions	Basis for allocation of cost to asset group
Planned non-preferred services replacements	ESMS	Non-preferred services are upgraded to current standards as a proactive replacement program and in conjunction with other work such as network augmentation, pole replacement, reconductoring and asset relocation	This program replaces overhead services based on condition. The cost is allocated to "Services" asset group.
Planned replacement of non-preferred services due to height	ESMS	As with other non-preferred services particular attention is paid to services that are below regulated heights and are prioritised based on the classification of the road and the height of the service at the kerb, point of attachment and centre of the road.	This is a program to replace overhead services based on code height requirements. The cost is allocated to "Services" asset group.
Removal of public lighting switchwire	ESMS	Remove out-of-service public lighting switchwire to eliminate hazards to line workers and the general public.	This is a dedicated project to remove the public lighting switchwire. This project has been reclassified to Opex and is not allocated to an asset group.
Replacement of existing SWER lines with 22kV overhead bare conductor	Bushfire	Convert existing Single Wire Earth Return (SWER) lines into 3-phase distribution network to improve sensitivity of electrical protection .	This is a dedicated project to replace existing Single Wire Earth Return (SWER) lines with 3-phase conductor. The cost is allocated to "Conductor" asset group.
Installation of GFN and associated equipment at zone substations	Bushfire	A GFN is a Ground Fault Neutraliser, also known as Rapid Earth Fault Current Limiter (REFCL), which is installed inside a zone substation and has the purpose of limiting earth fault current and reducing bushfire ignition risk.	This is a dedicated project to install GFN in zone substations supplying into the Hazardous Bushfire Risk Area (HBRA). The cost is allocated to "Zone - Other assets" asset group.
Replacement of crossarms/insulator sets – pole top fire mitigation	ESMS	Replace deteriorated pole top structures to reduce the risk of pole top fire ignition. The distribution feeders that have been targeted for pole fire mitigation were identified from detailed engineering analysis.	This is a dedicated program to replace pole top structures based on condition of pole tops. The cost is allocated to the "Pole Top Structures" asset group
Replacement of crossarms – based on age and condition	ESMS	The asset inspection program makes an assessment of the serviceability of crossarms based on condition. Crossarms are replaced when they are deemed to reach the end of their service life.	This is an inspection driven program to replace pole top structures based on condition. The cost is allocated to the "Pole Top Structures" asset group
Replacement of poles – based on age and condition	ESMS	Poles are replaced when they have reached the end of their service life and are unsuitable for staking.	This is an inspection and test driven program to replace poles based on the findings. The cost is allocated to the "Poles" asset group.
Stake poles – based on age and condition	ESMS	The pole inspection program uses a technical measurement procedure to determine the serviceability of wood poles. Poles are staked to reinforce their strength if their condition has deteriorated but could remain in service after reinforcement.	This is an inspection and test driven program to stake poles based on the findings. The cost is allocated to the "Poles" asset group and sub-group of "Staked Poles".
Replacement of undersized poles	ESMS	Replace undersized poles which could not be reinforced by staking as these poles have sub-standard strength (typically 5kN or less) and have a history of failure in severe wind storms.	This is a dedicated program to identify and replace undersized poles if not suitable for staking. The cost is allocated to the "Poles" asset group.
Stake undersized poles	ESMS	Reinforce undersized poles by staking as these poles have sub-standard strength (typically 5kN or less) and have a history of failure in severe wind storms.	This is a dedicated program to identify and stake undersized poles if suitable. The cost is allocated to the "Poles" asset group and sub-group of "Staked Poles".
Replacement of overhead conductor – mainly steel	Bushfire	Replace overhead conductors in the HBRA based on condition.	This is a dedicated program to replace overhead conductor in the HBRA based on condition. The cost is allocated to the "conductor" asset group.
Service line clearance – overhead services requiring relocation	ESMS	Replace overhead services where it is not economical or feasible to cut back the vegetation to meet the new Electricity Safety (Electric Line Clearance) Regulations 2010.	This is a dedicated program to replace overhead services where it is not economical or feasible to cut back the vegetation to meet code requirements. The cost is allocated to "Services" asset group.
Service line clearance – overhead services requiring undergrounding	ESMS	Underground overhead services where it is not economical or feasible to cut back the vegetation to meet the new Electricity Safety (Electric Line Clearance) Regulations 2010.	This is a dedicated program to replace overhead services with underground services where it is not economical or feasible to cut back the vegetation to meet code requirements. The cost is allocated to "Service"s asset group.
Replacement of SWER with ABC/underground cabling	ESMS	-	JEN did not propose replacement of SWER with ABC/underground cabling.
Replacement of 22kV distribution feeders with ABC/underground cabling	ESMS	-	JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
Distribution Transformer Height Rectification	ESMS	To modify mounting arrangement to ensure the pole top distribution transformer heights meet code requirements.	This is a dedicated program to ensure the pole top distribution transformer heights meet code requirements. The cost is allocated to the "Distribution Others" asset group.
Vibration Dampers	Bushfire	To install Vibration Dampers in the Hazardous Bushfire Risk Area (HBRA). This is an ESV directive from the Bushfire Royal Commission recommendation.	This is a dedicated program to install Vibration Dampers in the Hazardous Bushfire Risk Area (HBRA). The cost is allocated to "Conductor" asset group.
Armour Rods	Bushfire	To install Armour Rods in the Hazardous Bushfire Risk Area (HBRA). This is an ESV directive from the Bushfire Royal Commission recommendation.	This is a dedicated program to install Armour Rods in the Hazardous Bushfire Risk Area (HBRA). The cost is allocated to "Conductor" asset group.
Zone Substation Earth Grid replacements	ESMS	To identify, test and replace zone substation earth grids to ensure they meet safety requirements.	This is a dedicated program to identify, test and replace zone substation earth grids. The cost is allocated to "Zone-Other Assets" asset group.
Trial of Neutral Condition Monitor	ESMS	AER approved an opex step change for the trial of neutral condition monitors. JEN has instead invested in a capex program "Customer Supply Monitoring" (CSM) to provide neutral condition monitoring.	This is a project to trial the use of the smart meter to monitor the condition of the services line. The cost is allocated to "Others" asset group.

Asset group	Units	AER expected volumes	Actual Units	
Planned non-preferred services replacements	no. of services	-	-	
Planned replacement of non-preferred services due to height	no. of services			
Removal of public lighting switchwire	no. of spans removed	-	-	
Replacement of existing SWER lines with 22kV overhead bare conductor	no. of kms of SWER	3	14	
Installation of GFN and associated equipment at zone substations	no. of zone substations	1	-	
Replacement of crossarms/insulator sets – pole top fire mitigation	no. of crossarms/sets	-	-	
Replacement of crossarms – based on age and condition	no. of crossarms	-	-	
Replacement of poles – based on age and condition	no. of poles	-	-	
		-	-	
Stake poles – based on age and condition	no. of poles	-		
Replacement of undersized poles	no. of poles			
Stake undersized poles	no. of poles	-	-	
Replacement of overhead conductor – mainly steel	no. of kms	22	12	
Service line clearance – overhead services requiring relocation	no. of services	-	-	
Service line clearance – overhead services requiring undergrounding	no. of services	-	-	
Replacement of SWER with ABC/underground cabling	no. of km	-	-	
Replacement of 22kV distribution feeders with ABC/underground cabling	no. of feeders		-	
		-	390	
Vibration Dampers	no. of spans		76	
Armour Rods	no. of sets		78	

## Table 2 Bushfire related expenditure (volumes)

Variance	Reasons for variance
-	-
-	-
-	-
(11)	JEN has completed the program ahead of schedule. All SWER has been removed from the JEN network as of February 2013.
1	JEN plans to complete a trial installation of a REFCL (Rapid Earth Fault Current Limiter) in this 5-year period. Cost incurred in 2013 is associated with the request for tender process that has been undertaken.
-	-
-	-
-	-
-	-
-	-
-	-
10	JEN is ahead of target with the steel conductor replacement program in the Hazardous Bushfire Risk Area (HBRA) for the 3 year period (2011 to 2013).
-	-
-	-
-	JEN did not propose replacement of SWER with ABC/underground cabling.
-	JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
(390)	This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post Revised EDPR submission. This program is on target to be completed in 2014.
(76)	This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post Revised EDPR submission. This program is on target to be completed in 2014.

Asset group	Units	AER expected volumes	Actual Units	Variance	Reasons for variance
Planned non-preferred services replacements	no. of services	6,000	4,615	1,385	JEN has replaced 4,615 non-preferred services in 2013. JEN has identified the specific services that will be targeted for replacement and is well advanced with the associated works planning in order to achieve the obligation over the 5 year period.
Planned replacement of non-preferred services due to height	no. of services	341	1,735	(1,394)	JEN has replaced 1,735 non-preferred services due to height in 2013. JEN has identified the specific services that will be targeted for replacement and is well advanced with the associated works planning in order to achieve the obligation over the 5 year period.
Removal of public lighting switchwire	no. of spans removed	1,700	2,077	(377)	JEN has exceeded the annual target and is on target to achieve the 5 year target.
Replacement of existing SWER lines with 22kV overhead bare conductor	no. of kms of SWER	-	-	-	-
Installation of GFN and associated equipment at zone substations	no. of zone substations	-	-	-	-
		567	314	253	JEN identified and replaced 314 crossarms/insulator sets in the targeted pole fire mitigation area in 2013. JEN is on target to achieve the 5 year target.
Replacement of crossarms/insulator sets – pole top fire mitigation Replacement of crossarms – based on age and condition	no. of crossarms/sets	2,823	4,098		JEN is on track to deliver the AER's approved volume in the 5-year period. In 2013 JEN continued to inspect assets in accordance with the Asset Inspection Manual and replace crossarms based on condition. The number of crossarms replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities.
Replacement of poles – based on age and condition	no. of poles	259	395		JEN is on track to deliver the AER's approved volume in the 5-year period. In 2013 JEN continued to inspect assets in accordance with the Asset Inspection Manual and replace poles based on condition. The number of poles replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities.
Stake poles – based on age and condition	no. of poles	223	405	(182)	JEN is on track to deliver the AER's approved volume in the 5-year period. In 2013 JEN continued to inspect assets in accordance with the Asset Inspection Manual and to stake poles based on condition.
Replacement of undersized poles	no. of poles	277	75	202	In 2013, JEN replaced 75 undersized poles and performed the necessary design for the replacement of additional undersized poles. The design has identified a higher number of undersized poles being suitable for staking, therefore reducing the number of poles that we be replaced in 2014. When the total volume of undersized poles that have been replaced and staked is considered, the two programs address undersized poles is ahead of target.
Stake undersized poles	no. of poles	220	702	(482)	JEN is on track to deliver the AER's approved volume in the 5-year period.
Replacement of overhead conductor – mainly steel	no. of kms	-	-	-	-
		57	48	9	This activity is focussed on achieving compliance to the 2010 Electric Line Clearance Regulations. Under this activity category it was identified that the bulk of work was required on LV mains. As such, in 2013, JEN has relocated 48 services and have replaced 1 pole, offset 2 crossarms and replaced 2 bays of LV with 35mm service cable.
Service line clearance – overhead services requiring relocation Service line clearance – overhead services requiring undergrounding	no. of services	14	-	14	In 2013 JEN completed the works described above. There has not been a requirement to underground any services in order to achieve compliance.
Replacement of SWER with ABC/underground cabling	no. of km	-	-	-	JEN did not propose replacement of SWER with ABC/underground cabling.
Replacement of 22kV distribution feeders with ABC/underground cabling	no. of feeders	-	-	-	JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
Distribution Transformer Height Rectification	no. of Distribution Transformers	-	-	-	The AER has not explicitly provided for this program of works in its final determination
Zone Substation Earth Grid replacements	no. of Zone Substation	-	-	-	The AER has not explicitly provided for this program of works in its final determination
Trial of Neutral Condition Monitor	no. of customers	5,000	-	5,000	JEN has not progressed this project in 2013 due to inability to source a commercial product for the trial.

Table 3 Safety related other - ESL, non ESL and ESMS (volumes)

 Table 4
 Bushfire related expenditure (\$ nominal - excluding margins and overheads)

Asset group	Category	AER expected expenditure (\$'000 2010)	Actual (\$'000 nominal)	Variance (\$'000 nominal)	Reasons for variance
Planned non-preferred services replacements		-	-		
Planned replacement of non-preferred services due to height	0	-	-		<mark>-</mark> -
Removal of public lighting switchwire	0	-	-		-
Replacement of existing SWER lines with 22kV overhead bare conductor	Bushfire	461	1,842	(1,342	2) The construction work commenced in late December 2012 and was completed in 2013.
Installation of GFN and associated equipment at zone substations	Bushfire	875	21	92	9 JEN plans to complete a trial installation of a REFCL (Rapid Earth Fault Current Limiter) in this 5-year period. Cost incurred in 2013 is associated with the request for tender process that has been undertaken.
Replacement of crossarms/insulator sets – pole top fire mitigation	0	-	-		
Replacement of crossarms – based on age and condition	0	-	-		
Replacement of poles – based on age and condition	0	-	-		<mark>-</mark> -
Stake poles – based on age and condition	0	-	-		<mark>-</mark> -
Replacement of undersized poles	0	-	-		<mark>-</mark> -
Stake undersized poles	0	-	-		<mark>-</mark> -
Replacement of overhead conductor – mainly steel	Bushfire	1,248	484	87	<sup>0</sup> JEN identified fewer km of conductor in 2013 that require replacement than forecast, however JEN is ahead of target with the steel conductor replacement program in the Hazardous Bushfire Risk Area (HBRA) for the 3 year period (2011 to 2013).
Service line clearance – overhead services requiring relocation	0	-	-		
Service line clearance – overhead services requiring undergrounding	0	-	-		<mark>-</mark> -
Replacement of SWER with ABC/underground cabling	0	-	-		- JEN did not propose replacement of SWER with ABC/underground cabling.
Replacement of 22kV distribution feeders with ABC/underground cabling	0	-	-		- JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
Vibration Dampers	Bushfire	-	234	(234	This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post Revised EDPR submission. The cost for Vibration Damper and Armour Rod are collected as one project, JEN is unable to separate these costs.
Armour Rods	Bushfire	-	-		This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post - Revised EDPR submission. The cost for Vibration Damper and Armour Rod are collected as one project, JEN is unable to separate these costs.

Note - Reported expenditure is to be entered EXCLUSIVE of any overheads, profit margins or management fees paid directly or indirectly to related party contractors for the report period.

Asset group	Category	AER expected expenditure (\$'000 2010)	Actual (\$'000 nominal)
Planned non-preferred services replacements	ESMS	1,823	4,407
Planned replacement of non-preferred services due to height	ESMS	104	-
Removal of public lighting switchwire	ESMS	306	467
Replacement of existing SWER lines with 22kV overhead bare conductor	0	-	-
Installation of GFN and associated equipment at zone substations	0	-	-
Replacement of crossarms/insulator sets – pole top fire mitigation	ESMS	1,372	1,036
Replacement of crossarms – based on age and condition	ESMS	5,292	2,614
Replacement of poles – based on age and condition	ESMS	1,288	2,910
Stake poles – based on age and condition	ESMS	164	535
Replacement of undersized poles	ESMS	1,265	791
Stake undersized poles	ESMS	161	882
Replacement of overhead conductor – mainly steel	0	-	-
Service line clearance – overhead services requiring relocation	ESMS	17	93
Service line clearance – overhead services requiring undergrounding	ESMS	71	-
Replacement of SWER with ABC/underground cabling	0	-	-
Replacement of 22kV distribution feeders with ABC/underground cabling	0	-	-
Distribution Transformer Height Rectification	ESMS	-	78
Zone Substation Earth Grid replacements	ESMS	-	194
Trial of Neutral Condition Monitor	ESMS	-	-

## Table 5 Safety related other - ESL, non ESL and ESMS (\$ nominal - excluding margins and overheads)

Note - Reported expenditure is to be entered EXCLUSIVE of any overheads, profit margins or management fees paid directly or indirectly to related party contractors for the report period.

## Table 6 Bushfire related expenditure (\$ nominal - margins and overheads)

Asset group	Category	AER expected expenditure (\$'000 2010)	Actual (\$'000 nominal)	Variance (\$'000 nominal)	Reasons for variance
Planned non-preferred services replacements	0	-	-	-	-
Planned replacement of non-preferred services due to height	0	-	-	-	-
Removal of public lighting switchwire	0	-	-	-	-
Replacement of existing SWER lines with 22kV overhead bare conductor	Bushfire	26	297	(268)	As per Table 4
Installation of GFN and associated equipment at zone substations	Bushfire	50	3	51	As per Table 4
Replacement of crossarms/insulator sets – pole top fire mitigation	0	-	-	-	-
Replacement of crossarms – based on age and condition	0	-	-	-	-
Replacement of poles – based on age and condition	0	-	-	-	-
Stake poles – based on age and condition	0	-	-	-	-
Replacement of undersized poles	0	-	-	-	-
Stake undersized poles	0	-	-	-	-
Replacement of overhead conductor – mainly steel	Bushfire	72	78	(0)	As per Table 4
Service line clearance – overhead services requiring relocation	0	-	-	-	-
Service line clearance – overhead services requiring undergrounding	0	-	-	-	-
Replacement of SWER with ABC/underground cabling	0	-	-	-	-
Replacement of 22kV distribution feeders with ABC/underground cabling	0	-	-	-	-
Vibration Dampers	Bushfire	-	<u>}</u> 38	(38)	As per Table 4
Armour Rods	Bushfire	-	J -	-	As per Table 4

Note -Reported expenditure to be entered is the sum of overheads, profit margins or management fees paid directly or indirectly to related party contractors for the report period.

 Table 7
 Safety related other - ESL, non ESL and ESMS (\$ nominal - margins and overheads)

Asset group	Category	AER expected expenditure (\$'000 2010)	Actual (\$'000 nominal)	Variance (\$'000 nominal)	Reasons for variance
Planned non-preferred services replacements	ESMS	105	ר 710	(597)	As per Table 5
Planned replacement of non-preferred services due to height	ESMS	6	J -	6	As per Table 5
emoval of public lighting switchwire	ESMS	18	75	(56)	As per Table 5
eplacement of existing SWER lines with 22kV overhead bare conductor		-	-	-	-
nstallation of GFN and associated equipment at zone substations		-	-	-	-
Replacement of crossarms/insulator sets – pole top fire mitigation	ESMS	79	167	(81)	As per Table 5
Replacement of crossarms – based on age and condition	ESMS	304	421	(91)	As per Table 5
Replacement of poles – based on age and condition	ESMS	74	469	(389)	As per Table 5
take poles – based on age and condition	ESMS	9	86	(76)	As per Table 5
Replacement of undersized poles	ESMS	73	128	(49)	As per Table 5
take undersized poles	ESMS	9	142	(132)	As per Table 5
Replacement of overhead conductor – mainly steel		-	-	-	-
ervice line clearance – overhead services requiring relocation	ESMS	1	15	(14)	As per Table 5
ervice line clearance – overhead services requiring undergrounding	ESMS	4	-	4	As per Table 5
eplacement of SWER with ABC/underground cabling		-	-	-	-
eplacement of 22kV distribution feeders with ABC/underground cabling		-	-	-	-
Distribution Transformer Height Rectification	ESMS	-	13	(13)	As per Table 5
one Substation Earth Grid replacements	ESMS	-	31	(31)	As per Table 5
rial of Neutral Condition Monitor	ESMS	-	-	-	As per Table 5

Variance (\$'000 nominal)	Reasons for variance
(2,429)	Although JEN has replaced 6,350 non-preferred services in 2013, which is on target with a forecast volume of 6341, the cost of the program is greater than the expected expenditure. This is a result of the unit rate being higher than the allowance.
112	JEN is unable to report on the actual cost (and volumes) for this item separately in 2013 as the data is not collected separately. The cost is included in the above item.
(134)	JEN commenced the first year of the targeted removal program in 2012 as planned and the program continued throughout 2013. The cost is higher than forecast as a result of the higher volume being completed.
_	
-	-
453	JEN identified and replaced 314 crossarms/insulator sets in the targeted pole fire mitigation area in 2013 compared with a target of 567. JEN is on track to meet its 5 year target.
	In 2013 JEN continued to inspect assets in accordance with the Asset Inspection Manual and replace crossarms based on condition. The number of crossarms replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities. Replacing crossarms as part of a network augmentation project will result in the cost of the crossarm replacement being captured as part of the network augmentation project and is unable to be separately identified. Therefore, the total expenditure shown is not representative of the replacement volume shown above.
(1,512)	JEN identified 395 poles that required replacement in 2013 compared with a seasonalised forecast of 259 poles. The actual unit rate was higher than the allowance. The number of poles replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities. Replacing poles as part of a network augmentation project will result in the cost of the pole replacement being captured as part of the network augmentation project and is unable to be separately identified. Therefore, the total expenditure shown is not representative of the replacement volume shown above.
(357)	JEN identified and staked 405 poles in 2013 compared with a seasonalised forecast of 223 poles. The actual unit rate was higher than the allowance.
	In 2013, JEN replaced 75 undersized poles and performed the necessary design for the replacement of additional undersized poles. The design has identified a higher number of undersized poles being suitable for staking, therefore reducing the cost of poles that will be replaced in 2013.
(707)	In 2013, JEN staked 702 undersized poles. A portion of the cost incurred in 2013 was due to undersized poles that were staked in late 2012.
-	
(74)	This activity is focussed on achieving compliance to the 2010 Electric Line Clearance Regulations. Under this activity category it was identified that a portion of the work was required on LV mains. As such, in 2013, JEN has relocated 48 services, replaced 1 pole, installed 2 offset crossarms and replaced 2 bays of LV with 35mm service cable.
77	In 2013 JEN completed the works described above. There has not been a requirement to underground any services in order to achieve compliance.
-	JEN did not propose replacement of SWER with ABC/underground cabling.
_	JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
(78)	The AER has not explicitly provided for this program of works in its final determination
· · · ·	The AER has not explicitly provided for this program of works in its final determination
-	JEN has not progressed this project in 2013 due to inability to source a commercial product for the trial.

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### Table 8 Bushfire related expenditure (\$ unit cost)

Asset group	Category	AER expected expenditure (\$'000 2010)	Actuai (\$'000 nominai)	Variance (\$'000 nominal)	Reasons for variance
Planned non-preferred services replacements		0	0		
Planned replacement of non-preferred services due to height		0	0		
Removal of public lighting switchwire		0	0		
Replacement of existing SWER lines with 22kV overhead bare conductor	Bushfire				Construction work was completed in 2013. The majority of the cost incurred in 2013 was for construction works. Cost for design, community consultation and initiation phase of the project were incurred in prior years.
Installation of GFN and associated equipment at zone substations	Bushfire				No actual unit rate. Construction work is planned to commence in 2015.
Replacement of crossarms/insulator sets - pole top fire mitigation		0	0		
Replacement of crossarms – based on age and condition		0	0		
Replacement of poles – based on age and condition	AND IN THE REAL PROPERTY OF TH	0	0		
Stake poles – based on age and condition		0	0		
Replacement of undersized poles	1949	0	0		
Stake undersized poles		0	0		
Replacement of overhead conductor – mainly steel	Bushfire			2	The actual unit rate is the total project cost of conductor replacement, inclusive of the cost of pole top structures that require replacement at the time. The unit rate will vary 20 depending on the complexity of the specific project and the length of the conductor replacement. Higher proportion of longer length projects has been experienced in 2013 resulting in more efficient project delivery.
Service line clearance – overhead services requiring relocation		0	0		a a
Service line clearance - overhead services requiring undergrounding		0	0		
Replacement of SWER with ABC/underground cabling		0	0		JEN did not propose replacement of SWER with ABC/underground cabling.
Replacement of 22kV distribution feeders with ABC/underground cabling		0	0		JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
Vibration Dampers	Bushfire				This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post Revised EDPR submission.
Armour Rods	Bushfire				This is an ESV directive which was a part of the Victorian Bushfires Royal Commission recommendation. This directive was given post Revised EDPR submission.

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### Table 9 Safety related other - ESL, non ESL and ESMS (\$ unit cost)

Asset group	Category	AER expected expenditure (\$'000 2010)	Actual (\$'000 nominal)	Variance (\$'000 nominal)	Reasons for variance
Planned non-preferred services replacements	ESMS			(1)	This unit rate is the average rate to replace services. JEN is unable to report on the unit rates separately for this category and replacements due to height in 2013 as the data is not collected separately.
Planned replacement of non-preferred services due to height	ESMS			(1)	This unit rate is the average rate to replace services. JEN is unable to report on the unit rates separately for this category and replacements due to height in 2013 as the data is not collected separately.
Removal of public lighting switchwire				(0)	The unit rate reduced as expected in 2013 compared with 2012 as a result of completing a larger volume of removals in 2013. The unit rate is higher than forecast because the project cost includes the surveying of the network to
Replacement of existing SWER lines with 22kV overhead bare conductor	ESMS	C	Q		identify the switchwire locations.
Installation of GFN and associated equipment at zone substations		0	0		-
Replacement of crossarms/insulator sets – pole top fire mitigation	ESMS			(1)	The actual unit rate varies depending on the proportion of complex pole top structures that were completed in 2013.
Replacement of crossarms – based on age and condition	ESMS			(1)	The number of crossarms replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities. Replacing crossarms as part of a network augmentation project will result in the cost of the crossarm replacement being captured as part of the network augmentation project and is unable to be separately identified. Therefore, the actual unit cost shown is based on detailed examination of a number of replacement work orders undertaken in 2013.
Replacement of poles – based on age and condition	ESMS				The number of poles replaced due to age and condition can be initiated by network augmentation activities and is not limited to asset replacement activities. Replacing poles as part of a network augmentation project will result in the cost of the pole replacement being captured as part of the network augmentation project and is unable to be separately identified. Therefore, the actual unit cost shown is based on detailed examination of a number of replacement work orders undertaken in 2013. The actual unit rate will vary depending on the ratic of subtransmission, high voltage, low voltage and public lighting poles that require replacement. This means that if there is a high proportion of complex poles, particularly high voltage, the unit rate will be higher than forecast. Higher proportion of complex pole structures has been experienced in 2013.
Stake poles – based on age and condition	ESMS				The actual unit rate will vary depending on the strength of the poles and this, in general is related to the ratio of subtransmission, high voltage, low voltage and public lighting poles that require staking. This means that if there is a higher than forecast proportion of high voltage poles to be staked then the unit rate will be higher than forecast. Higher proportion of high voltage poles has been staked in 2013.
Replacement of undersized poles	ESMS			-	The actual unit rate will vary depending on the ratio of subtransmission, high voltage, low voltage and public lighting poles that require replacement. This means that if there is a high proportion of complex poles, particularly high voltage, the unit rate will be higher than forecast. Higher proportion of complex pole structures has been experienced in 2013.
Stake undersized poles	ESMS				The actual unit rate will vary depending on the strength of the poles and this, in general is related to the ratic of subtransmission, high voltage, low voltage and public lighting poles that require staking. This means that if there is a higher than forecast proportion of high voltage poles to be staked then the unit rate will be higher than forecast. Higher proportion of high voltage poles has been staked in 2013.
Replacement of overhead conductor – mainly steel Service line clearance – overhead services requiring relocation	ESMS	0	O	-	To ensure compliance it has been necessary for JEN to relocate and replace assets other than overhead services. In 2013, JEN has relocated 48 services, replaced 1 pole, installed 2 offset crossarms and replaced 2 bays of LV with 35mm service cable. The relocation and replacement work will continue throughout 2014.
Service line clearance – overhead services requiring undergrounding	ESMS			-	In 2013 JEN completed the works described above. There has not been a requirement to underground any services in order to achieve compliance.
Replacement of SWER with ABC/underground cabling		C	٥		JEN did not propose replacement of SWER with
Replacement of 22kV distribution feeders with ABC/underground cabling		C	C		ABC/underground cabling. JEN did not propose replacement of 22kV distribution feeders with ABC/underground cabling.
Distribution Transformer Height Rectification	ESMS				This unit rate was not calculated for 2013 as the cost incurred was for further survey and design work.
Zone Substation Earth Grid replacements	ESMS			(49)	The actual unit rate will vary depending on the degree of complexity associated with the works required to achieve the earth grid requirements. This unit rate is based on average cost per work site performed during 2013.
Trial of Neutral Condition Monitor	ESMS				JEN has not progressed this project in 2013 due to inability to source a commercial product for the trial.

Table 10 Safety improvement outcomes reported to ESV (volumes)

Asset group	Units	Safety Improvement Programme - outcomes	Safety Improvement Target	Variance	Reasons for variance
Planned non-preferred services replacements	no of services	4.615	6,000	(1 385)	As per Table 3
Planned replacement of non-preferred services due to height	no. of services	1,735	341		As per Table 3
Removal of public lighting switchwire	no. of spans removed	2.077	1,700		As per Table 3
Replacement of existing SWER lines with 22kV overhead bare conductor	no. of kms of SWER	14	3		As per Table 2
nstallation of GFN and associated equipment at zone substations	no. of zone substations		1		As per Table 2
Replacement of crossarms/insulator sets – pole top fire mitigation	no of crossarms/sets	314	567		As per Table 3
Replacement of crossarms – based on age and condition	no. of crossarms	4.098	2.823		As per Table 3
Replacement of poles – based on age and condition	no. of poles	395	259		As per Table 3
take poles - based on age and condition	no. of poles	405	223		As per Table 3
eplacement of undersized poles	no. of poles	75	277		As per Table 3
take undersized poles	no. of poles	702	220		As per Table 3
eplacement of overhead conductor – mainly steel	no of kms	12	22		As per Table 2
ervice line clearance – overhead services requiring relocation	no of services	48	57	(9)	As per Table 3
Service line clearance – overhead services requiring undergrounding	no. of services	-	14		As per Table 3
eplacement of SWER with ABC/underground cabling	no of km	-	-		As per Table 3
Replacement of 22kV distribution feeders with ABC/underground cabling	no of feeders	-	-		As per Table 3
listribution Transformer Height Rectification	no of Distribution Transformers		_		As per Table 3
ibration Dampers	no of spans	390			As per Table 2
rmour Rods	no. of sets	76	-		As per Table 2
one Substation Earth Grid replacements	no. of Zone Substation	-	-	-	As per Table 3
rial of Neutral Condition Monitor	no. of customers	-	5,000		As per Table 3

## Table 11 Reconciliation of safety improvement outcomes reported to ESV and AER (volumes)

Asset group	Units	Variance	Reasons for variance
lanned non-preferred services replacements	no. of services	1,385	As per Table 3
lanned replacement of non-preferred services due to height	no. of services	(1,394)	As per Table 3
emoval of public lighting switchwire	no. of spans removed	(377)	As per Table 3
eplacement of existing SWER lines with 22kV overhead bare conductor	no. of kms of SWER	(11)	As per Table 2
stallation of GFN and associated equipment at zone substations	no. of zone substations	1	As per Table 2
eplacement of crossarms/insulator sets – pole top fire mitigation	no. of crossarms/sets	253	As per Table 3
eplacement of crossarms – based on age and condition	no. of crossarms	(1,275)	As per Table 3
eplacement of poles – based on age and condition	no. of poles	(136)	As per Table 3
ake poles – based on age and condition	no. of poles	(182)	As per Table 3
eplacement of undersized poles	no. of poles	202	As per Table 3
ake undersized poles	no. of poles	(482)	As per Table 3
eplacement of overhead conductor – mainly steel	no. of kms	10	As per Table 2
ervice line clearance – overhead services requiring relocation	no. of services	9	As per Table 3
ervice line clearance – overhead services requiring undergrounding	no. of services	14	As per Table 3
eplacement of SWER with ABC/underground cabling	no. of km	-	As per Table 3
eplacement of 22kV distribution feeders with ABC/underground cabling	no. of feeders	-	As per Table 3
stribution Transformer Height Rectification	no. of Distribution Transformers	-	As per Table 3
bration Dampers	no. of spans	(390)	As per Table 2
rmour Rods	no. of spans	(76)	As per Table 2
one Substation Earth Grid replacements	no. of Zone Substation	-	As per Table 3
rial of Neutral Condition Monitor	no. of customers	5,000	As per Table 3

 Table 12
 Bushfire-related expenditure - approved under pass-through applications (volumes)

Asset group	Units	As approved under pass through applications	Actual Units	Variance	Reasons for variance
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	hfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	hfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire∖[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable

Table 13 Bushfire-related expenditure pass-through applications (\$ nominal - excluding margins and overheads)

Category i.e., bushfire			Variance (\$'000 nominal)	Reasons for variance
<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	C	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY2(	C	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY2(	C	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	C	Not Applicable
		Category       I.e.,       pass through         bushfire       (\$'000 nominal) <dnsp appropriate="" as="" input="" to="">       Infre UEN - RIN O         <dnsp appropriate="" as="" input="" to="">       Infre UEN - RIN O         <dnsp appropriate="" as="" input="" to="">       Infre UEN - RIN O</dnsp></dnsp></dnsp>	Category       I.e., bushfire       pass through (\$'000 nominal)       Actual (\$'000 nominal) <dnsp appropriate="" as="" input="" to="">       Mire JEN - RIN C       Bushfire JEN - RIN C         <dnsp appropriate="" as="" input="" to="">       Mire JEN - RIN C       Bushfire JEN - RIN C         <dnsp appropriate="" as="" input="" to="">       Mire JEN - RIN C       Bushfire JEN - RIN C</dnsp></dnsp></dnsp>	Category       I.e., bushfire       pass through (\$'000 nominal)       Actual (\$'000 nominal)       Variance (\$'000 nominal) <dnsp appropriate="" as="" input="" to="">       thre/JEN_RINO       Bushfre/JEN_RINO       00         <dnsp appropriate="" as="" input="" to="">       thre/JEN_RINO       Bushfre/JEN_RINO       00         <dnsp appropriate="" as="" input="" to="">       thre/JEN_RINO       Bushfre/JEN_RINO       00         <dnsp appropriate="" as="" input="" to="">       thre/JEN_RINO       Bushfre/JEN_RINO       00</dnsp></dnsp></dnsp></dnsp>

 Table 14
 Bushfire-related expenditure pass-through applications (\$ nominal - margins and overheads)

Asset group	Category i.e., bushfire	As approved under pass through (\$'000 nominal)	Actual (\$'000 nominal)	Variance (\$'000 nominal)	Reasons for variance
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire\[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable
<dnsp appropriate="" as="" input="" to=""></dnsp>	<dnsp appropriate="" as="" input="" to=""></dnsp>	shfire∖[JEN - RIN C	Bushfire\[JEN - RIN CY20	0	Not Applicable

JEN's explanatory notes:

1 Tables 12 - 14

These three tables are not applicable as JEN did not have any pass-through applications for 2013.

2 Unit rate information (both AER determination and actual) is confidential to JEN because public disclosure could jeopardise JEN's commercial position in future negotiations with prospective service providers. This applies to all unit rate data.

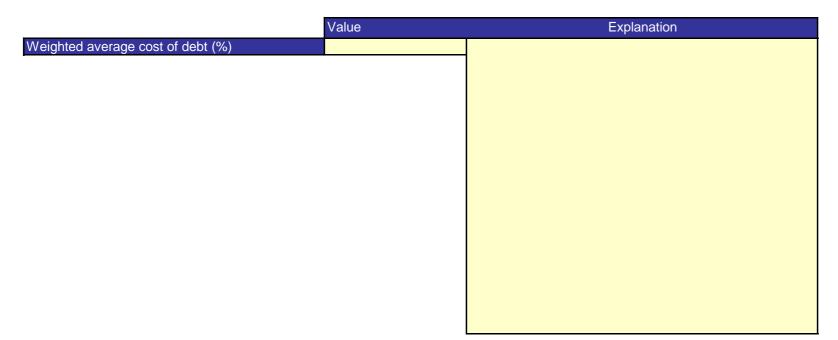


## Jemena Electricity Networks (Vic) Limited Cost of Debt 2013

No longer required as advised by AER Staff Explanatory notes are not applicable

**Instructions:** Enter the required data in the yellow cells.

Table 1 Cost of debt





## JEN Unmetered Supply Tariff Quantity Data Template (Actual t-2) 2013

Contonto		Qt-2		
Contents		 NMIs	Meters	Lights
	Proposed tariff	ActVolComp1	ActVolComp2	ActVolComp3
	metering data services - unmetered supplies	-	-	69,628

Appendix 1-1 JEN RIN-A CY13 Appendix B - RAS 17022014.xlsx



Contents	Tariffs t-2
	Residential - General Purpose Residential - Flexible
	Residential - Time of Use Interval Meter
	Residential - TOU
	Residential - Off Peak Only
	Small Business - General Purpose
	Small Business - TOU Weekdays
	Small Business - TOU Weekdays Demand
	Small Business - TOU Extended
	Small Business - TOU Extended Demand
	Small Business - Unmetered Supply
	Large Business - LV 0.4 - 0.8 GWh
	Large Business – LVEN Annual Consumption <= 0.8 GWh Large Business - LV 0.8+ - 2.2 GWh
	Large Business - LVEN 0.8+ - 2.2 GWh
	Large Business - LV 2.2+ - 6.0 GWh
	Large Business -LVEN 2.2+ - 6.0 GWh
	Large Business - LVMS 2.2+ - 6.0 GWh
	Large Business - LV 6.0+ GWh
	Large Business - LVEN 6.0+ GWh
	Large Business - LVMS 6.0+ GWh Large Business - HV
	Large Business – HVEN Annual Consumption <= 10 GWh
	Large Business - HVRF
	Large Business- HVEN 10+ GWh
	Large Business - HV Ann Cons >= 55GWh
	Large Business - Subtransmission
	Large Business - Subtransmission MA
	Large Business - Subtransmission EG

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Fixed	PkBlk1	PkBlk2	PkBlk3	PkBlk4	OPkBlk1	OPkBlk2	OPkBlk3	OPkBlk4	DemBlk1	DemBlk2	DemBlk3	DemBlk4	Fixed	PkBlk1	PkBlk2	PkBlk3
21.190	7.447	-	-	-	-	-	-	-	-	-	-	-	267,819	1,126,991,924	-	-
21.190	12.267	8.192	12.267	8.192	3.888	3.888	-	-	-	-	-	-	145	62,688	91,299	107,8
21.190	12.041	-		-	1.973	-	-	-	-	-		-	15,330	32,756,053	-	10/7
37.930	8.950	-	-	-	1.620	-	-	2	-	-	2	-	1,779	6,903,791	-	
-	-	-	-	-	1.620	_	_	_	-	_	_	_	-	0,903,791		
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84.430	10.119	_	-	_	1.690	_	_	_				-	14,859	188,824,529	-	
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84.430	8.924				1.736	-	-	-	58.709	-	-	-	487	55,490,527	-	
		-	-	-	1.852		-	-	-	-	-	-	2,527	47,546,409	-	
69.530	4.601	-	-	-	1.898	-	-	-	58.709	-	-	-	132	22,895,934	-	
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1,564.890	1.761	-	-	-	0.584	-	-	-	102.507	-	-	-	27	4,779,313	-	
2,576.550	1.134	-		-	0.559	2	-	-	90.145	_	_	_	357	276,824,494		
2,576.550	1.146	-	-	_	0.559	_	_	_	92.384		_	_	22		-	
3,935.960	1.050	-	-	_	0.416	-	-	_	88.923					15,244,123		
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					0.416	-	-	-	88.923	-	-	-	10	16,289,771	-	
1,967.970	1.039	-	-	-	0.416	-	-	-	61.467	- 1	-	-	16	12,308,677	-	
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_	91,600	141,291	-	-	-	_	-	-	3,082	7,690	7,479	13,225	13,499	3,561
	34,180,144	-	-	-	-	-	_	-	324,843	3,944,156		-	-	674,374
-	7,787,856	-	-	-	-	-	-	-	67,492	617,889	-	-	-	126,163
-	47,649,324	-	-	-			-	-	-	-	-	-	-	771,919
-		-	-	-	-		-	-	885,451	16,135,056	-	-	-	-
	120,360,640	-	-	-	-	-	-	-	683,176	19,109,458 3,155,191		-	-	2,034,095
	39,573,172	-	-		39,678	-	-	-	33,886	3,155,191	-	-	-	686,990
	15,335,221 6,681,548		-	-	-	-	-	- 1	213,319	4,243,042	-	-		284,008
	35,933,170				13,971	-	-	-	9,156	1,053,442	-	-	-	126,816
-	117,319,081				146,435	_	-	-	1 206 002	1,728,037 3,187,210	-	-	-	600,084
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-	194,834,531	-	-	-	171,109	_	_		919,765	3,139,190	-	-	_	19,433 1,089,125
	10,875,830	-	-	-	11,090	-	_	-	57,178	174,698	_		_	60,796
	87,456,968	-	-	-	60,337	12		-	254,673	1,213,636	_	-	_	363,821
-	11,331,149	-	-	-	9,102	-		-	38,475	171,043	-	-	-	47,138
	8,482,780	-			12,189	-		-	30,641	127,887	-	-		35,288
-	38,246,383	-	-	-	21,427	-		-	77,622	452,285	-	-		138,069
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	211,012,072			-	161,012			-	189,103	1,956,588	-	-	-	389,735
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ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev
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-	-	-		1773	-	-	21,826,72
		-	2,329,473	-			6,205,54
-		-	-	-	-	-	4,740,36
-	-	-	820,250			-	2,009,66
-	-	-	-	-	-	-	2,328,12
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-			628,486				
-	-	-	15,424,662		-	-	774,72
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Content

## JEN Tariff Quantity Data Template (Actual t-2) Transmission Tariff Revenue 2013

1		Transm
1	Tariffs t-2	(t-2) Fix
	Residential - General Purpose Residential - Flexible Residential - Time of Use Interval Meter	
	Residential - TOU Residential - Off Peak Only	
	Small Business - General Purpose Small Business - TOU Weekdays	
	Small Business - TOU Weekdays Demand Small Business - TOU Extended	
	Small Business - TOU Extended Demand Small Business - Unmetered Supply	
	Large Business - LV 0.4 - 0.8 GWh Large Business – LVEN Annual Consumption <= 0.8 GWh	
	Large Business - LV 0.8+ - 2.2 GWh Large Business - LVEN 0.8+ - 2.2 GWh	
	Large Business - LV 2.2+ - 6.0 GWh Large Business -LVEN 2.2+ - 6.0 GWh	
	Large Business - LVMS 2.2+ - 6.0 GWh Large Business - LV 6.0+ GWh	
	Large Business - LVEN 6.0+ GWh Large Business - LVMS 6.0+ GWh	
	Large Business - HV Large Business – HVEN Annual Consumption <= 10 GWh	
	Large Business - HVRF Large Business- HVEN 10+ GWh	
	Large Business - HV Ann Cons >= 55GWh Large Business - Subtransmission	
	Large Business - Subtransmission MA Large Business - Subtransmission EG	2

smission	Tariffs (F	Pt-2)										
t-2)Tar Fixed	(t-2)Tar PkBlk1	(t-2)Tar PkBlk2	(t-2)Tar PkBlk3	(t-2)Tar PkBlk4	(t-2)Tar OPkBlk1	(t-2)Tar	(t-2)Tar OPkBlk3	(t-2)Tar OPkBlk4	(t-2)Tar DemBlk1	(t-2)Tar DemBlk2	(t-2)Tar DemBlk3	(t-2)Tar DemBlk4
Fixed 4	РКВІК І 1	-	PKBIK3 -	PKBIK4	-	OPkBlk2 -	UPKBIK3	UPKBIK4	DemBik I	DemBik2		
4	1	0	1	0	0	0	-	-	-	-	-	-
4 6	1 2	-	-	-	0 1	-	-	-	-	-	-	-
-	-	-	-	-	1	-	-	-	-	-	-	-
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200	2 1	-	-	-	1	-	-	-	- 5	-	-	_
31	2	-	-	-	1	-	-	-		-	-	-
200	1 1	-	-	-	1 1	-	-	-	- 5	-	-	-
419	2	-	-	-	1	-	-	-	4	-	-	-
419 1,050	2 2	-	-	-	1 1	-	-	-	4 4	-	-	-
1,050	2	-	-	-	1	-	-	-	4	-	-	-
2,345	2 2	-	-	-	1	-	-	-	5	-	-	-
2,345 2,345	2 3	-	-	-	1 1	-	-	-	6 5	-	-	-
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4,909 4,909	2 2	-	-	-	1 1	-	-	-	5 5	-	-	-
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9,644 9,644	2	-	-	-	1	-	-	-	6	-	-	_
10,031	2	-	-	-	1	-	-	-	5	-	-	-
26,032 26,032	2 2	-	-	-	0 0	-	-	-	4 4	-	-	-
9,992	2	-	-	-	0	-	-	-	4	-	-	-

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	Actual Quanti												
	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol
	Fixed	PkBlk1	PkBlk2	PkBlk3	PkBlk4	OPkBlk1	OPkBlk2	OPkBlk3	OPkBlk4	DemBlk1	DemBlk2	DemBlk3	
	267,819	1,126,991,924			100 Total	24-1 2	-	-	-	-	-	-	
	145	62,688	91,299	107,807	164,784	91,600	141,291	-	-		-	-	-
	15,330	32,756,053	17.0°	8 <del>.</del> 8	-	34,180,144	-		1 - C	2	1		1.0
	1,779	6,903,791		•	-	7,787,856	-	-					1.1
	44.050	-	-			47,649,324	-	-	S=0		-	-	
	14,859	188,824,529	-	-	-	3.53	-	-	( - )	-	-	-	
	8,092	188,847,300	-	-	820	120,360,640	-	-	0.00	-	-	-	
	487	55,490,527	-	· · ·		39,573,172	-	1.1	-	39,678	-	-	
	2,527	47,546,409	-	-		15,335,221	( - ) - )	1.1	2.4		-	-	
	132	22,895,934	-			6,681,548	2 - S - S	-		13,971	-	2	1
	-	17,875,625	-	-	-	35,933,170	-	-	-	-	-	-	123
	771	185,087,710	-	-	5	117,319,081	-		1 H I	146,435	-	-	-
	27	4,779,313	-	-	-	3,327,484			(25)	6,131	-		-
	357	276,824,494	-	-	-	194,834,531	-	-	0.73	171,109		-	
	22	15,244,123	-	-	-	10,875,830	-		121	11,090		-	
	65	115,584,420	-	-	-	87,456,968		-	-	60,337	1 A A A A A A A A A A A A A A A A A A A	-	-
	10	16,289,771		·7	-	11,331,149			(a=1)	9,102		-	_
	16	12,308,677		5		8,482,780		3-0 L	( <b>-</b> )	12,189			-
	15	44,385,222	-	-	-	38,246,383	1	( <del>*</del> )	1.00	21,427		-	
	-		-	-	-	-			1 1 - P	~		-	-
	33	58,412,415	-	-	-	45,835,251	-	-	-	31,911	-	-	-
	70	255,429,228	-	-	-	211,812,672	-	-		161,012	-		-
	5	50,763,933	AND A DECK					COLUMN STREET			REALIZED		
	5	50,765,955	-	5	22	44,835,455	-	-	-	23,644		-	12
	at the second	A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY AND A REAL PROPERTY AND A REAL PRO			CONTRACTOR OF THE OWNER	-	-	-	(**)	-	(H)		
[										COLUMN STATES			
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L	312,568	2,950,000,165	91,299	107,807	164,784	1,303,138,146	141,291	-	-	806,359	-	-	



Page: 2 of 3

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ActRev	nue (P-2)*(C	(t-2)											
	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev
Fixed	PkBlk1	PkBlk2	PkBlk3	PkBlk4	OPkBlk1	OPkBlk2	OPkBlk3	OPkBlk4	DemBlk1	DemBlk2	DemBlk3	DemBlk4	Total
,116,806	11,044,521	-	-	-	-	OTROIRE	OTKDIKJ	OFROINT	DEIIDIKI	Dembikz	Dembiks	Dellibik4	
607	768	185	1,321	335		215	1	-		-	-	-	12,161,32
63,926	475,290	- 105	1,521		139	215		-	5	10		-	3,56
				-	107,667		2 <b>-</b> 2	-	-	-	1.00		646,8
11,264	115,708	-	10 <b>-</b> 01		68,767	-		-	-	-	-		195,7
	-	-	1.5	-	318,297		2 <b>-</b> 2	240	-	<u> 1</u>		-	318,29
90,343	2,443,389	-	-	-	-			2-2		-	1.00	-	2,533,7
247,523	3,306,716		-	-	941,220	-	-				-	-	
97,685	831,248	2			318,168				105 115	-		-	4,495,4
77,288				-		2899 C	100		195,416	-	100		1,442,5
	738,871	-	-	-	125,135	-	-	-		-		-	941,2
26,394	291,694	-	-	-	54,922	-	-	-	68,809	-	-	-	441,8
-	147,831	-		-	297,167	3.40	5-0		and a start of			_	444,9
322,794	4,242,210	-	-	-	1,015,983		-	240	577,978		100	-	
11,404	100,987		-	_	28,816								6,158,9
374,978	6,569,045		<u>(</u>			-		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	24,200	-		-	165,4
				-	1,642,455	100	-	0.586	767,255	-	0.45	( <b>-</b> )	9,353,7
23,311	330,188	-	-	-	91,683	-	-	255	49,726	-	200	( - )	494,9
151,708	2,837,598		-	-	766,998	242		121	326,604	_	-		4,082,9
22,920	318,302	- /	-	-	98,241	523	121		56,024	<u> </u>		-	
36,506	315,102				73,376	1000	1000	100					495,4
74,400	933,421								65,980	-	-		490,9
/4,400	555,421			-	331,596	-	-		115,535	-	-	-	1,454,9
		-	-	-	-	(55)	(**)	678	-	-	-	2.4	-
160,649	1,252,362	-	-	-	397,392	15-11	-		172,063	-			1,982,4
670,770	6,025,575	-	-	1	1,550,469	-	-	-	1,036,756	-			9,283,5
	TOWNER CONTRACTOR		CALCULATION OF THE OWNER		1000/100			STATISTICS.	1,050,750	and the second se			9,203,3
48,220	1,197,521			-	328,196	-			152 242	-			1 706 4
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Contents

### JEN TUoS cost audit template (t-2) 2013

TUOS charges (AEMO)			1	t-2 actual
				52,087,488.24
			Total	52,087,488.24
Fransmission connection fees (SPI P	owernet)		1	-2 actual
	ervices charge ervices charge			6,047,022.03 2,329,642.44
			Total	8,376,664.47
Cross boundary network charges (int	ernetwork charges)			-2 actual
	<b>J</b>	Amount (payab		
Distribution Business	HV crossings	Subtransmission crossings	TUoS Adjustment	Total
CitiPower Powercor	1,929,823.67 363,876.91	-34,379.05 5,027,870.18	1,225,569.11 0.00	3,121,013.73 5,391,747.09
SP AusNet	-2,823,080.00	107,835.33	-346,026.00	-3,061,270.67
Το	tal			5,451,490.15
ayments to embedded generators			t	-2 actual
woided transmission costs				
			Total	0.00
voided TUoS usage charges				

Where the following definitions apply

Total payments to embedded generators

Total

HV Crossings Sub-transmission Crossings TuoS Adjustment

Payments/Receipts for energy transferred utilising the distributor's HV and LV line assets. Payments/Receipts for the Sub-transmission assets in shared loops that support each distributor's Zone Substation capacity to ensure N-1 reliability is maintained. Payments/Receipts for the adjustment of TuoS paid by a distributor for energy delivered to another distribution business through a shared loop.

## JEN Tariff Quantity Data Template (Actual t-2) Jurisdictional Scheme Tariff Revenue 2013

Conte

2013	<b>Jurisdictio</b>	nal Schon	oo Tariffe	(D+ 2)									
Tariff (t-2)	(t-2)Tar Fixed		(t-2)Tar PkBlk2		(t-2)Tar PkBlk4	(t-2)Tar OPkBlk1	(t-2)Tar OPkBlk2	(t-2)Tar OPkBlk3	(t-2)Tar OPkBlk4	(t-2)Tar DemBlk1	(t-2)Tar DemBlk2	(t-2)Tar DemBlk3	(t-2)T DemBl
Residential - General Purpose Residential - Flexible	-	0.3 0.3	-	- 0.3	- 0.3	- 0.3	- 0.3	-	-	-	-	-	-
Residential - Time of Use Interval Meter Residential - TOU	-	0.3 0.3	-	-	-	0.3 0.3	-	-	-	-	-	-	-
Residential - Off Peak Only	-	- 0.3	-	-	-	0.3	-	-	-	-	-	-	-
Small Business - General Purpose Small Business - TOU Weekdays	-	0.3	-	-	-	- 0.3		-	-	-		-	-
Small Business - TOU Weekdays Demand Small Business - TOU Extended	-	0.3 0.3			-	0.3 0.3		-	-	-		-	-
Small Business - TOU Extended Demand Small Business - Unmetered Supply	-	0.3 0.3	-	-	-	0.3 0.3	-	-	-	-	-	-	-
Large Business - LV 0.4 - 0.8 GWh	-	0.3	-	-	-	0.3	-	-	-	-	-	-	-
Large Business – LVEN Annual Consumption <= 0.8 GWh Large Business - LV 0.8+ - 2.2 GWh	-	0.3 0.3	-	-	-	0.3 0.3	-	-	-	-	-	-	-
Large Business - LVEN 0.8+ - 2.2 GWh Large Business - LV 2.2+ - 6.0 GWh	-	0.3 0.3		-	-	0.3 0.3		-	-	-	-	-	· ·
Large Business -LVEN 2.2+ - 6.0 GWh Large Business - LVMS 2.2+ - 6.0 GWh	-	0.3 0.3		-	-	0.3 0.3		-	-	-	-	-	
Large Business - LV 6.0+ GWh	-	0.3	-	-	-	0.3	-	-	-	-	-	-	
Large Business - LVEN 6.0+ GWh Large Business - LVMS 6.0+ GWh	-	0.3 0.3	-	-	-	0.3 0.3		-	-	-	-	-	-
Large Business - HV Large Business – HVEN Annual Consumption <= 10 GWh	-	0.2 0.2		-	-	0.2 0.2	-	-	-	-	-	-	-
Large Business - HVRF	-	0.2	-	-	-	0.2	-	-	-	-	-	-	
Large Business- HVEN 10+ GWh Large Business - HV Ann Cons >= 55GWh	-	0.2		-	-	0.2	-	-	-	-	-	-	
Large Business - Subtransmission Large Business - Subtransmission MA	-	0.1 0.1	-		-	0.1 0.1	-	-	-	-	-	-	-
Large Business - Subtransmission EG	-	0.1	-	-	-	0.1	-	-	-	-	-	-	-

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Actual Quantit ActVol	ActVol	Actival	A chi/-1									
Fixed		ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVol	ActVo
267,819	PkBlk1 1,126,991,924	PkBlk2	PkBlk3	PkBlk4	OPkBlk1	OPkBlk2	OPkBlk3	OPkBlk4	DemBlk1	DemBlk2	DemBlk3	DemBl
145	62,688	-	407 007			-	-	5	-	-	-	5
15,330		91,299	107,807	164,784	91,600	141,291	-	-	-		-	-
1,779	32,756,053	-	2	-	34,180,144	-	-	-	-		-	-
1,779	6,903,791				7,787,856	-	-	-			-	
		-	-	-	47,649,324		-	-		-	0.25	
14,859	188,824,529	-		-	-	) <del></del>	-		-	-	-	-
8,092	188,847,300	-	-	-	120,360,640	-	-	-	-	-		-
487	55,490,527	-	-	-	39,573,172	-	-	-	39,678	-		-
2,527	47,546,409	<b>7</b> )	-	-	15,335,221	-	2			-	-	
132	22,895,934			-	6,681,548	-	-	G 1	13,971			
-	17,875,625	5	-	-	35,933,170	-		-			100	
771	185,087,710		-		117,319,081	-	-	-	146,435	-		
27	4,779,313	-	-	2	3,327,484		-	-	6,131	-		
357	276,824,494	-	-	2	194,834,531		-	-	171,109	_		
22	15,244,123	-	-	-	10,875,830				11,090			
65	115,584,420	-	-	-	87,456,968	2	2		60,337			
10	16,289,771	-	-	-	11,331,149	-		-	9,102			
16	12,308,677	-	-	-	8,482,780	-		-	12,189		-	-
15	44,385,222	-		-	38,246,383					-	-	-
-	-		20	2	50,240,505				21,427	-		-
33	58,412,415	-	-		45,835,251			2	21 011			
70	255,429,228		-	_	211,812,672				31,911	-	1.00	
Contraction of the state of	A DESCRIPTION OF THE PARTY OF	A DE COMPANY OF A DESCRIPTION OF A DESCRIPANTA DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIO	CALL OF THE REAL PROPERTY OF	States and states of the state	211,012,072	Contraction of the local division of the loc		-	161,012	-	-	-1
5	50,763,933	-	-	-	44,835,455	-			22 644	Second States of Long St.		
-		_	_				-	-	23,644	-		-
No strange	A SACTOR DATE:	Size The State	IN A RECEIPTION OF THE	a descent of the second	COLUMN TWO IS NOT	CONCERNMENT AND	Contraction of the local division of the loc	A REAL PROPERTY.		-	-	-
212 562	2 050 000 100											
312,568	2,950,000,165	91,299	107,807	164,784	1,303,138,146	141,291	-	-	806,359	100	-	
						the second se						

File: Appendix 1-1 JEN RIN-A CY13 Appendix B - RAS 17022014 xlsx Worksheet: 33. Actual 1-2 Juris Revenue

.



ActRev	nue (P-2)*(Q ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActRev	ActDov	ActDou	L A at Days	1.10	4.15
Fixed	PkBlk1	PkBlk2	PkBlk3	PkBlk4	OPkBlk1	OPkBlk2			ActRev	ActRev	ActRev	ActRev	ActRev
TIACU	3,380,976	FRDIKZ	PKDIKJ	PKDIK4	OPKBIKI	OPKBIK2	OPkBlk3	OPkBlk4	DemBlk1	DemBlk2	DemBlk3	DemBlk4	Total
								-	1.5	-	-		3,380,
-	208	303	358	547	268	414	-	1.0	1.51	-	-		2,
-	108,750	-	-	-	100,148		-	5 <u>-</u> 5	-				208
-	22,921	-	-		22,818			-		2			45
-		-			139,613	-	-						139
-	575,915	-		-						2.5			139
	626,973	_		-	352,657				-	-			575
-	184,229			0		1.1	-		1. The second	-	-		979
		-	-		115,949	100	-	1.00			-	-	300
	157,854		-	-	44,932	121	-	-		-	-		202
-	76,015	3. <del></del> )	-		19,577	2.	1-1	-	-	-	-		95
-	59,347	()	-	2.42	105,284			-	-			-	164
-	579,325	-		-	343,745				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
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File: Appendix 1-1 JEN RIN-A CY13 Appendix B - RAS 17022014 xisx Worksheet: 33. Actual t-2 Juris Revenue



Content

## JEN Jurisdictional amount cost audit template 2013

	Jurisdictional scheme amounts	t-2 actual
ts		
	PFIT	6,489,105.70
	TFIT	2,965,128.10
	<dnsp for="" future="" insert="" schemes="" to=""></dnsp>	0.00
	Total	9,454,233.80

Where the following definitions applyPFITPremium feed-in tariff paymentsTFITTransitional feed-in tariff payments

Appendix 1-1 JEN RIN-A CY13 Appendix B - RAS 17022014.xlsx

## Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-2

RIN template Appendix C – Non-financial information templates

Public



30 April 2014

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### Distribution Network Service Provider Annual reporting template

This template is to be used by a DNSP to fulfil its annual reporting obligations to the AER.

Colour coding of input sheets:	
Dark blue = AER instructions/headings	
Yellow = Input cells	
Grey - Not applicable/No inputs required	

Leave coloured cells blank if no information exists - PLEASE DO NOT ENTER TEXT unless specifically requested to do so. All dollar amounts are to be unrounded, and in nominal terms.

DNSP - trading name:	Jemena Electricity Networks (Vic) Limited
DNSP - Australian business number:	82 064 651 083
Reporting year:	2013

Business address	Address Suburb State	321 Ferntree Gully Road     Mt Waverley     VIC   Postcode     3149
Postal address	Address Suburb State	321 Ferntree Gully Road     Mt Waverley     VIC   Postcode     3149
Contact name/s Contact phone/s Contact email address/s	Robert McMillan 03 8544 9053 robert.mcmillan@jemena.com.au	

	Electricity Distribution Netw ervice Provider Annual Rep Table of contem	orting
Cover Sheet Cover sheet		
1. Service Target Performance Incentive Sche	eme 2. Demand	6. Outages
1a. STPIS - Reliability	2. Demand	6a. Planned Outages
1b. STPIS - Customer Service	3. Asset Installation	6b. Annual Feeder Reliability
1c. STPIS - Daily Performance	3. Asset Installation	6c. Cause of Outages
1d. STPIS - MED Threshold	4. Customer Service 4. Customer Services	
1e. STPIS - Exclusions	5. General Information	
	5. General Information	

#### Jemena Electricity Networks (Vic) Limited STPIS Data Reporting 2013 Reliability

Table 1: SAIDI (System Average Interruption Duration Index)

		Ne	twork categoris	ation	
Unplanned SAIDI <sup>1 (refer note)</sup>	CBD	Urban	Rural short	Rural long	Whole network
Total		64.67	114.42		66.66
Total (after removing excluded events and MED)		57.51	114.39		59.79

Table 2: SAIFI (System Average Interruption Frequency Index)

		Network categorisation							
Unplanned SAIFI <sup>2 (refer note)</sup>	CBD	Urban	Rural short	Rural long	Whole network				
Total		1.12	2.42		1.18				
Total (after removing excluded events and MED)		1.06	2.42		1.11				

Table 3: MAIFI (Momentary Average Interruption Frequency Index)

		Ne	twork categoris	ation	
MAIFI <sup>3</sup> (refer note)	CBD	Urban	Rural short	Rural long	Whole network
Total		0.71	2.39		0.78
Total (after removing excluded events and MED)		0.70	2.39		0.77

Table 4: Planned outages

		Net	work categoris	ation	
Planned outages	CBD	Urban	Rural short	Rural long	Whole network
SAIDI		21.79	66.87		23.59
SAIFI		0.08	0.27		0.09

#### Table 5: Average distribution customer numbers

	CBD	Urban	Rural short	Rural long	Whole network
Customer numbers at the start of period		306,645	12,721		319,366
Customer numbers at the end of period		305,483	12,811		318,294
Average distribution customer numbers	0	306,064	12,766	0	318,830

Note - the AER's Electricity distribution network service providers, Service target performance incentive scheme, November 2009, p. 22, defines SAIDI and SAIFI as follows; 1) Unplanned SAIDI - The sum of the duration of each unplanned sustained customer interruption (in minutes) divided by the total number of distribution customers. Unplanned SAIDI excludes

 2) Unplanned SAIFI - The total number of unplanned sustained customer interruptions divided by the total number of distribution customers. Unplanned SAIFI excludes momentary interruptions (one The AER will apply the ESCV's definition of MAIFI for transitional reasons. The ESCV's Information specification (Service performance) for Victorian Electricity Distributors, 1 January 2009, p. 30, 3) MAIFI - The total number of momentary interruptions divided by the total number of distribution customers (where the distribution customers are network or per feeder based, as appropriate).
 4) Total includes the impact of excluded events and MED.



# Jemena Electricity Networks (Vic) Limited STPIS Data Reporting - AER Definitions

2013

**Customer service** 

Table 1: Telephone answering

Telephone answering	Total	Total after removing MED
Number of calls received	76,248	74,599
Number of calls answered within 30 seconds	47,151	46,960
Percentage of calls answered within 30 seconds	61.84%	62.95%

Note: Telephone answering has the same meaning as defined in the Electricity DNSPs' STPIS, November 2009.

### Table 2: New connections

Note: This is for newly energised properties only 

New connections	Total
Number of new connections	7,409
Number of new connections not provided on or before the agreed date	5
Percentage of new connections not provided on or before the agreed date	0.07%

### Table 3: Streetlight repair

Note: Streetlight repair has the same meaning as defined in the Electricity DNSPs' STPIS, November 2009

Streetlight repair	Total
Total number of	
streetlights	69,058
Total number of	
streetlight faults	
	3,054
Total number of	
streetlight faults	
reported by person who	
is the occupier of an	
immediately	952
neighbouring residence or is the proprietor of an	
immediately	
neighbouring business	
, ,	
Faulty streetlights not	
repaired within 2	2
business days of fault report or agreed date	
Percentage of faulty	
streetlights not repaired	
within 2 business days	0.07%
of fault report or agreed	
date	

#### Table 4 Guaranteed service levels - jurisdictional GSL scheme

Appointments (excluding AMI)		
Customer arranged appointments Central - number		3,629
Appointments not met within 15 minutes of agreed time - number		22
Appointments - GSL payments - number		22
Appointments - GSL payments - (\$)	\$	440.00
Appointments (AMI only)		
Customer arranged appointments Central - number		32,588
Appointments not met within 15 minutes of agreed time - number		1,180
Appointments - GSL payments - number		1,180
Appointments - GSL payments - (\$)	\$	23,600.00
Connections		
Connections made		7,409
Connections not made on agreed date		5
Connections - GSL payments - 1-4 day delay - number		3
Connections - GSL payments - 1-4 day delay - (\$)	\$	250.00
Connections - GSL payments - 5+ day delay - number		2
Connections - GSL payments - 5+ day delay - (\$)	\$	500.00
Reliability of supply		
Low reliability payments - 20 hours - number		340
Low reliability payments - 20 hours - (\$)	\$	34,000.00
Low reliability payments - 30 hours - number		28
Low reliability payments - 30 hours - (\$)	\$	4,200.00
Low reliability payments - 60 hours - number		0
Low reliability payments - 60 hours - (\$)	\$	-
Low reliability payments - 10 events - number		0
Low reliability payments - 10 events - (\$)	\$	-
Low reliability payments - 15 events - number		0
Low reliability payments - 15 events - (\$)	\$	-
Low reliability payments - 30 events - number	<u> </u>	0
Low reliability payments - 30 events - (\$)	\$	-
Low reliability payments - 24 momentary events - number		0
Low reliability payments - 24 momentary events - (\$)	\$	-
Low reliability payments - 36 momentary events - number		0
Low reliability payments - 36 momentary events - (\$)	\$	-
Street lights		00.050
Street lights		69,058 3.054
Street lights "out" during period	L	3,054
Street lights not repaired by "fix by" date Street lights not repaired in 2 business days		4
Street lights not repaired in 2 business days Street lights – number of business days to repair		3.3
Street lights – humber of business days to repair Street lights - GSL payments - number		3.3
		2
Street lights - GSL payments - (\$)	\$	20.00
Planned interruptions		
Planned interruptions - 4 business days notice not given	_	61
Total GSL payments made (\$)	\$	63,010.00

Instruction

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Table 1 Daily Performance Data (unplanned)

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15032013		0 0	00			000 0	00 0.00	00	60		0. 0.	00 00	20 20		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 Z	00 50	ND NO
16/03/2513	11	1 1	26		6	0.00 0	00 1.21	1	21		0.	01 0.6	21		0.0	0.00	0	0.01			0.01	0.01		0.00	0.00 0.0	0.0	21 24	65 60	80
16032012		2 0	02			00/ 0	0.02	0	22		0.	00 00	20	-	0.0	0 0.00	0	00 0.00			0.02	0.02		0.00	000 00	22 0.0	2 3	430	NO 1
1603-2013		0 0	00		5	000 0	0.00		00		0.0	00 00	20	-	0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	96 94 96	na 665	NO
2103/2013	8	ă õ	96			000 0	00 0.94	ő	9		0. 0.	01 0.0	2		0.0	0.00	ő	01 0.01			0.05	001		0.00	000 00	0.0	21 a	204	M0
220320-3		0 0	01			000 0	00 0.01	8	01		0	00 00	20		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 2 20 10	01 89	NO NO
24032515		0	07			000 0	00 0.07	0	67		0.	00 00	20		0.0	0.00	0	000			0.00	0.00		0.00	0.00 0.0	0.0	90 P	19 20	NO
26/23/25/5		20 G	00			000 0	00 0.00	0	.00		0	00 00	20		0.0	0.00	ő	00 0.00			0.00	0.00		0.00	000 00	20 0.0	2 2	09 199	NO
27032013	44	4 4	01			0.02 0	0.01	0	61		0.	00 00	8		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20 20	20 40	ND ND
26032013		0 0	00			000 0	00 0.00	ő	00		0. 0.	00 00	20		0.0	0.00	ő	00 0.00			0.00	0.00		0.00	000 00	0.0	20	65 57	M0
20032013		2 0	12		11	186 11	ac 0.58 00 0.00	8	59		0	00 00	20		0.2	0 0.00	0	00 0.01			0.00	0.00		0.00	000 00	20 0.0	20 1	10 A4	M0
104/2012	01		21			000 0	00 0.20	0	20		0	00 00	0		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20 20	45 A	40 10
2042013		2 6	02			000 0	00 0.00	0	02		0	00 00	20		0.0	0.00	ő	00 000			0.00	0.00		0.00	000 00	20 0.0	20 1	60 55	NO
4042013		4 0	14			223 12	0.13		12		0.	00 00	90 14		0.0	0 0.00	0	00 0.00			0.05	0.01		0.00	000 00	21 0.0	2 2	62 298	NO NO
664/2012 704-2012	01	0	32		5	000 0	00 0.21	0	21		0	01 05	2		0.0	0.00	0	00 001			0.00	0.00		0.00	000 00	0.0	10	5	NO
6042013			.01		2	000 0	00 0.01	0	61		0	00 00	20		0.0	0.00	ő	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 Z	20 507	NO
604/2113		0 0	20		9	000 0	00 0.19		19		0.	00 00	00		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	00 00	64 422	M0
10642013		2 0	00			000 0	00 0.00	00	00		0. 0.	00 00	20 20		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 20	44 GG	40 1
12042013	14	12 1	02		5	000 0	0.96		69		0.0	01 00	21	-	0.0	0.00	0	01 0.01			0.00	0.00		0.00	000 00	0.0	x6 ×	04 433 83	NO
1404/2013		2 Ö	02			000 0	00 0.00	ő	0		0. 0.	00 00	20		0.0	0.00	ő	00 0.00			0.00	6.00		0.00	000 60	00	20 20	45 65	M0
15/04/2013		0 0	00			000 0	00 0.00		00		0.	00 00	90 90		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	0 2	62 80	NO NO
1704/2012	01	8 0	09			001 0	0.09	0	09		0.	00 0.0	20		0.0	0.00	0	00 0.00			0.01	0.01		0.00	000 00	0.0	2 2	119 80	NO
1904/2013		0 0	00			000 0	00 0.00	00	60		0. 0.	00 00	20 20		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 Z	N 50	ND NO
20042013			01			0.00 0	0.00	0	00		0.	00 00		1	0.0	0.00	0	00 0.00	_		0.00	6.00		0.00	000 00	0.0	0 1	96 52 47	80
22054/2013	80	0 0	00			000 0	00 0.00	0	00		0) 0)	00 00	20		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	00 G	45 47	40
21042113	23	8 9	90		-	000 0	00 0.05	0	65		0.1	00 00	8	<u> </u>	0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20 X	64 998 05 545	40 40
2504(2)13	6	н 8	01			000 0	00 0.00	0	66		0.	00 0.0	0		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20	64 7	80
27562112	00	0 0	00	1	2	847 28	47 5.54	1	34		01	00 00	<u>.</u>	L	0.0	0.00	0	0.00			0.00	0.00		0.00	000 00	0.0	20 S	64 24	NO
2864/2015 0044/2015		0 0	00		5	0.00 0	00 0.00		00		0.	00 00		1	0.0	0.00	0	00 0.00	_		0.00	6.00		0.00	000 00	0.0	0	81 9 H2	NO
2004/2012	6	x 6	00			000 0	00 0.00	0	66		0	00 0.0	0		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20 20	25 77	NO
205210	00	0 0	00	1	8	000 0	0.00	0	00		0.0	00 00	00		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	2 2	66 A5	NO NO
1052013	41	и а	91		6	000 0	0.01	0	61		0.	00 0.0	20		0.0	0.00	0	00 0-00			0.00	6.00	_	0.00	000 00	0.0	10 N	en 44	80
5052010 5052010	00	0	00	1	1	000 0	0.54	0	14		0.0	00 00	00		0.5	0.10	0	00 0.00			0.00	6.00		0.00	000 00	0.0	20 G	90 <u>41</u>	NO
605-20+3 705-20+1		6 0	06		-	0.00	0.05	0	66		0	00 00	00		0.0	0.00	0	00 0.00	_		0.00	0.00		0.00	000 000	0.0	20 V	n2 547	80
405/2013	81	0 0	00			0.00 0	00 0.00	0	00		0.	00 00	ŝ		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0 20 0.0	20 0 00 0	44 54	45 C
1005213	23	0 9	00		5	000 4	0.30	8	22		01	00	8		0.0	0.00	0	00 0.01			0.05	0.01	_	0.00	000 00	0.0	2 2 20 4	87 S2	NO NO
11052015	01	0 0	00			0.00 0	00 0.00	0	00		0	00 00	8	-	0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	90 S	05 22	NO
1305-2013	81	0 0	00			001 0	01 0.00	0	66		0.	00 00	ŝ		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0 20 0.0	2 2	17 82	NÖ
14052013		H 0	01			0.00 0	00 0.01	0	61		0.	00 00	8		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	90 N	69 52	NO NO
16052013		8	02			000 0	0.11	8	60		0.	00 00	<u>.</u>	1	0.0	0.00	0	00 000			0.00	6.00		0.00	000 00	00	ŝ	H6 99	-
1705/2913		0 0	00		5	0.00 0.00	00 0.00		00		0.	00 00	0		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	0 4	44 2h	80
19052013		a 8	01		6	000 8	00 0.01	0	61		0) 0)	00 00	00		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	00	20	64 04	45
21052012	00		00	1	8	000 0	0.00	0	61		0.0	00 00	00		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	2 2	61 42	NO
2205/20+3		0 0	00		5	0.00	00 0.00		00		0.	00 00	0		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	0 5	22 42 47	NC NO
24052013		a 8	01			100	0.00	0	61		0) 0)	00 00	00		0.0	0.00	0	00 000			0.00	6.00		0.00	000 00	00	20 1	42 24	NO
20052112			05			000	0.01	0	66		01	00 00			0.0	0.00	0	00 0.00			0.00	6.00	_	0.00	000 00	0.0	8	02 97	NO
070520+1	41	4 8	01		,	0.00	00 0.01	0	66		0.	00 0.0	96		0.0	0.00	0	00 0.00			0.05	0.04		0.00	0.00 4.0	0.0	× ×	na 47	80
26052112	00	0 6 0	25	1		206 0	0.00	0	22		0.0	00 00	00		0.0	0.00	0	00 0.00			0.00	6.00		0.00	000 00	0.0	20 X	44 44	A01
2005/2115		2 0	02	1		000 0	00 0.00	0	00		01	00 00	8	1	0.0	9.00	0	00 0.00	-		0.00	0.00	_	0.00	000 00	8 0.0	0 0	44 60	NO 10
106/2112	-	0 0	13			000 0	00 0.12	0	12		0) 0)	00 00	20		0.0	0.00	0	00 0.00			0.01	0.01		0.00	000 00	0.0	21 4	64 204	40
2062213	23	0 0	10		-	007 0	07 0.10	0	10		0.1	00 00	8	<u> </u>	0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	0 5	51 58 55 900	NO NO
400/2010	81	1 O	01		-	000 0	00 0.01	0	61		0.	00 00	8		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	2 2	24 99	NO
606/2012			19			000	0.00	0	1		0	00 00	ŝ		0.0	0.00	0	00 000	_		0.00	0.00		0.00	000 00	20 0.0 20 0.0	2 2	55 D2	NO
2062213		0 0	10			000 0	00 0.00	0	10		0.1	00 00	90 90	<u> </u>	0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	0 2	23 89	NO NO
808/21/3	63	0 0	26			0.00 0	00 0.19	0	19		0	00 0.0	00		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 40	0.0	20	77 04	A40
1106-2013	00 A	4 2	10	1	5	0.00 0.00	0.04	0	15		0.0	00 0.0	8	1	0.0	0.01	0	00 0.00			0.00	0.00		0.00	000 00	20 0.0	20 40 20 97	ns 90	80
1208/2013	01	0 0	40		-	000 0	00 0.41	0	41		0.	01 00	X C		0.0	0.00	0	00 001			0.00	0.00		0.00	000 00	0.0	20 X	64 948	A0
14052215	01		01			0.00 0	0.4	0	61		0.	00 00	8		0.0	0.00	0	00 0.01			0.00	0.00		0.00	000 00	20 0.0 20 0.0	2 2	12 67	NO
15062113	23	0 0	00		-	000 0	00 0.00	0	60		0.1	00 00	8	<u> </u>	0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	8 1	88 20 68 55	ND NO NO
1706/2010	81	6 0	05		-	0.08 0	00 0.05	0	66		0.	00 00	8		0.0	0.00	0	00 0.00			0.00	0.00		0.00	000 00	0.0	20 2	68 587	NO
1905-2113	81	2 0	07			0.04 0	0.07	0	60		0	00 00	8		0.0	0 0.00	0	00 0.00			0.00	0.00		0.00	022 00	21 0.0	X 2	26 66	NO
000501+5	A1	4				0.00	0.54		4		01	on 0.0	×1		0.0	0.00	0	m + m			0.05	0.04		0.00	0.00 4/	20		89 82	80

Jemena Electricity Networks (Vic) Limited STPIS Data Reporting 2013 Daily Performance Data

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### Jemena Electricity Networks (Vic) Limited STPIS Data Reporting 2013 MED Threshold

### Table 1 MED Threshold

MED Threshold (Timed) year ending 31 December	5.05
Alpha - average of Ln(SAIDI)	-3.7005
Beta - Standard deviation of Ln(SAIDI)	2.1281
X Beta from the mean	2.5

### **Table 2 MED Calculation**

		Network SAIDI	
Date	Network SAIDI	(after removing	Ln (SAIDI)
Date	All events	excluded	LII (SAIDI)
		events)	
1/01/2008	0.021857	0.021857	-3.8232
2/01/2008	0.004939	0.004939	-5.3106
3/01/2008	0.038385	0.038385	-3.2601
4/01/2008	0.011284	0.011284	-4.4843
5/01/2008	0.098037	0.098037	-2.3224
6/01/2008 7/01/2008	0.005905	0.005905	-5.1319
8/01/2008	0.002595	0.002595	-5.9541 -4.0153
9/01/2008	1.116399	1.116399	0.1101
10/01/2008	0.465861	0.465861	-0.7639
11/01/2008	0.213797	0.213797	-1.5427
12/01/2008	0.005786	0.005786	-5.1523
13/01/2008	0.008309	0.008309	-4.7905
14/01/2008	0.002562	0.002562	-5.9669
15/01/2008	0.004111	0.004111	-5.4940
16/01/2008	0.001443	0.001443	-6.5409
17/01/2008	0.011092	0.011092	-4.5015
18/01/2008	7.005975	7.005975	1.9468
19/01/2008	3.419313	3.419313	1.2294
20/01/2008	0.991566	0.991566	-0.0085
21/01/2008	0.917587	0.917587	-0.0860
22/01/2008	0.807527	0.807527	-0.2138
23/01/2008	0.001870	0.001870	-6.2817
24/01/2008	0.007815	0.007815	-4.8517
25/01/2008	1.083334	1.083334	0.0800
26/01/2008	0.305036	0.305036	-1.1873
27/01/2008	0.002420	0.002420	-6.0241
28/01/2008	0.001539	0.001539	-6.4765
29/01/2008	0.476135	0.476135	-0.7421
30/01/2008 31/01/2008	0.042724	0.042724	-3.1530
1/02/2008	0.092059	0.092059	-2.3853 -5.4282
2/02/2008	0.274610	0.274610	-1.2924
3/02/2008	0.005807	0.005807	-5.1487
4/02/2008	0.028983	0.028983	-3.5411
5/02/2008	0.033503	0.033503	-3.3961
6/02/2008	0.002819	0.002819	-5.8713
7/02/2008	0.991063	0.991063	-0.0090
8/02/2008	0.003322	0.003322	-5.7071
9/02/2008	0.019308	0.019308	-3.9473
10/02/2008	0.000986	0.000986	-6.9218
11/02/2008	1.065384	1.065384	0.0633
12/02/2008	0.001337	0.001337	-6.6175
13/02/2008	0.268439	0.268439	-1.3151
14/02/2008	0.001188	0.001188	-6.7356
15/02/2008	0.005966	0.005966	-5.1217
16/02/2008	0.027060	0.027060	-3.6097
17/02/2008	0.208799	0.208799	-1.5664
18/02/2008	0.944913	0.944913	-0.0567
19/02/2008	0.146426	0.146426	-1.9212
20/02/2008	4.264538	4.264538	1.4503
21/02/2008 22/02/2008	0.022080	0.022080 0.047126	-3.8131 -3.0549
22/02/2008	0.047126	0.047126	
23/02/2008	0.004295	0.004295	-5.4503

24/02/2008	0.000718	0.000718	-7.2390
25/02/2008	0.054538	0.054538	-2.9089
26/02/2008	0.002058	0.002058	-6.1860
27/02/2008	0.001913	0.001913	-6.2593
28/02/2008	0.262023	0.262023	-1.3393
29/02/2008	0.198730	0.198730	-1.6158
1/03/2008	0.000529	0.000529	-7.5439
2/03/2008	0.000000	0.000000	
3/03/2008	0.061232	0.061232	-2.7931
4/03/2008	0.022046	0.022046	-3.8146
5/03/2008	0.573404	0.573404	-0.5562
6/03/2008	0.000519	0.000519	-7.5629
7/03/2008	0.035381	0.035381	-3.3416
8/03/2008	0.000794	0.000794	-7.1385
9/03/2008	0.043615	0.043615	-3.1323
10/03/2008	0.401616	0.401616	-0.9123
11/03/2008	0.003639	0.003639	-5.6160
12/03/2008	0.000576	0.000576	-7.4601
13/03/2008	0.022889	0.022889	-3.7771
14/03/2008	0.731037	0.731037	-0.3133
15/03/2008	0.002782	0.002782	-5.8845
16/03/2008	0.166604	0.166604	-1.7921
17/03/2008	1.363078	1.363078	0.3097
18/03/2008	0.004086	0.004086	-5.5003
19/03/2008	0.004088	0.004088	
20/03/2008	0.002111	0.002111	-6.1608
			-6.5717
21/03/2008	0.001552	0.001552	-6.4685
22/03/2008	0.033906	0.033906	-3.3842
23/03/2008	0.661869	0.661869	-0.4127
24/03/2008	1.323979	1.323979	0.2806
25/03/2008	0.095084	0.095084	-2.3530
26/03/2008	0.001128	0.001128	-6.7872
27/03/2008	0.003325	0.003325	-5.7064
28/03/2008	0.001651	0.001651	-6.4065
29/03/2008	0.001482	0.001482	-6.5143
30/03/2008	0.002038	0.002038	-6.1959
31/03/2008	0.003639	0.003639	-5.6160
1/04/2008	0.001842	0.001842	-6.2971
2/04/2008	48.190170	48.190170	3.8752
3/04/2008	0.082019	0.082019	-2.5008
4/04/2008	0.018757	0.018757	-3.9762
5/04/2008	0.832927	0.832927	-0.1828
6/04/2008	0.359224	0.359224	-1.0238
7/04/2008	0.015169	0.015169	-4.1885
8/04/2008	0.203825	0.203825	-1.5905
9/04/2008	0.013265	0.013265	-4.3226
10/04/2008	0.023825	0.023825	-3.7370
11/04/2008	0.015083	0.015083	-4.1942
12/04/2008	0.248232	0.248232	-1.3934
13/04/2008	0.038783	0.038783	-3.2498
14/04/2008	0.015685	0.015685	-4.1551
15/04/2008	0.049670	0.049670	-3.0024
16/04/2008	1.181733	1.181733	0.1670
17/04/2008	0.071624	0.071624	-2.6363
18/04/2008	0.016330	0.016330	-4.1148
19/04/2008	0.001762	0.001762	-6.3412
20/04/2008	0.013784	0.013784	-4.2843
21/04/2008	0.026275	0.026275	-3.6391
22/04/2008	0.002995	0.002995	-5.8106
23/04/2008	0.127107	0.127107	-2.0627
24/04/2008	0.061636	0.061636	-2.7865
25/04/2008	0.019305	0.019305	-3.9474
26/04/2008	0.003058	0.003058	-5.7899
27/04/2008	0.514701	0.514701	-0.6642
	0.403098	0.403098	-0.9086
28/04/2008		0.044774	-3.1061
28/04/2008 29/04/2008	0.044774	0.044774	
	0.044774 0.046189	0.046189	-3.0750
29/04/2008			-3.0750 -4.0738
29/04/2008 30/04/2008	0.046189	0.046189	
29/04/2008 30/04/2008 1/05/2008	0.046189 0.017012	0.046189 0.017012	-4.0738
29/04/2008 30/04/2008 1/05/2008 2/05/2008	0.046189 0.017012 0.004241	0.046189 0.017012 0.004241	-4.0738 -5.4630
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008	0.046189 0.017012 0.004241 0.003699	0.046189 0.017012 0.004241 0.003699	-4.0738 -5.4630 -5.5998
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 4/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221	0.046189 0.017012 0.004241 0.003699 0.002221	-4.0738 -5.4630 -5.5998 -6.1097
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 4/05/2008 5/05/2008 6/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 4/05/2008 5/05/2008 6/05/2008 7/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715
29/04/2008 30/04/2008 2/05/2008 3/05/2008 4/05/2008 5/05/2008 6/05/2008 7/05/2008 8/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158
29/04/2008 30/04/2008 1/05/2008 3/05/2008 3/05/2008 5/05/2008 6/05/2008 8/05/2008 8/05/2008 8/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.028895 0.002357	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 5/05/2008 6/05/2008 8/05/2008 8/05/2008 9/05/2008 10/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215
29/04/2008 30/04/2008 1/05/2008 2/05/2008 4/05/2008 5/05/2008 6/05/2008 8/05/2008 9/05/2008 9/05/2008 10/05/2008 11/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.0026895 0.0026895 0.002357 0.001626 0.021937	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196
29/04/2008 30/04/2008 1/05/2008 3/05/2008 5/05/2008 6/05/2008 6/05/2008 8/05/2008 8/05/2008 9/05/2008 10/05/2008 11/05/2008 12/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.0028895 0.007662 0.0028895 0.0028957 0.001626 0.021937 0.025709	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609
29/04/2008 30/04/2008 2/05/2008 3/05/2008 5/05/2008 6/05/2008 6/05/2008 8/05/2008 9/05/2008 10/05/2008 11/05/2008 11/05/2008 13/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.028895 0.002357 0.001626 0.021937 0.025709 0.024367	0.046189 0.017012 0.003699 0.002221 0.001765 0.002889 0.007662 0.028895 0.002357 0.001626 0.021937 0.025709 0.024367	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609 -3.7145
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 6/05/2008 6/05/2008 8/05/2008 8/05/2008 10/05/2008 11/05/2008 11/05/2008 13/05/2008 13/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609 -3.7145 -4.0409
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 5/05/2008 6/05/2008 8/05/2008 8/05/2008 10/05/2008 11/05/2008 13/05/2008 13/05/2008 14/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581 0.002674	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581 0.002674	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609 -3.7145 -4.0409 -5.9242
29/04/2008 30/04/2008 1/05/2008 3/05/2008 3/05/2008 5/05/2008 6/05/2008 8/05/2008 9/05/2008 10/05/2008 11/05/2008 13/05/2008 13/05/2008 13/05/2008 15/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.0026895 0.0026895 0.0021937 0.021937 0.022709 0.024367 0.017581 0.002674 1.290236	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.00257 0.001626 0.021937 0.025709 0.024367 0.017581 0.002674 1.290236	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609 -3.7145 -4.0409 -5.9242 0.2548
29/04/2008 30/04/2008 1/05/2008 2/05/2008 3/05/2008 5/05/2008 6/05/2008 8/05/2008 8/05/2008 10/05/2008 11/05/2008 13/05/2008 13/05/2008 14/05/2008	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581 0.002674	0.046189 0.017012 0.004241 0.003699 0.002221 0.001765 0.002889 0.007662 0.026895 0.002357 0.001626 0.021937 0.025709 0.024367 0.017581 0.002674	-4.0738 -5.4630 -5.5998 -6.1097 -6.3396 -5.8469 -4.8715 -3.6158 -6.0505 -6.4215 -3.8196 -3.6609 -3.7145 -4.0409 -5.9242

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21/05/2008	0.003001	0.003001	-5.8087
22/05/2008	0.001444	0.001444	-6.5400
23/05/2008	0.139491	0.139491	-1.9698
24/05/2008	0.029807	0.029807	-3.5130
25/05/2008	0.003854	0.003854	-5.5586
26/05/2008	0.000486	0.000486	-7.6295
27/05/2008	0.012765	0.012765	-4.3610
28/05/2008	0.025676	0.025676	-3.6622
29/05/2008	0.009291	0.009291	-4.6787
30/05/2008	0.631457	0.631457	-0.4597
31/05/2008	0.098482	0.098482	-2.3179
1/06/2008	0.002134	0.002134	-6.1496
2/06/2008	0.710803	0.710803	-0.3414
3/06/2008	0.990908	0.990908	-0.0091
4/06/2008	0.036038	0.036038	-3.3232
5/06/2008	0.823779	0.823779	-0.1939
6/06/2008	0.056974	0.056974	-2.8652
7/06/2008	0.008676	0.008676	-4.7472
8/06/2008	0.042834	0.042834	-3.1504
9/06/2008	0.001421	0.001421	-6.5567
10/06/2008	0.069009	0.069009	-2.6735
11/06/2008	0.021699	0.021699	-3.8305
12/06/2008	0.001804	0.001804	-6.3178
13/06/2008	0.076248	0.076248	
14/06/2008	0.076248	0.041344	-2.5738 -3.1858
15/06/2008	0.024372	0.041344	-3.1858
16/06/2008	0.465411	0.465411	
17/06/2008	0.465411	0.465411	-0.7648
18/06/2008	0.021481	0.021481	-3.8406
			-6.1328
19/06/2008 20/06/2008	0.008970	0.008970 0.023910	-4.7139 -3.7335
21/06/2008			
	0.001877	0.001877	-6.2783
22/06/2008	0.004804	0.004804	-5.3384
23/06/2008	0.018362	0.018362	-3.9974
24/06/2008	0.230565	0.230565	-1.4672
25/06/2008	0.661821	0.661821	-0.4128
26/06/2008	0.001850	0.001850	-6.2925
27/06/2008	0.001103	0.001103	-6.8093
28/06/2008	0.001318	0.001318	-6.6315
29/06/2008	0.007463	0.007463	-4.8978
30/06/2008	4.701794	4.701794	1.5479
1/07/2008	0.174547	0.174547	-1.7456
2/07/2008	0.004972	0.004972	-5.3039
3/07/2008	0.003437	0.003437	-5.6731
4/07/2008	0.060408	0.060408	-2.8066
5/07/2008	0.019292	0.019292	-3.9481
6/07/2008	0.008013	0.008013	-4.8267
7/07/2008	0.002034	0.002034	-6.1978
8/07/2008	0.007680	0.007680	-4.8692
9/07/2008	0.370843	0.370843	-0.9920
10/07/2008	0.007016	0.007016	-4.9595
11/07/2008	0.002608	0.002608	-5.9490
12/07/2008	0.002275	0.002275	-6.0858
13/07/2008	0.002225	0.002225	-6.1078
14/07/2008	0.038831	0.038831	-3.2485
15/07/2008	0.462131	0.462131	-0.7719
16/07/2008	0.016102	0.016102	-4.1288
17/07/2008	0.005279	0.005279	-5.2439
18/07/2008	0.012074	0.012074	-4.4167
19/07/2008	0.009407	0.009407	-4.6664
20/07/2008	0.012860	0.012860	-4.3536
21/07/2008	0.006676	0.006676	-5.0092
22/07/2008	0.052262	0.052262	-2.9515
23/07/2008	0.016816	0.016816	-4.0855
24/07/2008	0.909748	0.909748	-0.0946
25/07/2008	0.020570	0.020570	-3.8839
26/07/2008	0.014531	0.014531	-4.2315
27/07/2008	0.022243	0.022243	-3.8057
28/07/2008	0.061841	0.061841	-2.7832
29/07/2008	0.029989	0.029989	-3.5069
30/07/2008	0.530661	0.530661	-0.6336
31/07/2008	0.335376	0.058905	-2.8318
1/08/2008	0.003916	0.003916	-5.5428
2/08/2008	0.001994	0.001994	-6.2176
3/08/2008	0.005583	0.005583	-5.1881
4/08/2008	0.003764	0.003764	-5.5824
5/08/2008	0.008564	0.008564	-4.7602
6/08/2008	0.023041	0.023041	-3.7705
0/08/2008	0.010000	0.012889	-4.3514
7/08/2008	0.012889		
	0.002387	0.002387	-6.0377
7/08/2008		0.002387 0.042649	-6.0377 -3.1548
7/08/2008 8/08/2008	0.002387		
7/08/2008 8/08/2008 9/08/2008	0.002387 0.042649	0.042649	-3.1548
7/08/2008 8/08/2008 9/08/2008 10/08/2008	0.002387 0.042649 0.030258	0.042649 0.030258	-3.1548 -3.4980

14/08/2008	1.124486	1.124486	0.1173
15/08/2008	0.001311	0.001311	-6.6372
16/08/2008	0.002093	0.002093	-6.1691
17/08/2008	0.092151	0.092151	-2.3843
18/08/2008	0.027534	0.027534	-3.5923
19/08/2008	0.001449	0.001449	-6.5366
20/08/2008	0.003493	0.003493	-5.6570
21/08/2008	0.116387	0.116387	-2.1508
22/08/2008	0.027142	0.027142	-3.6067
23/08/2008	0.050803	0.050803	-2.9798
24/08/2008	0.019003	0.019003	-3.9631
25/08/2008	0.003701	0.003701	-5.5992
26/08/2008	0.001512	0.001512	-6.4943
27/08/2008	0.155097	0.155097	-1.8637
28/08/2008	0.640528	0.640528	-0.4455
29/08/2008	0.025946	0.025946	-3.6517
30/08/2008	0.588044	0.588044	-0.5310
31/08/2008	0.878842	0.878842	-0.1292
1/09/2008	0.001779	0.001779	-6.3317
2/09/2008	0.000947	0.000947	-6.9620
3/09/2008	0.019710	0.019710	-3.9266
4/09/2008	0.237085	0.237085	-1.4393
5/09/2008	0.036849	0.036849	-3.3009
6/09/2008	0.036849	0.036849	
			-2.3335
7/09/2008	0.000000	0.000000	2 5000
8/09/2008	0.027433	0.027433	-3.5960
9/09/2008	0.009429	0.009429	-4.6639
10/09/2008	0.001521	0.001521	-6.4881
11/09/2008	0.020994	0.020994	-3.8635
12/09/2008	0.130228	0.130228	-2.0385
13/09/2008	0.001304	0.001304	-6.6426
14/09/2008	0.000604	0.000604	-7.4120
15/09/2008	0.197438	0.197438	-1.6223
16/09/2008	0.039301	0.039301	-3.2365
17/09/2008	0.005928	0.005928	-5.1281
18/09/2008	0.001970	0.001970	-6.2295
19/09/2008	0.001535	0.001535	-6.4794
20/09/2008	0.016446	0.016446	-4.1077
21/09/2008	0.001828	0.001828	-6.3043
22/09/2008	0.421457	0.421457	-0.8640
23/09/2008	0.030120	0.030120	-3.5026
24/09/2008	0.216247	0.216247	-1.5313
25/09/2008	0.003588	0.003588	-5.6303
26/09/2008	0.012443	0.012443	-4.3866
27/09/2008	0.002716	0.002716	-5.9085
28/09/2008	0.018918	0.018918	-3.9676
29/09/2008	0.002535	0.002535	-5.9777
30/09/2008	0.032034	0.032034	-3.4410
1/10/2008	0.001716	0.001716	-6.3678
2/10/2008	0.033053	0.033053	-3.4096
3/10/2008	0.054119	0.054119	-2.9166
4/10/2008	0.000828	0.000828	-7.0962
5/10/2008	0.051928	0.051928	-2.9579
6/10/2008	0.010569	0.010569	-4.5498
7/10/2008	0.011232	0.011232	-4.4890
8/10/2008	0.051185	0.051185	-2.9723
9/10/2008	0.001422	0.001422	-6.5556
10/10/2008	0.000000	0.000000	
11/10/2008	0.018544	0.018544	-3.9876
12/10/2008	0.000356	0.000356	-7.9395
13/10/2008	0.086895	0.086895	-2.4431
14/10/2008	0.325726	0.325726	-1.1217
15/10/2008	0.014304	0.014304	-4.2472
16/10/2008	0.038082	0.038082	-3.2680
17/10/2008	0.067965	0.067965	-2.6888
18/10/2008	0.001307	0.001307	-6.6403
19/10/2008	0.016182	0.016182	-4.1239
20/10/2008	0.000469	0.000469	-7.6658
21/10/2008	0.018452	0.018452	-3.9926
22/10/2008	0.037907	0.037907	-3.2726
23/10/2008	0.002577	0.002577	-5.9611
	0.001105	0.001105	-6.8075
24/10/2008		0.023200	-3.7636
25/10/2008	0.023200		
25/10/2008			-5.3084
	0.023200 0.004950 0.067968	0.004950	-5.3084 -2.6887
25/10/2008 26/10/2008 27/10/2008	0.004950 0.067968	0.004950 0.067968	-2.6887
25/10/2008 26/10/2008 27/10/2008 28/10/2008	0.004950 0.067968 0.010355	0.004950 0.067968 0.010355	-2.6887 -4.5703
25/10/2008 26/10/2008 27/10/2008 28/10/2008 29/10/2008	0.004950 0.067968 0.010355 0.015321	0.004950 0.067968 0.010355 0.015321	-2.6887 -4.5703 -4.1786
25/10/2008 26/10/2008 27/10/2008 28/10/2008 29/10/2008 30/10/2008	0.004950 0.067968 0.010355 0.015321 0.043048	0.004950 0.067968 0.010355 0.015321 0.043048	-2.6887 -4.5703 -4.1786 -3.1454
25/10/2008 26/10/2008 27/10/2008 28/10/2008 29/10/2008 30/10/2008 31/10/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811
25/10/2008 26/10/2008 27/10/2008 28/10/2008 29/10/2008 30/10/2008 31/10/2008 1/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841
25/10/2008 26/10/2008 28/10/2008 29/10/2008 30/10/2008 31/10/2008 1/11/2008 2/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.002062	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841 -4.6884
25/10/2008 26/10/2008 28/10/2008 28/10/2008 30/10/2008 31/10/2008 31/10/2008 2/11/2008 3/11/2008 3/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.002062 0.009201 0.478244	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.002062 0.009201 0.478244	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841 -4.6884 -0.7376
25/10/2008 26/10/2008 28/10/2008 28/10/2008 30/10/2008 31/10/2008 31/10/2008 2/11/2008 3/11/2008 3/11/2008 4/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841 -4.6884 -0.7376 -3.5093
25/10/2008 26/10/2008 28/10/2008 28/10/2008 30/10/2008 31/10/2008 1/11/2008 2/11/2008 3/11/2008 4/11/2008 5/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917 0.001039	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917 0.001039	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841 -4.6884 -0.7376 -3.5093 -6.8693
25/10/2008 26/10/2008 28/10/2008 28/10/2008 30/10/2008 31/10/2008 31/10/2008 2/11/2008 3/11/2008 3/11/2008 4/11/2008	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917	0.004950 0.067968 0.010355 0.015321 0.043048 0.205745 0.002062 0.009201 0.478244 0.029917	-2.6887 -4.5703 -4.1786 -3.1454 -1.5811 -6.1841 -4.6884 -0.7376 -3.5093

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8/11/2008 9/11/2008	0.023002 0.002428	0.023002	-3.7722 -6.0206
10/11/2008	0.002428	0.002428	-5.8397
11/11/2008	0.972370	0.972370	-0.0280
12/11/2008	0.772141	0.772141	-0.2586
13/11/2008	0.049599	0.049599	-3.0038
14/11/2008	0.433890	0.433890	-0.8350
15/11/2008	0.467673	0.467673	-0.7600
16/11/2008	0.000759	0.000759	-7.1838
17/11/2008	0.009897	0.009897	-4.6155
18/11/2008	0.040471	0.040471	-3.2072
19/11/2008	0.001211	0.001211	-6.7165
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22/11/2008	0.090608	0.090608	-0.9281
23/11/2008	0.034879	0.034879	-3.3559
24/11/2008	0.316220	0.316220	-1.1513
25/11/2008	0.000218	0.000218	-8.4322
26/11/2008	0.000891	0.000891	-7.0234
27/11/2008	0.444609	0.444609	-0.8106
28/11/2008	0.007852	0.007852	-4.8470
29/11/2008	0.002514	0.002514	-5.9859
30/11/2008	0.014622	0.014622	-4.2252
1/12/2008	0.011303	0.011303	-4.4827
2/12/2008	0.003604	0.003604	-5.6257
3/12/2008	0.540365	0.540365	-0.6155
4/12/2008 5/12/2008	0.409203	0.409203	-0.8935
6/12/2008	0.604540	0.604540 0.001210	-0.5033 -6.7170
7/12/2008	0.001210	0.001210	-5.5542
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9/12/2008	0.124027	0.124027	-2.0873
10/12/2008	0.005810	0.005810	-5.1482
11/12/2008	0.011181	0.011181	-4.4935
12/12/2008	0.351546	0.351546	-1.0454
13/12/2008	2.810175	2.810175	1.0332
14/12/2008	0.033375	0.033375	-3.3999
15/12/2008	0.093554	0.093554	-2.3692
16/12/2008 17/12/2008	0.003851 0.005632	0.003851 0.005632	-5.5594 -5.1793
18/12/2008	0.095717	0.095717	-2.3464
19/12/2008	0.051223	0.051223	-2.9716
20/12/2008	0.047537	0.047537	-3.0462
21/12/2008	0.001375	0.001375	-6.5893
22/12/2008	0.140296	0.140296	-1.9640
23/12/2008	0.266427	0.266427	-1.3227
24/12/2008	0.098879	0.098879	-2.3139
25/12/2008	0.001068	0.001068	-6.8417
26/12/2008	0.000000	0.000000	7 2007
27/12/2008 28/12/2008	0.000623	0.000623	-7.3807 -6.8083
29/12/2008	0.637045	0.637045	-0.4509
30/12/2008	0.063651	0.063651	-2.7543
31/12/2008	0.246934	0.246934	-1.3986
1/01/2009	0.000946	0.000946	-6.9631
2/01/2009	0.000429	0.000429	-7.7550
3/01/2009	0.000000	0.000000	
4/01/2009	0.006432	0.006432	-5.0464
5/01/2009 6/01/2009	0.517303	0.517303 0.050504	-0.6591
7/01/2009	0.050504 0.000399	0.050504	<u>-2.9857</u> -7.8268
8/01/2009	0.000399	0.000399	-4.3111
9/01/2009	0.000356	0.000356	-7.9404
10/01/2009	0.000821	0.000821	-7.1051
11/01/2009	0.007992	0.007992	-4.8294
12/01/2009	0.001625	0.001625	-6.4220
13/01/2009	1.071294	1.071294	0.0689
14/01/2009	0.006544	0.006544	-5.0292
1 5 10 4 10 0 00	0.066224	0.066224	-2.7147
15/01/2009		0.204040	1 9554
16/01/2009	0.284949	0.284949	-1.2554
16/01/2009 17/01/2009	0.284949 0.015627	0.015627	-1.2554 -4.1588
16/01/2009	0.284949		
16/01/2009 17/01/2009 18/01/2009	0.284949 0.015627 0.000000	0.015627	-4.1588
16/01/2009 17/01/2009 18/01/2009 19/01/2009	0.284949 0.015627 0.000000 0.086387	0.015627 0.000000 0.086387	-4.1588 -2.4489
16/01/2009 17/01/2009 18/01/2009 19/01/2009 20/01/2009 21/01/2009 22/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.010171 1.898655	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655	-4.1588 -2.4489 -2.1302 -4.5882 0.6411
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 22/01/2009 23/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 22/01/2009 23/01/2009 24/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 23/01/2009 23/01/2009 24/01/2009 25/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 23/01/2009 23/01/2009 24/01/2009 25/01/2009 26/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.003412	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.000412	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856 -7.7942
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 23/01/2009 23/01/2009 25/01/2009 26/01/2009 26/01/2009	0.284949 0.015627 0.000000 0.086387 0.118008 0.010171 1.898655 0.479274 0.205396 0.03859 0.03859 0.000412 0.079797	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.000412 0.079797	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856 -7.7942 -2.5283
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 22/01/2009 23/01/2009 24/01/2009 25/01/2009 26/01/2009 28/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.0101711 1.898655 0.479274 0.205396 0.033859 0.000412 0.079797 6.955878	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.003859 0.000412 0.079797 6.955878	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856 -7.7942 -2.5283 1.9396
16/01/2009 17/01/2009 18/01/2009 20/01/2009 22/01/2009 22/01/2009 23/01/2009 24/01/2009 25/01/2009 26/01/2009 27/01/2009 28/01/2009 28/01/2009	0.284949 0.015627 0.00000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.000412 0.079797 6.955878 10.760650	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.000412 0.079797 6.955878 7.410783	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856 -7.7942 -2.5283 1.9396 2.0029
16/01/2009 17/01/2009 18/01/2009 20/01/2009 21/01/2009 22/01/2009 22/01/2009 23/01/2009 24/01/2009 25/01/2009 26/01/2009 28/01/2009	0.284949 0.015627 0.000000 0.086387 0.118808 0.0101711 1.898655 0.479274 0.205396 0.033859 0.000412 0.079797 6.955878	0.015627 0.000000 0.086387 0.118808 0.010171 1.898655 0.479274 0.205396 0.033859 0.003859 0.000412 0.079797 6.955878	-4.1588 -2.4489 -2.1302 -4.5882 0.6411 -0.7355 -1.5828 -3.3856 -7.7942 -2.5283 1.9396

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3/02/2009	1.879727	1.879727	0.6311
4/02/2009	1.236100	1.236100	0.2120
5/02/2009	0.018494	0.018494	-3.9903
6/02/2009 7/02/2009	0.007249	0.007249	-4.9269
8/02/2009	2.438976 0.357521	2.438976	0.8916
9/02/2009	0.015725	0.357521	
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10/02/2009 11/02/2009	0.732361	0.732361	-0.3115
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13/02/2009	0.012995	0.012995	-0.8109 -4.3432
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17/02/2009	0.009346	0.009346	-4.6728
18/02/2009	0.003340	0.003340	-5.8940
19/02/2009	0.009059	0.009059	-4.7040
20/02/2009	0.004599	0.004599	-5.3820
21/02/2009	1.026330	1.026330	0.0260
22/02/2009	0.001134	0.001134	-6.7820
23/02/2009	1.345165	1.345165	0.2965
24/02/2009	0.381012	0.381012	-0.9649
25/02/2009	1.149442	1.149442	0.1393
26/02/2009	0.025882	0.025882	-3.6542
27/02/2009	0.197632	0.197632	-1.6214
28/02/2009	0.014205	0.014205	-4.2542
1/03/2009	1.728046	1.728046	0.5470
2/03/2009	0.005925	0.005925	-5.1285
3/03/2009	3.338715	3.338715	1.2056
4/03/2009	0.184945	0.184945	-1.6877
5/03/2009	1.503486	1.503486	0.4078
6/03/2009	1.162905	1.162905	0.1509
7/03/2009	0.000490	0.000490	-7.6201
8/03/2009	0.114099	0.114099	-2.1707
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10/03/2009	0.001313	0.001313	-6.6351
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13/03/2009	0.039487	0.039487	-3.2318
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16/03/2009	0.010258	0.010258	-4.5797
17/03/2009	0.009468	0.009468	-4.6599
18/03/2009	0.002690	0.002690	-5.9184
19/03/2009	0.450404	0.450404	-0.7976
20/03/2009	0.373319	0.373319	-0.9853
21/03/2009	0.000685	0.000685	-7.2865
22/03/2009	0.757496	0.757496	-0.2777
23/03/2009	0.031510	0.031510	-3.4574
24/03/2009	0.067610	0.067610	-2.6940
25/03/2009	0.036491	0.036491	-3.3107
26/03/2009	0.002183	0.002183	-6.1273
27/03/2009	0.331950 0.120327	0.331950	-1.1028
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29/03/2009	0.048441	0.048441	-3.0274
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1/04/2009	0.004523 0.012746	0.004523 0.012746	-5.3986 -4.3625
2/04/2009	0.012746	0.012746	-4.3625
3/04/2009	2.238293	2.238293	0.8057
4/04/2009	0.182530	0.182530	-1.7008
5/04/2009	0.010328	0.010328	-4.5729
6/04/2009	0.019300	0.019300	-3.9476
7/04/2009	0.047037	0.047037	-3.0568
8/04/2009	0.033323	0.033323	-3.4015
9/04/2009	0.290607	0.290607	-1.2358
10/04/2009	0.002412	0.002412	-6.0274
11/04/2009	0.002178	0.002178	-6.1293
12/04/2009	0.172920	0.172920	-1.7549
13/04/2009	0.530801	0.530801	-0.6334
14/04/2009	0.251476	0.251476	-1.3804
15/04/2009	0.343990	0.343990	-1.0671
16/04/2009	0.001925	0.001925	-6.2530
17/04/2009	0.082137	0.082137	-2.4994
40/04/0000	0.000786	0.000786	-7.1481
18/04/2009	0.000862	0.000862	-7.0562
18/04/2009	0.000002	0.011953	-4.4267
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19/04/2009		0.002560	-5.9678
19/04/2009 20/04/2009	0.011953		-5.9678 -6.2193
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19/04/2009 20/04/2009 21/04/2009 22/04/2009 23/04/2009 24/04/2009	0.011953 0.002560 0.001991	0.002560 0.001991	-6.2193
19/04/2009 20/04/2009 21/04/2009 22/04/2009 23/04/2009 24/04/2009 25/04/2009	0.011953 0.002560 0.001991 0.048435 0.003191 0.026489	0.002560 0.001991 0.048435 0.003191 0.026489	-6.2193 -3.0275 -5.7473 -3.6310
19/04/2009 20/04/2009 21/04/2009 22/04/2009 23/04/2009 24/04/2009 25/04/2009 26/04/2009	0.011953 0.002560 0.001991 0.048435 0.003191 0.026489 0.016727	0.002560 0.001991 0.048435 0.003191 0.026489 0.016727	-6.2193 -3.0275 -5.7473 -3.6310 -4.0907
19/04/2009 20/04/2009 21/04/2009 22/04/2009 23/04/2009 24/04/2009 25/04/2009	0.011953 0.002560 0.001991 0.048435 0.003191 0.026489	0.002560 0.001991 0.048435 0.003191 0.026489	-6.2193 -3.0275 -5.7473 -3.6310

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30/04/2009	0.153932	0.153932	-1.8712
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2/05/2009	0.000647	0.000647	-7.3428
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13/05/2009	0.019770	0.019770	-3.9236
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3/02/2010	0.049215	0.049215	-3.0116
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5/02/2010	0.209470	0.209470	-1.5632
6/02/2010	0.003054	0.003054	-5.7914
7/02/2010	0.015060	0.015060	-4.1957
8/02/2010	0.129518	0.129518	-2.0439
9/02/2010	0.060737	0.060737	-2.8012
10/02/2010	0.808748	0.808748	-0.2123
11/02/2010	1.764626	1.764626	0.5679
12/02/2010	0.024091	0.024091	-3.7259
13/02/2010	0.016223	0.016223	-4.1213
14/02/2010	0.004658	0.004658	-5.3691
15/02/2010	0.246799	0.246799	-1.3992
16/02/2010	0.001498	0.001498	-6.5039
17/02/2010	0.002151	0.002151	-6.1421
18/02/2010	0.003047	0.003047	-5.7936
19/02/2010	0.712504	0.712504	-0.3390
20/02/2010	0.039388	0.039388	-3.2343
21/02/2010	0.233896	0.233896	-1.4529
22/02/2010	0.073738	0.073738	-2.6072
23/02/2010	0.003849	0.003849	-5.5598
24/02/2010	0.007147	0.007147	-4.9411
25/02/2010	0.144705	0.144705	-1.9331
26/02/2010	0.049991	0.049991	-2.9959
27/02/2010	0.032553	0.032553	-3.4249
28/02/2010	0.001631	0.001631	-6.4187
1/03/2010	0.035232	0.035232	-3.3458
2/03/2010	0.006752	0.006752	-4.9979
3/03/2010	0.001548	0.001548	-6.4709
4/03/2010	0.030540	0.030540	-3.4887
5/03/2010	0.072060	0.072060	-2.6303
6/03/2010	4.654428	4.654428	1.5378
7/03/2010	0.915256	0.915256	-0.0886
	0.709463	0.709463	
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9/03/2010	0.009890		-3.4210
11/03/2010	0.009890	0.009890 0.012434	-4.6162
12/03/2010	0.0012434	0.0012434	-4.3873 -6.6647
13/03/2010	0.001275	0.001275	-6.6647
14/03/2010	0.039583	0.039583	-8.9496
15/03/2010	0.363262	0.363262	-3.2294
16/03/2010	0.897326	0.897326	-0.1083
17/03/2010	0.565681	0.565681	-0.1083
18/03/2010	0.054035	0.054035	-0.5697 -2.9181
19/03/2010	0.298298	0.054035	-1.2097
20/03/2010	0.298298	0.298298	-1.2097 -4.7312
21/03/2010	0.008816	0.002067	-4.7312
22/03/2010	0.025754	0.025754	-3.6592
23/03/2010	0.000539	0.000539	-7.5265
24/03/2010	1.057076	1.057076	0.0555
25/03/2010	0.001950	0.001950	-6.2399
26/03/2010	0.001950	0.001175	-6.7468
27/03/2010	0.491521	0.491521	-0.7400
	0.009150	0.009150	-4.6940
		0.136530	
28/03/2010			-1.9912
28/03/2010 29/03/2010	0.136530		5 7440
28/03/2010 29/03/2010 30/03/2010	0.136530 0.003209	0.003209	-5.7418
28/03/2010 29/03/2010 30/03/2010 31/03/2010	0.136530 0.003209 0.003255	0.003209 0.003255	-5.7277
28/03/2010 29/03/2010 30/03/2010 31/03/2010 1/04/2010	0.136530 0.003209 0.003255 0.650969	0.003209 0.003255 0.650969	-5.7277 -0.4293
28/03/2010 29/03/2010 30/03/2010 31/03/2010 1/04/2010 2/04/2010	0.136530 0.003209 0.003255 0.650969 0.003471	0.003209 0.003255 0.650969 0.003471	-5.7277 -0.4293 -5.6633
28/03/2010 29/03/2010 30/03/2010 31/03/2010 1/04/2010 2/04/2010 3/04/2010	0.136530 0.003209 0.003255 0.650969 0.003471 0.002823	0.003209 0.003255 0.650969 0.003471 0.002823	-5.7277 -0.4293 -5.6633 -5.8700
28/03/2010 29/03/2010 30/03/2010 31/03/2010 1/04/2010 2/04/2010 3/04/2010 4/04/2010	0.136530 0.003209 0.003255 0.650969 0.003471 0.002823 0.001812	0.003209 0.003255 0.650969 0.003471 0.002823 0.001812	-5.7277 -0.4293 -5.6633 -5.8700 -6.3135
28/03/2010 29/03/2010 30/03/2010 1/04/2010 2/04/2010 3/04/2010 4/04/2010 5/04/2010	0.136530 0.003209 0.003255 0.650969 0.003471 0.002823 0.001812 0.0018731	0.003209 0.003255 0.650969 0.003471 0.002823 0.001812 0.019731	-5.7277 -0.4293 -5.6633 -5.8700 -6.3135 -3.9256
28/03/2010 29/03/2010 30/03/2010 31/03/2010 1/04/2010 2/04/2010 3/04/2010 4/04/2010	0.136530 0.003209 0.003255 0.650969 0.003471 0.002823 0.001812	0.003209 0.003255 0.650969 0.003471 0.002823 0.001812	-5.7277 -0.4293 -5.6633 -5.8700 -6.3135

8/04/2010			
	0.000350	0.000350	-7.9575
9/04/2010	0.000813	0.000813	-7.1142
10/04/2010	0.375205	0.375205	-0.9803
11/04/2010	0.543033	0.543033	-0.6106
12/04/2010	0.002249	0.002249	-6.0972 -4.8403
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18/04/2010	0.255709	0.255709	-1.3637
19/04/2010	0.035368	0.016681 0.035368	-4.0935 -3.3419
20/04/2010	0.141188	0.141188	
			-1.9577
21/04/2010 22/04/2010	0.086750	0.086750	-2.4447
		0.030442	-3.4919
23/04/2010 24/04/2010	0.230080 0.040048	0.230080	-1.4693 -3.2177
25/04/2010	0.028507	0.028507	-3.5576
26/04/2010	0.015320	0.015320	-4.1786
27/04/2010	0.001270	0.001270	-6.6684
28/04/2010	0.159262	0.159262	-1.8372
29/04/2010	0.059390	0.059390	-2.8236
30/04/2010	0.031246	0.031246	-3.4659
1/05/2010	0.014654	0.014654	-4.2230
2/05/2010	0.051593	0.051593	-4.2230
3/05/2010	0.019786	0.019786	-3.9228
4/05/2010	0.286036	0.286036	-3.9228
5/05/2010	0.012755	0.012755	-4.3618
6/05/2010	0.080212	0.080212	-4.3010
7/05/2010	0.001369	0.001369	-6.5939
8/05/2010	0.008196	0.008196	-4.8041
9/05/2010	0.001540	0.001540	-6.4759
10/05/2010	0.029005	0.029005	-3.5403
11/05/2010	0.049059	0.049059	-3.0147
12/05/2010	0.004527	0.004527	-5.3978
13/05/2010	0.008788	0.008788	-4.7344
14/05/2010	0.003844	0.003844	-5.5612
15/05/2010	0.001472	0.001472	-6.5210
16/05/2010	2.770983	2.770983	1.0192
17/05/2010	0.009629	0.009629	-4.6429
18/05/2010	0.020436	0.020436	-3.8904
19/05/2010	0.019857	0.019857	-3.9192
20/05/2010	0.036097	0.036097	-3.3215
21/05/2010	0.176224	0.176224	-1.7360
22/05/2010	0.002100	0.002100	-6.1658
23/05/2010	0.105308	0.105308	-2.2509
24/05/2010	0.030991	0.030991	-3.4741
25/05/2010	0.015043	0.015043	-4.1969
26/05/2010	0.044500	0.044500	-3.1123
27/05/2010	0.142489	0.142489	-1.9485
28/05/2010	0.002935	0.002935	-5.8311
29/05/2010	0.005730	0.005730	-5.1620
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31/05/2010	0.156713	0.156713	-1.8533
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2/06/2010	0.002509	0.002509	-5.9880
3/06/2010	0.571887	0.571887	-0.5588
4/06/2010	0.001749	0.001749	-6.3487
5/06/2010	0.607377	0.607377	-0.4986
6/06/2010	0.021864	0.021864	-3.8229
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7/06/2010		0.331425	
8/06/2010	0.012181	0.012181	-4.4078
8/06/2010 9/06/2010	0.012181 0.020160	0.012181 0.020160	-4.4078 -3.9041
8/06/2010 9/06/2010 10/06/2010	0.012181 0.020160 0.003375	0.012181 0.020160 0.003375	-4.4078 -3.9041 -5.6913
8/06/2010 9/06/2010 10/06/2010 11/06/2010	0.012181 0.020160 0.003375 0.027557	0.012181 0.020160 0.003375 0.027557	-4.4078 -3.9041 -5.6913 -3.5915
8/06/2010 9/06/2010 10/06/2010 11/06/2010 12/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044	0.012181 0.020160 0.003375 0.027557 0.004044	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104
8/06/2010 9/06/2010 10/06/2010 11/06/2010 12/06/2010 13/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877
8/06/2010 9/06/2010 10/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522
8/06/2010 9/06/2010 10/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 13/06/2010 15/06/2010 16/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 13/06/2010 15/06/2010 16/06/2010 17/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597
8/06/2010 9/06/2010 10/06/2010 11/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 17/06/2010 18/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 17/06/2010 18/06/2010 19/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 17/06/2010 18/06/2010 19/06/2010 20/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 13/06/2010 15/06/2010 16/06/2010 18/06/2010 19/06/2010 20/06/2010 21/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 18/06/2010 18/06/2010 20/06/2010 22/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 1.079951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 16/06/2010 16/06/2010 18/06/2010 18/06/2010 20/06/2010 21/06/2010 22/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460 -1.1162
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8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 18/06/2010 20/06/2010 22/06/2010 23/06/2010 23/06/2010 25/06/2010 26/06/2010	0.012181 0.020160 0.00375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031577 0.015233 0.008124	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.0658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460 -1.1162 -3.4572 -4.1843 -4.8129
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8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 18/06/2010 20/06/2010 22/06/2010 23/06/2010 24/06/2010 25/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083	-4.4078 -3.9041 -5.6913 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460 -1.1162 -3.4572 -4.1843 -4.8129 -4.3534 -2.7633
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 16/06/2010 16/06/2010 17/06/2010 20/06/2010 22/06/2010 22/06/2010 24/06/2010 25/06/2010 26/06/2010 27/06/2010 28/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083 0.296769	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083 0.296769	-4.4078 -3.9041 -5.6913 -3.5915 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460 -2.1460 -1.1162 -3.4572 -4.1843 -4.8129 -4.3534 -2.7633 -1.2148
8/06/2010 9/06/2010 11/06/2010 12/06/2010 13/06/2010 14/06/2010 15/06/2010 16/06/2010 17/06/2010 21/06/2010 22/06/2010 22/06/2010 23/06/2010 25/06/2010 26/06/2010 26/06/2010 27/06/2010	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083	0.012181 0.020160 0.003375 0.027557 0.004044 0.001377 0.023467 0.049951 1.179087 0.383024 0.011593 0.086999 0.658152 0.145927 0.116955 0.327529 0.031517 0.015233 0.008124 0.012863 0.063083	-4.4078 -3.9041 -5.6913 -5.5104 -6.5877 -3.7522 -2.9967 0.1647 -0.9597 -4.4574 -2.4419 -0.4183 -1.9246 -2.1460 -1.1162 -3.4572 -4.1843 -4.8129 -4.3534 -2.7633

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4/07/2010 5/07/2010	0.000599 0.021084	0.000599 0.021084	-7.4195 -3.8592
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7/07/2010	0.024901	0.024901	-3.6928
8/07/2010	0.055788	0.055788	-2.8862
9/07/2010	0.035627	0.035627	-3.3347
10/07/2010	0.088508	0.088508	-2.4247
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12/07/2010	0.006960	0.006960	-4.9676
13/07/2010	0.030653	0.030653	-3.4850
14/07/2010	2.026554	2.026554	0.7063
15/07/2010	0.178940	0.178940	-1.7207
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17/07/2010	0.020861	0.020861	-3.8699
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19/07/2010	0.043977	0.043977	-3.1241
20/07/2010	0.031278	0.031278	-3.4648
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3/08/2010	0.004171	0.004171	-5.4795
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13/08/2010	0.229680	0.229680	-1.4711
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20/08/2010	0.090271	0.090271	-2.4049
21/08/2010	0.079034	0.079034	-2.5379
22/08/2010	0.003946	0.003946	-5.5351
23/08/2010	0.110051	0.110051	-2.2068
24/08/2010	0.394127	0.394127	-0.9311
25/08/2010	0.012269	0.012269	-4.4007
26/08/2010	0.151933	0.151933	-1.8843
27/08/2010	0.002556	0.002556	-5.9692
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6/09/2010	0.066140	0.066140	-0.3925
7/09/2010	0.005059	0.005059	-5.2866
8/09/2010	0.029915	0.029915	-3.5094
9/09/2010	0.005778	0.005778	-5.1537
10/09/2010	0.024321	0.024321	-3.7164
11/09/2010	0.050779	0.050779	-2.9803
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13/09/2010	0.014825	0.014825	-4.2114
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16/09/2010	0.001548	0.001548	-6.4710
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18/09/2010	0.071543	0.071543	-2.6374
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19/09/2010 20/09/2010	0.003808	0.004004	
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19/09/2010 20/09/2010 21/09/2010 22/09/2010	0.391334 0.057015	0.057015	-2.8644
19/09/2010 20/09/2010 21/09/2010 22/09/2010 23/09/2010	0.391334 0.057015 0.255189	0.057015 0.255189	-2.8644 -1.3658
19/09/2010 20/09/2010 21/09/2010 22/09/2010 23/09/2010 24/09/2010	0.391334 0.057015 0.255189 0.009157	0.057015 0.255189 0.009157	-2.8644 -1.3658 -4.6932
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28/09/2010	0.008051	0.008051	-4.8220
29/09/2010	0.004588	0.004588	-5.3843
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3/10/2010	0.008356	0.008356	-4.7848
4/10/2010	0.021139	0.021139	-4.8192
5/10/2010	0.021139	0.043077	-3.8567
6/10/2010			-3.1448
7/10/2010	0.808404 0.003967	0.808404 0.003967	-0.2127
8/10/2010	0.090250	0.090250	-5.5296
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10/10/2010	0.018177	0.018177	-6.1308 -4.0076
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13/10/2010	0.513685	0.513685	-0.6661
14/10/2010	0.000296	0.000296	-8.1267
15/10/2010	0.141050	0.141050	-1.9586
16/10/2010	0.160303	0.160303	-1.8307
17/10/2010	0.001603	0.001603	-6.4358
18/10/2010	0.094028	0.094028	-2.3642
19/10/2010	0.010916	0.010916	-4.5175
20/10/2010	0.157617	0.157617	-1.8476
21/10/2010	0.007778	0.007778	-4.8565
22/10/2010	0.000851	0.000851	-7.0687
23/10/2010	0.014090	0.014090	-4.2623
24/10/2010	0.694372	0.694372	-0.3647
25/10/2010	0.034091	0.034091	-3.3787
26/10/2010	0.034024	0.034024	-3.3807
27/10/2010	0.001169	0.001169	-6.7513
28/10/2010	0.002512	0.002512	-5.9866
29/10/2010	0.010071	0.010071	-4.5981
30/10/2010	0.032607	0.032607	-3.4232
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3/11/2010	0.002081	0.002081	-6.1751
4/11/2010	0.032809	0.032809	-3.4170
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6/11/2010	0.003497	0.003497	-5.6559
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8/11/2010	0.011363	0.011363	-4.4774
9/11/2010	0.004168	0.004168	-5.4804
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13/11/2010	0.007061	0.007061	-4.9532
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17/11/2010	0.099195	0.099195	-2.3107
18/11/2010 19/11/2010	0.001410	0.001410	-6.5645
20/11/2010	0.019625		-6.2520
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22/11/2010			-2.5661 -4.2182
23/11/2010	0.014725	0.014725 0.176048	-4.2182
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29/11/2010	0.056011	0.056011	-2.8822
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			-3.0804
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2/12/2010 3/12/2010 5/12/2010 6/12/2010 7/12/2010 8/12/2010 9/12/2010 10/12/2010	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511	-3.0804 -5.8629 -6.5504 -3.0047 -1.4100 -4.1650 -1.1650 -2.9660
2/12/2010 3/12/2010 4/12/2010 6/12/2010 7/12/2010 8/12/2010 9/12/2010 10/12/2010 11/12/2010	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.001176	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.001176	-3.0804 -5.8629 -6.5504 -3.0047 -1.4100 -4.1650 -1.1650 -2.9660 -6.7454
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2/12/2010 3/12/2010 4/12/2010 5/12/2010 6/12/2010 8/12/2010 9/12/2010 10/12/2010 11/12/2010 12/12/2010 13/12/2010 16/12/2010 16/12/2010 18/12/2010 18/12/2010	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.00176 0.002478 0.004862 0.009177 0.007433 0.031889 0.033123 0.003180	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.0015511 0.0051511 0.002478 0.002478 0.002478 0.004862 0.009177 0.007433 0.031889 0.033123 0.003180	-3.0804 -5.8629 -6.5504 -3.0047 -1.4100 -4.1650 -1.1650 -2.9660 -6.7454 -6.0004 -5.3262 -4.6911 -4.9018 -3.4455 -3.4075 -5.7510
2/12/2010 3/12/2010 4/12/2010 5/12/2010 6/12/2010 8/12/2010 9/12/2010 10/12/2010 11/12/2010 13/12/2010 13/12/2010 15/12/2010 16/12/2010 18/12/2010 18/12/2010 19/12/2010	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.001176 0.002478 0.002478 0.002478 0.002478 0.002478 0.002478 0.002478 0.002478 0.002478 0.003180 1.034613	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.001176 0.002478 0.002478 0.002478 0.002478 0.002473 0.002473 0.002473 0.002473 0.003180 1.034613	-3.0804 -5.8629 -6.5504 -3.0047 -1.4100 -4.1650 -1.1650 -2.9660 -6.7454 -6.0004 -5.3262 -4.6911 -4.9018 -3.4455 -3.4075 -5.7510 0.0340
2/12/2010 3/12/2010 4/12/2010 6/12/2010 6/12/2010 8/12/2010 9/12/2010 10/12/2010 11/12/2010 12/12/2010 13/12/2010 16/12/2010 16/12/2010 18/12/2010 18/12/2010	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.051511 0.00176 0.002478 0.004862 0.009177 0.007433 0.031889 0.033123 0.003180	0.283971 0.045941 0.002843 0.001430 0.049553 0.244146 0.015529 0.311911 0.0015511 0.0051511 0.002478 0.002478 0.002478 0.004862 0.009177 0.007433 0.031889 0.033123 0.003180	-3.0804 -5.8629 -6.5504 -3.0047 -1.4100 -4.1650 -1.1650 -2.9660 -6.7454 -6.0004 -5.3262 -4.6911 -4.9018 -3.4455 -3.4075 -5.7510

22/12/2010			
	0.004920	0.004920	-5.3144
23/12/2010	0.278567	0.278567	-1.2781
24/12/2010	0.031940	0.031940	-3.4439
25/12/2010	0.000538	0.000538	-7.5268
26/12/2010	1.946229	1.946229	0.6659
27/12/2010	0.001215	0.001215	-6.7132
28/12/2010	0.001516	0.001516	-6.4916
29/12/2010	0.451162	0.451162	-0.7959
30/12/2010	0.007686	0.007686	-4.8683
31/12/2010	0.232684	0.232684	-1.4581
1/01/2011	0.000587	0.000587	-7.4402
2/01/2011	0.001880	0.001880	-6.2767
3/01/2011	0.226399	0.226399	-1.4855
4/01/2011	0.984775	0.984775	-0.0153
5/01/2011	0.162158	0.162158	-1.8192
6/01/2011	0.379542	0.379542	-0.9688
7/01/2011	0.079531	0.079531	-2.5316
8/01/2011	0.259317	0.259317	-1.3497
9/01/2011	0.953884	0.953884	-0.0472
10/01/2011	0.637738	0.637738	-0.4498
11/01/2011	0.015512	0.015512	-4.1661
12/01/2011	0.463422	0.463422	-0.7691
13/01/2011	0.099029	0.099029	-2.3123
14/01/2011	0.149721	0.149721	-1.8990
15/01/2011	0.010132	0.010132	-4.5921
16/01/2011	0.034028	0.034028	-3.3806
17/01/2011	0.956628	0.956628	-0.0443
18/01/2011	0.002974	0.002974	-5.8178
19/01/2011	0.001988	0.001988	-6.2206
20/01/2011	0.053574	0.053574	-2.9267
21/01/2011	0.005543	0.005543	-5.1952
22/01/2011	0.001612	0.001612	-6.4306
23/01/2011	0.005301	0.005301	-5.2399
24/01/2011	0.066769	0.066769	-2.7065
25/01/2011	0.029850	0.029850	-3.5116
26/01/2011	0.053775	0.053775	-2.9229
27/01/2011	1.310446	1.310446	0.2704
28/01/2011	0.042172	0.042172	-3.1660
29/01/2011	1.073037	1.073037	0.0705
30/01/2011	0.882979	0.882979	-0.1245
31/01/2011	0.133405	0.133405	-2.0144
1/02/2011	0.495724	0.495724	-0.7017
2/02/2011	0.024732	0.024732	-3.6997
3/02/2011	0.043566	0.043566	-3.1335
4/02/2011	0.359042	0.359042	-1.0243
5/02/2011	0.093840	0.093840	-2.3662
6/02/2011	0.027052	0.027052	-3.6100
7/02/2011	0.036268	0.036268	-3.3168
8/02/2011	0.043059	0.043059	-3.1452
9/02/2011	0.008872	0.008872	-4.7249
10/02/2011	0.108584	0.108584	-2.2202
11/02/2011	1.367859	1.367859	0.3132
12/02/2011	0.587442	0.587442	-0.5320
13/02/2011	0.001225	0.001225	-6.7045
14/02/2011	0.001223	0.001223	-6.2286
15/02/2011	0.112193	0.112193	-2.1875
16/02/2011	0.054145	0.054145	-2.1875
17/02/2011	0.050813	0.054145	-2.9161
18/02/2011	0.086178	0.086178	-2.9796
19/02/2011	0.051717	0.051717	-2.4513
20/02/2011	0.070631	0.070631	-2.9620
21/02/2011	0.046968	0.046968	-3.0583
22/02/2011	0.819209	0.819209	-0.1994
23/02/2011	0.207811	0.207811	-0.1994
24/02/2011	0.021288	0.021288	-3.8496
25/02/2011	0.002093	0.002093	-6.1690
26/02/2011	0.089871	0.089871	-2.4094
27/02/2011	0.502805	0.502805	-0.6876
28/02/2011	0.066409	0.066409	-2.7119
	0.001187	0.001187	-6.7362
1/03/2011	0.058610	0.058610	-2.8369
1/03/2011 2/03/2011		0,0000101	
2/03/2011			
2/03/2011 3/03/2011	0.103261	0.103261	-2.2705
2/03/2011 3/03/2011 4/03/2011	0.103261 0.502224	0.103261 0.502224	-2.2705 -0.6887
2/03/2011 3/03/2011 4/03/2011 5/03/2011	0.103261 0.502224 0.001404	0.103261 0.502224 0.001404	-2.2705 -0.6887 -6.5683
2/03/2011 3/03/2011 4/03/2011 5/03/2011 6/03/2011	0.103261 0.502224 0.001404 0.000306	0.103261 0.502224 0.001404 0.000306	-2.2705 -0.6887 -6.5683 -8.0908
2/03/2011 3/03/2011 4/03/2011 5/03/2011 6/03/2011 7/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294	0.103261 0.502224 0.001404 0.000306 0.019294	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480
2/03/2011 3/03/2011 4/03/2011 5/03/2011 6/03/2011 7/03/2011 8/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605
2/03/2011 3/03/2011 4/03/2011 5/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973
2/03/2011 3/03/2011 5/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011 10/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816
2/03/2011 3/03/2011 5/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011 10/03/2011 11/03/2011	0.103261 0.502224 0.001404 0.00306 0.019294 0.422971 0.183175 0.617771 0.005476	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816 -5.2074
2/03/2011 3/03/2011 5/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011 10/03/2011 11/03/2011 12/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816 -5.2074 -4.2448
2/03/2011 3/03/2011 4/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011 10/03/2011 11/03/2011 12/03/2011 13/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816 -5.2074 -4.2448 -1.0530
2/03/2011 3/03/2011 4/03/2011 6/03/2011 8/03/2011 8/03/2011 9/03/2011 10/03/2011 11/03/2011 12/03/2011 13/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874 0.028121	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874 0.028121	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816 -5.2074 -4.2448 -1.0530 -3.5712
2/03/2011 3/03/2011 4/03/2011 6/03/2011 7/03/2011 8/03/2011 9/03/2011 10/03/2011 11/03/2011 12/03/2011 13/03/2011	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874	0.103261 0.502224 0.001404 0.000306 0.019294 0.422971 0.183175 0.617771 0.005476 0.014338 0.348874	-2.2705 -0.6887 -6.5683 -8.0908 -3.9480 -0.8605 -1.6973 -0.4816 -5.2074 -4.2448 -1.0530

18/03/2011	0.016409	0.016409	-4.1099
19/03/2011 20/03/2011	0.327663	0.327663 0.001423	-1.1158 -6.5548
21/03/2011	0.001423	0.001423	-6.2767
22/03/2011	0.003603	0.003603	-5.6260
23/03/2011	0.008718	0.008718	-4.7423
24/03/2011	0.567976	0.567976	-0.5657
25/03/2011	0.035987	0.035987	-3.3246
26/03/2011	0.001762	0.001762	-6.3416
27/03/2011	0.001197	0.001197	-6.7282
28/03/2011	0.071451	0.071451	-2.6387
29/03/2011	0.000629	0.000629	-7.3719
30/03/2011	0.054786	0.054786	-2.9043
31/03/2011	0.018726	0.018726	-3.9778
1/04/2011	0.322493	0.322493	-1.1317
2/04/2011 3/04/2011	0.001337	0.001337	-6.6172
4/04/2011	0.912440	0.912440 0.227411	-0.0916 -1.4810
5/04/2011	0.185054	0.185054	-1.6871
6/04/2011	0.009660	0.009660	-4.6398
7/04/2011	0.045028	0.045028	-3.1005
8/04/2011	0.074601	0.074601	-2.5956
9/04/2011	0.034672	0.034672	-3.3618
10/04/2011	0.036329	0.036329	-3.3152
11/04/2011	0.023315	0.023315	-3.7587
12/04/2011	0.063693	0.063693	-2.7537
13/04/2011	0.001219	0.001219	-6.7097
14/04/2011	0.004180	0.004180	-5.4773
15/04/2011	0.096620	0.096620	-2.3370
16/04/2011	0.041415	0.041415	-3.1841
17/04/2011	0.053733	0.053733	-2.9237
18/04/2011 19/04/2011	0.006066	0.006066	-5.1050
20/04/2011	0.003064 0.023136	0.003064 0.023136	-5.7882 -3.7664
21/04/2011	0.023130	0.023130	-2.8841
22/04/2011	0.162994	0.162994	-1.8140
23/04/2011	0.047070	0.047070	-3.0561
24/04/2011	0.016467	0.016467	-4.1064
25/04/2011	0.004171	0.004171	-5.4796
26/04/2011	0.160137	0.160137	-1.8317
27/04/2011	0.002301	0.002301	-6.0745
28/04/2011	0.008830	0.008830	-4.7296
29/04/2011	0.005431	0.005431	-5.2156
30/04/2011	0.031152	0.031152	-3.4689
1/05/2011	0.000874	0.000874	-7.0420
2/05/2011	0.241934 0.052900	0.241934 0.052900	-1.4191
3/05/2011 4/05/2011	1.446005	1.446005	-2.9393 0.3688
5/05/2011	0.018522	0.018522	-3.9888
6/05/2011	0.106908	0.106908	-2.2358
7/05/2011	0.122679	0.122679	-2.0982
8/05/2011	0.033543	0.033543	-3.3949
9/05/2011	0.026311	0.026311	-3.6378
10/05/2011	0.001216	0.001216	-6.7123
11/05/2011	0.053060		-2.9363
12/05/2011	0.016237	0.016237	-4.1205
13/05/2011	0.023628	0.023628	-3.7453
14/05/2011	0.015624	0.015624	-4.1589
15/05/2011	0.026037	0.026037	-3.6482
16/05/2011 17/05/2011	0.006453 0.008980	0.006453 0.008980	-5.0433 -4.7128
18/05/2011	0.008980	0.008980	-4.7128
19/05/2011	0.094906	0.094906	-2.3549
20/05/2011	0.015570	0.015570	-4.1624
21/05/2011	0.002409	0.002409	-6.0284
22/05/2011	0.563524	0.563524	-0.5735
23/05/2011	0.018362	0.018362	-3.9975
24/05/2011	1.052479	1.052479	0.0511
25/05/2011	0.017121	0.017121	-4.0675
26/05/2011	0.002125	0.002125	-6.1538
27/05/2011	0.003124	0.003124	-5.7686
28/05/2011 29/05/2011	0.050156 0.043190	0.050156 0.043190	-2.9926 -3.1422
29/03/2011	0.006536	0.006536	-3.1422
30/05/2011	0.000000	0.701907	-0.3540
30/05/2011 31/05/2011	0 701907	0.101007	
31/05/2011	0.701907	0.039383	-3 2344
31/05/2011 1/06/2011	0.039383	0.039383 0.005786	-3.2344 -5.1524
31/05/2011		0.039383 0.005786 0.025182	-5.1524
31/05/2011 1/06/2011 2/06/2011	0.039383 0.005786	0.005786	
31/05/2011 1/06/2011 2/06/2011 3/06/2011	0.039383 0.005786 0.025182 0.004496 0.000874	0.005786 0.025182	-5.1524 -3.6816
31/05/2011 1/06/2011 2/06/2011 3/06/2011 4/06/2011	0.039383 0.005786 0.025182 0.004496	0.005786 0.025182 0.004496	-5.1524 -3.6816 -5.4045
31/05/2011 1/06/2011 2/06/2011 3/06/2011 4/06/2011 5/06/2011 6/06/2011 7/06/2011	0.039383 0.005786 0.025182 0.004496 0.000874 0.026870 0.009197	0.005786 0.025182 0.004496 0.000874	-5.1524 -3.6816 -5.4045 -7.0420
31/05/2011 1/06/2011 2/06/2011 3/06/2011 5/06/2011 5/06/2011 6/06/2011 7/06/2011 8/06/2011	0.039383 0.005786 0.025182 0.004496 0.000874 0.026870 0.009197 0.021770	0.005786 0.025182 0.004496 0.000874 0.026870 0.009197 0.021770	-5.1524 -3.6816 -5.4045 -7.0420 -3.6167 -4.6889 -3.8272
31/05/2011 1/06/2011 3/06/2011 4/06/2011 5/06/2011 6/06/2011 7/06/2011 8/06/2011 9/06/2011	0.039383 0.005786 0.025182 0.004496 0.000874 0.026870 0.029197 0.021770 0.431316	0.005786 0.025182 0.004496 0.000874 0.026870 0.009197 0.021770 0.431316	-5.1524 -3.6816 -5.4045 -7.0420 -3.6167 -4.6889 -3.8272 -0.8409
31/05/2011 1/06/2011 2/06/2011 3/06/2011 5/06/2011 5/06/2011 6/06/2011 7/06/2011 8/06/2011	0.039383 0.005786 0.025182 0.004496 0.000874 0.026870 0.009197 0.021770	0.005786 0.025182 0.004496 0.000874 0.026870 0.009197 0.021770	-5.1524 -3.6816 -5.4045 -7.0420 -3.6167 -4.6889 -3.8272

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13/06/2011 14/06/2011	0.039485	0.039485	-3.2318 -3.3166
15/06/2011	0.030278	0.011198	-4.4920
16/06/2011	0.088230	0.088230	-2.4278
17/06/2011	0.203927	0.203927	-1.5900
18/06/2011	0.012382	0.012382	-4.3915
19/06/2011	0.082266	0.082266	-2.4978
20/06/2011	0.242148	0.242148	-1.4182
21/06/2011	0.168361	0.168361	-1.7816
22/06/2011	0.561606	0.561606	-0.5770
23/06/2011	0.015532	0.015532	-4.1649
24/06/2011	0.013563	0.013563	-4.3004
25/06/2011	0.000373	0.000373	-7.8929
26/06/2011	0.011664	0.011664	-4.4513
27/06/2011	0.019798	0.019798	-3.9222
28/06/2011	0.810124	0.810124	-0.2106
29/06/2011	0.006172	0.006172	-5.0878
30/06/2011	0.001075	0.001075	-6.8350
1/07/2011	0.012072	0.012072	-4.4168
2/07/2011	0.010371	0.010371	-4.5687
3/07/2011	0.033645	0.033645	-3.3919
4/07/2011	0.061115	0.061115	-2.7950
5/07/2011	0.050210	0.050210	-2.9915
6/07/2011 7/07/2011	0.011843 0.003813	0.011843	-4.4361
		0.003813	-5.5692
8/07/2011 9/07/2011	0.007560	0.007560	-4.8849
9/07/2011	0.0010432	0.010432 0.001615	-4.5629
11/07/2011	0.005039	0.001615	-6.4286 -5.2906
12/07/2011	0.035358	0.035358	-3.3422
13/07/2011	0.057901	0.057901	-3.3422
14/07/2011	0.167768	0.167768	-1.7852
15/07/2011	0.001758	0.001758	-6.3434
16/07/2011	0.016655	0.016655	-4.0951
17/07/2011	0.328077	0.328077	-1.1145
18/07/2011	0.027483	0.027483	-3.5942
19/07/2011	0.041741	0.041741	-3.1763
20/07/2011	0.003906	0.003906	-5.5452
21/07/2011	0.035716	0.035716	-3.3322
22/07/2011	0.022239	0.022239	-3.8059
23/07/2011	0.009602	0.009602	-4.6458
24/07/2011	0.014402	0.014402	-4.2404
25/07/2011	0.028185	0.028185	-3.5690
26/07/2011	0.493292	0.493292	-0.7067
27/07/2011	0.038626	0.038626	-3.2538
28/07/2011	0.124916	0.124916	-2.0801
29/07/2011	0.015308	0.015308	-4.1794
30/07/2011	0.001784	0.001784	-6.3290
31/07/2011	0.069000	0.069000	-2.6736
1/08/2011 2/08/2011	0.011064 0.021857	0.011064 0.021857	-4.5041
3/08/2011	0.107010	0.107010	-3.8233
4/08/2011	0.001755	0.001755	-2.2348 -6.3452
5/08/2011	0.089446	0.089446	-2.4141
6/08/2011	0.010333	0.010333	-4.5724
7/08/2011	0.612467	0.612467	-0.4903
8/08/2011	0.011198	0.011198	-4.4920
9/08/2011	0.004091	0.004091	-5.4989
10/08/2011	0.067650	0.067650	-2.6934
11/08/2011	0.037037	0.037037	-3.2958
12/08/2011	0.007595	0.007595	-4.8803
13/08/2011	0.004940	0.004940	-5.3104
14/08/2011	0.000332	0.000332	-8.0107
15/08/2011	0.008444	0.008444	-4.7743
15/08/2011 16/08/2011	0.008444 0.001608	0.008444 0.001608	-6.4325
15/08/2011 16/08/2011 17/08/2011	0.008444 0.001608 0.001883	0.008444 0.001608 0.001883	-6.4325 -6.2750
15/08/2011 16/08/2011 17/08/2011 18/08/2011	0.008444 0.001608 0.001883 0.001749	0.008444 0.001608 0.001883 0.001749	-6.4325 -6.2750 -6.3488
15/08/2011 16/08/2011 17/08/2011 18/08/2011 19/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535	0.008444 0.001608 0.001883 0.001749 0.004535	-6.4325 -6.2750 -6.3488 -5.3960
15/08/2011 16/08/2011 17/08/2011 18/08/2011 19/08/2011 20/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676
15/08/2011 16/08/2011 17/08/2011 18/08/2011 19/08/2011 20/08/2011 21/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 21/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 22/08/2011 22/08/2011 23/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.0024171 0.030214	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 23/08/2011 24/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 24/08/2011 25/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.0030214 0.000128 0.000128	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 24/08/2011 25/08/2011 26/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004355	0.008444 0.001608 0.001883 0.004535 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004335	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 24/08/2011 25/08/2011 25/08/2011 26/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.004171 0.000128 0.004318 0.004318 0.001535 2.913148	0.008444 0.001608 0.001883 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004318 0.001535 2.913148	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 21/08/2011 23/08/2011 24/08/2011 25/08/2011 26/08/2011 27/08/2011 28/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004318 0.001535 2.913148 0.002081	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004318 0.001535 2.913148 0.002081	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 23/08/2011 23/08/2011 24/08/2011 26/08/2011 26/08/2011 28/08/2011 28/08/2011	0.008444 0.001608 0.00183 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.001139	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002139	-6.4325 -6.2750 -6.3488 -5.3960 -5.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 24/08/2011 26/08/2011 26/08/2011 28/08/2011 28/08/2011 30/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004318 0.001535 2.913148 0.002081	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.004318 0.001535 2.913148 0.002081	-6.4325 -6.2750 -6.3488 -5.3960 -5.0676 -5.8763 -5.4796 -3.4994 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774 -3.4103
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 23/08/2011 23/08/2011 24/08/2011 26/08/2011 26/08/2011 28/08/2011 28/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002139 0.003032	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002081 0.0033032	-6.4325 -6.2750 -6.3488 -5.3960 -5.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774
15/08/2011 16/08/2011 17/08/2011 19/08/2011 20/08/2011 21/08/2011 23/08/2011 24/08/2011 25/08/2011 26/08/2011 28/08/2011 29/08/2011 30/08/2011 31/08/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002081 0.001139 0.033032 0.003686	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.002805 0.004171 0.000128 0.004171 0.000128 0.004318 0.0001535 2.913148 0.002081 0.002081 0.003032 0.003686	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774 -3.4103 -5.6033
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 22/08/2011 23/08/2011 25/08/2011 26/08/2011 27/08/2011 28/08/2011 30/08/2011 30/08/2011 1/09/2011	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002081 0.003032 0.003686 0.001915	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004171 0.030214 0.000128 0.004318 0.001535 2.913148 0.002081 0.002081 0.003032 0.003686 0.001915	-6.4325 -6.2750 -6.3488 -5.3960 -6.0676 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774 -3.4103 -5.6033 -6.2582
15/08/2011 16/08/2011 17/08/2011 18/08/2011 20/08/2011 21/08/2011 23/08/2011 23/08/2011 24/08/2011 25/08/2011 27/08/2011 27/08/2011 28/08/2011 30/08/2011 31/08/2011 31/08/2011 2/09/2011	0.008444 0.001608 0.00183 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.001355 2.913148 0.002081 0.002081 0.002081 0.00303032 0.003686 0.001915 0.0044003	0.008444 0.001608 0.001883 0.001749 0.004535 0.002317 0.002805 0.004171 0.030214 0.000128 0.004318 0.000128 0.004318 0.000135 2.913148 0.002081 0.002081 0.003032 0.003686 0.001915 0.044003	-6.4325 -6.2750 -6.3488 -5.3960 -5.8763 -5.8763 -5.4796 -3.4994 -8.9662 -5.4450 -6.4792 1.0692 -6.1751 -6.7774 -3.4103 -5.6033 -6.2582 -3.1235

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7/09/2011 8/09/2011	0.004212 0.013470	0.004212 0.013470	<u>-5.4697</u> -4.3073
9/09/2011	0.013470	0.013470	-3.3892
10/09/2011	0.003880	0.003880	-5.5518
11/09/2011	0.000753	0.000753	-7.1913
12/09/2011	0.022409	0.022409	-3.7983
13/09/2011	0.151234	0.151234	-1.8889
14/09/2011	0.035030	0.035030	-3.3516
15/09/2011	0.006341	0.006341	-5.0607
16/09/2011	0.003494	0.003494	-5.6566
17/09/2011	0.008891	0.008891	-4.7228
18/09/2011	0.002129	0.002129	-6.1523
19/09/2011	1.662786	1.662786	0.5085
20/09/2011	0.010955	0.010955	-4.5139
21/09/2011	0.068777	0.068777	-2.6769
22/09/2011	0.001532	0.001532	-6.4813
23/09/2011	0.000957	0.000957	-6.9513
24/09/2011	0.013617	0.013617	-4.2964
25/09/2011	0.001286	0.001286	-6.6562
26/09/2011	0.027722	0.027722	-3.5855
27/09/2011	0.265610	0.265610	-1.3257
28/09/2011	4.264177	4.264177	1.4502
29/09/2011	0.093132	0.093132	-2.3737
30/09/2011	0.488923	0.488923	-0.7155
1/10/2011	0.007123	0.007123	-4.9445
2/10/2011	0.507410	0.507410	-0.6784
3/10/2011	0.010911 0.049847	0.010911	-4.5180
4/10/2011 5/10/2011	0.049847	0.049847 0.776753	-2.9988 -0.2526
6/10/2011	0.128573	0.128573	
7/10/2011	0.041144	0.041144	-2.0513 -3.1907
8/10/2011	0.003727	0.003727	-5.5921
9/10/2011	0.001899	0.001899	-6.2666
10/10/2011	0.002783	0.002783	-5.8843
11/10/2011	0.011804	0.011804	-4.4393
12/10/2011	0.002703	0.002703	-5.9134
13/10/2011	0.011476	0.011476	-4.4675
14/10/2011	0.345476	0.345476	-1.0628
15/10/2011	0.029981	0.029981	-3.5072
16/10/2011	0.006373	0.006373	-5.0557
17/10/2011	0.001710	0.001710	-6.3710
18/10/2011	0.001411	0.001411	-6.5638
19/10/2011	0.004966	0.004966	-5.3052
20/10/2011	0.005521	0.005521	-5.1992
21/10/2011	0.025689	0.025689	-3.6617
22/10/2011	0.022594	0.022594	-3.7901
23/10/2011	0.003207	0.003207	-5.7424
24/10/2011	0.596291	0.596291	-0.5170
25/10/2011 26/10/2011	0.006526 0.004461	0.006526 0.004461	-5.0320 -5.4123
27/10/2011	0.001755	0.001755	-6.3452
28/10/2011	0.309632	0.309632	-1.1724
29/10/2011	0.010691	0.010691	-4.5384
30/10/2011	0.482142	0.482142	-0.7295
31/10/2011	0.028670	0.028670	-3.5519
1/11/2011	0.005888	0.005888	-5.1349
2/11/2011	0.084800	0.084800	-2.4675
3/11/2011	0.001056	0.001056	-6.8530
4/11/2011	0.002438	0.002438	-6.0165
5/11/2011	0.000964	0.000964	-6.9447
6/11/2011	0.002358	0.002358	-6.0498
7/11/2011	0.003545	0.003545	-5.6421
8/11/2011	0.319847	0.319847	-1.1399
9/11/2011	0.003386	0.003386	-5.6881
10/11/2011	0.165014	0.165014	-1.8017
11/11/2011	0.560282	0.560282	-0.5793
12/11/2011	0.512133 0.162869	0.512133	-0.6692
12/11/2011		0.102009	-1.8148
13/11/2011 14/11/2011		0.380211	-0 0436
14/11/2011	0.389211	0.389211	-0.9436
14/11/2011 15/11/2011	0.389211 0.008380	0.008380	-4.7819
14/11/2011 15/11/2011 16/11/2011	0.389211 0.008380 0.708915	0.008380 0.708915	-4.7819 -0.3440
14/11/2011 15/11/2011 16/11/2011 17/11/2011	0.389211 0.008380 0.708915 0.075762	0.008380 0.708915 0.075762	-4.7819 -0.3440 -2.5802
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011	0.389211 0.008380 0.708915	0.008380 0.708915 0.075762 0.401644	-4.7819 -0.3440 -2.5802 -0.9122
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 19/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977	0.008380 0.708915 0.075762 0.401644 0.323977	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 19/11/2011 20/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.179227	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 19/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977	0.008380 0.708915 0.075762 0.401644 0.323977	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 19/11/2011 20/11/2011 21/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 19/11/2011 20/11/2011 21/11/2011 22/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 20/11/2011 21/11/2011 21/11/2011 22/11/2011	0.389211 0.003380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.0045727 0.001979 0.016195	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979 0.016195	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254 -4.1230
14/11/2011 15/11/2011 16/11/2011 17/11/2011 19/11/2011 20/11/2011 21/11/2011 22/11/2011 23/11/2011 24/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979 0.016195 0.051040	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979 0.016195 0.051040	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254 -4.1230 -2.9751
14/11/2011 15/11/2011 16/11/2011 17/11/2011 19/11/2011 20/11/2011 21/11/2011 23/11/2011 23/11/2011 24/11/2011 25/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.045727 0.01979 0.016195 0.051040 0.065043	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979 0.016195 0.051040 0.065043	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254 -4.1230 -2.9751 -2.7327
14/11/2011 15/11/2011 16/11/2011 17/11/2011 19/11/2011 20/11/2011 21/11/2011 23/11/2011 23/11/2011 24/11/2011 26/11/2011 26/11/2011 28/11/2011	0.389211 0.008380 0.708915 0.075762 0.401644 0.323977 0.045727 0.045727 0.001979 0.016195 0.051040 0.065043 0.002757 0.005106 0.009551	0.008380 0.708915 0.075762 0.401644 0.323977 0.045727 0.001979 0.016195 0.051040 0.065043 0.002757 0.005106 0.009551	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254 -4.1230 -2.9751 -2.7327 -5.8935 -5.2774 -4.6511
14/11/2011 15/11/2011 16/11/2011 17/11/2011 18/11/2011 20/11/2011 21/11/2011 23/11/2011 23/11/2011 24/11/2011 25/11/2011 26/11/2011 27/11/2011	0.389211 0.003380 0.708915 0.075762 0.401644 0.323977 0.045727 0.045727 0.001979 0.016195 0.051040 0.065043 0.002757 0.005106	0.008380 0.708915 0.075762 0.401644 0.323977 0.179227 0.045727 0.001979 0.016195 0.051040 0.065043 0.002757 0.005106	-4.7819 -0.3440 -2.5802 -0.9122 -1.1271 -1.7191 -3.0851 -6.2254 -4.1230 -2.9751 -2.7327 -5.8935 -5.2774

1/12/2011			
	0.004024	0.004024	-5.5155
2/12/2011 3/12/2011	0.007471 0.000428	0.007471 0.000428	-4.8968 -7.7573
4/12/2011	0.000795	0.000795	-7.1373
5/12/2011	0.075654	0.075654	-2.5816
6/12/2011	0.002751	0.002751	-5.8959
7/12/2011	0.050108	0.050108	-2.9936
8/12/2011	0.005272	0.005272	-5.2454
9/12/2011	0.018783	0.018783	-3.9748
10/12/2011	1.365178	1.365178	0.3113
11/12/2011	0.283474	0.283474	-1.2606
12/12/2011	0.003348	0.003348	-5.6995
13/12/2011	0.010221	0.010221	-4.5833
14/12/2011	0.005594	0.005594	-5.1860
15/12/2011	0.016042	0.016042	-4.1325
16/12/2011	0.003118	0.003118	-5.7706
17/12/2011	0.048892	0.048892	-3.0181
18/12/2011	0.007471	0.007471	-4.8968
19/12/2011	1.302197	1.302197	0.2641
20/12/2011	0.023982	0.023982	-3.7305
21/12/2011	0.001216	0.001216	-6.7123
22/12/2011	0.025810	0.025810	-3.6570
23/12/2011	0.005827	0.005827	-5.1452
24/12/2011	0.269216	0.269216	-1.3122
25/12/2011	9.321012	9.321012	2.2323
26/12/2011	0.242572	0.242572	-1.4165
27/12/2011	0.155711	0.155711	-1.8598
28/12/2011	0.006242	0.006242	-5.0765
29/12/2011	0.004286	0.004286	-5.4525
30/12/2011	0.005393	0.005393	-5.2226
31/12/2011	0.043601	0.043601	-3.1327
1/01/2012	0.136411	0.136411	-1.9921
2/01/2012	1.766302	1.766302	0.5689
3/01/2012	0.425845	0.425845	-0.8537
4/01/2012	1.005154	1.005154	0.0051
5/01/2012	0.172086	0.172086	-1.7598
6/01/2012	0.016253	0.016253	-4.1195
7/01/2012	0.003031	0.003031	-5.7988
8/01/2012	0.314619 0.132263	0.314619 0.132263	-1.1564
9/01/2012 10/01/2012	0.460038	0.460038	-2.0230 -0.7764
11/01/2012	1.310323	1.310323	0.2703
12/01/2012	0.015578	0.015578	-4.1619
13/01/2012	0.028084	0.028084	-3.5726
14/01/2012	0.000498	0.000498	-7.6042
15/01/2012	0.773313	0.773313	-0.2571
16/01/2012	0.078010	0.078010	-2.5509
17/01/2012	0.096871	0.096871	-2.3344
18/01/2012	0.034424	0.034424	-3.3690
19/01/2012	0.139937	0.139937	-1.9666
20/01/2012	0.008705	0.008705	-4.7438
21/01/2012	0.000864	0.000864	-7.0537
22/01/2012	0.161331	0.161331	-1.8243
23/01/2012	0.010626	0.010626	-4.5444
24/01/2012	0.862738	0.862738	-0.1476
25/01/2012	0.004085	0.004085	-5.5005
26/01/2012	0.093329	0.093329	-2.3716
27/01/2012	0.066065	0.066065	-2.7171
28/01/2012	0.016505	0.016505	-4.1041
29/01/2012	0.468973	0.468973	-0.7572
30/01/2012	1.360208	1.360208	0.3076
31/01/2012	0.328153	0.328153	-1.1143
1/02/2012	0.041463	0 0 4 4 4 0 0	-3.1829
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2/02/2012	0.005573	0.005573	-5.1898
3/02/2012	0.005573 0.009516	0.005573 0.009516	-4.6548
3/02/2012 4/02/2012	0.005573 0.009516 0.422416	0.005573 0.009516 0.422416	-4.6548 -0.8618
3/02/2012 4/02/2012 5/02/2012	0.005573 0.009516 0.422416 4.326412	0.005573 0.009516 0.422416 4.326412	-4.6548 -0.8618 1.4647
3/02/2012 4/02/2012 5/02/2012 6/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573	0.005573 0.009516 0.422416 4.326412 0.025573	-4.6548 -0.8618 1.4647 -3.6662
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249	-4.6548 -0.8618 1.4647 -3.6662 -6.0973
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214
3/02/2012 4/02/2012 5/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012 12/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012 12/02/2012 13/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961
3/02/2012 4/02/2012 5/02/2012 6/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012 12/02/2012 13/02/2012 14/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 9/02/2012 9/02/2012 10/02/2012 12/02/2012 13/02/2012 13/02/2012 14/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 12/02/2012 13/02/2012 13/02/2012 14/02/2012 15/02/2012 16/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283	0.005573 0.009516 0.422416 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012 13/02/2012 13/02/2012 15/02/2012 16/02/2012 17/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003559 0.016445 0.029210 0.725283 0.003116	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 9/02/2012 10/02/2012 11/02/2012 13/02/2012 13/02/2012 14/02/2012 15/02/2012 16/02/2012 17/02/2012 18/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.003116	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711 -6.5465
3/02/2012 4/02/2012 5/02/2012 6/02/2012 8/02/2012 9/02/2012 1/02/2012 11/02/2012 13/02/2012 13/02/2012 14/02/2012 15/02/2012 16/02/2012 17/02/2012 18/02/2012 18/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.003116 0.001435 0.241599	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.241599	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711 -6.5465 -1.4205
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 9/02/2012 10/02/2012 11/02/2012 12/02/2012 13/02/2012 13/02/2012 15/02/2012 16/02/2012 18/02/2012 18/02/2012 19/02/2012 20/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.201599 0.036679	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.241599 0.036679	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711 -6.5465 -1.4205 -3.3056
3/02/2012 4/02/2012 5/02/2012 6/02/2012 8/02/2012 9/02/2012 1/02/2012 11/02/2012 13/02/2012 13/02/2012 14/02/2012 15/02/2012 16/02/2012 17/02/2012 18/02/2012 18/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.003116 0.001435 0.241599	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.241599	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711 -6.5465 -1.4205
3/02/2012 4/02/2012 5/02/2012 6/02/2012 7/02/2012 8/02/2012 9/02/2012 10/02/2012 11/02/2012 13/02/2012 14/02/2012 15/02/2012 16/02/2012 18/02/2012 18/02/2012 19/02/2012 20/02/2012	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.241599 0.036679 0.051219	0.005573 0.009516 0.422416 4.326412 0.025573 0.002249 0.307813 0.001489 0.022545 1.021590 0.006535 0.003359 0.016445 0.029210 0.725283 0.003116 0.001435 0.241599 0.036679 0.051219	-4.6548 -0.8618 1.4647 -3.6662 -6.0973 -1.1783 -6.5098 -3.7922 0.0214 -5.0305 -5.6961 -4.1077 -3.5332 -0.3212 -5.7711 -6.5465 -1.4205 -3.3056 -2.9716

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28/02/2012	0.011478	0.011478	-4.4674
29/02/2012	0.029159	0.029159	-3.5350
1/03/2012	0.113591	0.113591	-2.1752
2/03/2012	0.007412	0.007412	-4.9046
3/03/2012	0.022921	0.022921	-3.7757
4/03/2012	0.047425	0.047425	-3.0486
5/03/2012	0.028251	0.028251	-3.5666
6/03/2012	0.011944	0.011944	-4.4275
7/03/2012	0.004242	0.004242	-5.4627
8/03/2012	0.291257	0.291257	-1.2335
9/03/2012	0.061763	0.061763	-2.7844
10/03/2012	0.001012	0.001012	-6.8954
11/03/2012	0.005737 0.041120	0.005737	-5.1608
12/03/2012 13/03/2012	0.001426	0.041120 0.001426	-3.1913 -6.5531
14/03/2012	0.001420	0.001814	-6.3124
15/03/2012	0.060334	0.060334	-2.8079
16/03/2012	0.225570	0.225570	-1.4891
17/03/2012	0.002501	0.002501	-5.9910
18/03/2012	0.000460	0.000460	-7.6832
19/03/2012	0.004040	0.004040	-5.5114
20/03/2012	0.021123	0.021123	-3.8574
21/03/2012	0.075792	0.075792	-2.5798
22/03/2012	0.052405	0.052405	-2.9488
23/03/2012	0.125482	0.125482	-2.0756
24/03/2012	0.002940	0.002940	-5.8295
25/03/2012	0.669544	0.669544	-0.4012
26/03/2012	0.220826	0.220826	-1.5104
27/03/2012 28/03/2012	0.080659	0.080659	-2.5175 -6.2007
29/03/2012	0.002028	0.002028	-6.2007
30/03/2012	0.004375	0.004375	-4.8328
31/03/2012	0.030285	0.030285	-3.4971
1/04/2012	0.066050	0.066050	-2.7174
2/04/2012	0.026210	0.026210	-3.6416
3/04/2012	0.006617	0.006617	-5.0181
4/04/2012	0.030588	0.030588	-3.4871
5/04/2012	0.046270	0.046270	-3.0733
6/04/2012	0.191547	0.191547	-1.6526
7/04/2012	0.079152	0.079152	-2.5364
8/04/2012	0.010014	0.010014	-4.6038
9/04/2012	0.083375	0.083375	-2.4844
10/04/2012	0.869560	0.869560	-0.1398
11/04/2012 12/04/2012	0.094130	0.150938 0.094130	-1.8909 -2.3631
13/04/2012	0.001186	0.001186	-6.7372
14/04/2012	0.120479	0.120479	-2.1163
15/04/2012	0.000735	0.000735	-7.2158
16/04/2012	0.003435	0.003435	-5.6738
17/04/2012	0.000590	0.000590	-7.4357
18/04/2012	0.003170	0.003170	-5.7541
19/04/2012	0.001353	0.001353	-6.6054
20/04/2012	0.241940	0.241940	-1.4191
21/04/2012	0.005267	0.005267	-5.2462
22/04/2012	0.034991	0.034991	-3.3527
23/04/2012	0.568876	0.568876	-0.5641
24/04/2012 25/04/2012	0.005188	0.005188	-5.2613
26/04/2012	0.015881 0.004107	0.015881 0.004107	-4.1426 -5.4952
27/04/2012	0.125450	0.125450	-5.4952
28/04/2012	0.034143	0.034143	-3.3772
29/04/2012	0.000552	0.000552	-7.5020
30/04/2012	0.004425	0.004425	-5.4204
1/05/2012	0.019133	0.019133	-3.9564
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2/05/2012			0 4000
3/05/2012	0.001599	0.001599	-6.4383
3/05/2012 4/05/2012	0.005403	0.005403	-5.2208
3/05/2012 4/05/2012 5/05/2012	0.005403 0.009522	0.005403 0.009522	-5.2208 -4.6541
3/05/2012 4/05/2012 5/05/2012 6/05/2012	0.005403 0.009522 0.082728	0.005403 0.009522 0.082728	-5.2208 -4.6541 -2.4922
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012	0.005403 0.009522 0.082728 0.009885	0.005403 0.009522 0.082728 0.009885	-5.2208 -4.6541 -2.4922 -4.6167
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012 8/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398	0.005403 0.009522 0.082728 0.009885 0.018398	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012 8/05/2012 9/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112
3/05/2012 4/05/2012 5/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055
3/05/2012 4/05/2012 5/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488
3/05/2012 4/05/2012 6/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 12/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 12/05/2012 13/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.002287 0.008185 0.003892 0.003126	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488 -5.7681
3/05/2012 4/05/2012 5/05/2012 6/05/2012 7/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 13/05/2012 14/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.003266	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003126 0.003126 0.005986	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488 -5.7681 -5.1183
3/05/2012 4/05/2012 5/05/2012 6/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 12/05/2012 13/05/2012 14/05/2012 15/05/2012 16/05/2012 17/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.003986 0.002986 0.002384 0.003955 0.001192	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.005986 0.002384 0.003955 0.001192	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488 -5.5488 -5.5488 -5.7681 -5.1183 -6.0388 -5.5327 -6.7319
3/05/2012 4/05/2012 5/05/2012 6/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 12/05/2012 13/05/2012 14/05/2012 15/05/2012 16/05/2012 18/05/2012 18/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.002287 0.003126 0.003126 0.003986 0.002384 0.002384 0.003955 0.001192 0.214982	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.003986 0.002384 0.002384 0.002384 0.002384 0.002384	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488 -5.5488 -5.7681 -5.1183 -6.0388 -5.5327 -6.7319 -1.5372
3/05/2012 4/05/2012 6/05/2012 8/05/2012 9/05/2012 10/05/2012 11/05/2012 12/05/2012 13/05/2012 14/05/2012 15/05/2012 16/05/2012 17/05/2012	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.003986 0.002986 0.002384 0.003955 0.001192	0.005403 0.009522 0.082728 0.009885 0.018398 0.329156 0.002287 0.008185 0.003892 0.003126 0.005986 0.002384 0.003955 0.001192	-5.2208 -4.6541 -2.4922 -4.6167 -3.9955 -1.1112 -6.0806 -4.8055 -5.5488 -5.5488 -5.5488 -5.7681 -5.1183 -6.0388 -5.5327 -6.7319

21/05/2012 22/05/2012			
22/05/2012	0.140047	0.140047	-1.9658
	0.005179	0.005179	-5.2631
23/05/2012	0.016808	0.016808	-4.0859
24/05/2012	0.087860	0.087860	-2.4320
25/05/2012	0.245901	0.245901	-1.4028
26/05/2012	0.032654	0.032654	-3.4218
27/05/2012	0.065182	0.065182	-2.7306
28/05/2012	0.024895	0.024895	-3.6931
29/05/2012	0.019981	0.019981	-3.9130
30/05/2012	1.615944	1.615944	0.4799
31/05/2012	0.004498	0.004498	-5.4042
1/06/2012	0.024167	0.024167	-3.7228
2/06/2012	0.000770	0.000770	-7.1696
3/06/2012	0.001848	0.001848	-6.2935
4/06/2012	0.570636	0.570636	-0.5610
5/06/2012	0.040729	0.040729	-3.2008
6/06/2012	0.070500	0.070500	-2.6521
7/06/2012	0.020319	0.020319	-3.8962
8/06/2012	0.961076	0.961076	-0.0397
9/06/2012	0.598685	0.598685	-0.5130
10/06/2012	0.006677	0.006677	-5.0091
11/06/2012	0.100404	0.100404	-2.2986
12/06/2012	0.056663	0.056663	-2.8706
13/06/2012	0.060839	0.060839	-2.7995
14/06/2012	0.002870	0.002870	-5.8534
15/06/2012	0.005693	0.005693	-5.1685
16/06/2012	0.008453	0.008453	-4.7732
17/06/2012	0.015903	0.015903	-4.1413
18/06/2012	0.034338	0.034338	-3.3715
19/06/2012	0.018984	0.018984	-3.9641
20/06/2012	0.103214	0.103214	-2.2710
21/06/2012	0.015777	0.015777	-4.1492
22/06/2012	0.065188	0.065188	-2.7305
23/06/2012	0.002132	0.002132	-6.1506
24/06/2012	0.020637	0.020637	-3.8807
25/06/2012	0.065400	0.065400	-2.7272
26/06/2012	0.011058	0.011058	-4.5046
27/06/2012	0.004151	0.004151	-5.4845
28/06/2012	0.005608	0.005608	-5.1836
29/06/2012	0.003570	0.003570	-5.6351
30/06/2012	0.002555	0.002555	-5.9698
1/07/2012	0.361826	0.361826	-1.0166
2/07/2012	0.052052	0.052052	-2.9555
3/07/2012	0.003104	0.003104	-5.7752
4/07/2012	0.014651	0.014651	-4.2233
5/07/2012	0.021517	0.021517	-3.8389
6/07/2012	0.071739	0.071739	-2.6347
7/07/2012	0.050241	0.050241	-2.9909
8/07/2012	0.021457	0.021457	-3.8417
9/07/2012	0.017691	0.017691	-4.0347
10/07/2012	0.004760	0.004760	-5.3476
11/07/2012	0.035843	0.035843	-3.3286
12/07/2012	0.004864	0.004864	
13/07/2012	0.001691	0.001691	-5.3260
			-6.3827
14/07/2012	0.002435	0.002435	-6.0178
	0.000722		
15/07/2012	0.000405	0.000722	-7.2331
16/07/2012	0.009465	0.009465	-7.2331 -4.6601
16/07/2012 17/07/2012	0.001088	0.009465 0.001088	-7.2331 -4.6601 -6.8233
16/07/2012 17/07/2012 18/07/2012	0.001088 0.005043	0.009465 0.001088 0.005043	-7.2331 -4.6601 -6.8233 -5.2897
16/07/2012 17/07/2012 18/07/2012 19/07/2012	0.001088 0.005043 0.010058	0.009465 0.001088 0.005043 0.010058	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994
16/07/2012 17/07/2012 18/07/2012 19/07/2012 20/07/2012	0.001088 0.005043 0.010058 0.507346	0.009465 0.001088 0.005043 0.010058 0.507346	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786
16/07/2012 17/07/2012 18/07/2012 19/07/2012 20/07/2012 21/07/2012	0.001088 0.005043 0.010058 0.507346 0.599994	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108
16/07/2012 17/07/2012 18/07/2012 19/07/2012 20/07/2012 21/07/2012 22/07/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 22/07/2012 23/07/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 23/07/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 23/07/2012 24/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474
16/07/2012 17/07/2012 19/07/2012 20/07/2012 21/07/2012 23/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012 26/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 23/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012 26/07/2012 28/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0018597 0.005261 0.511153 0.010664	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 23/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012 27/07/2012 28/07/2012 28/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.005261 0.511153 0.511153 0.010664 0.009730	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.001817 0.0018597 0.005261 0.511153 0.010664 0.009730	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 27/07/2012 28/07/2012 28/07/2012 30/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 22/07/2012 23/07/2012 24/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 29/07/2012 33/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.001857 0.005261 0.511153 0.016664 0.009730 0.007381 0.001530	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 27/07/2012 28/07/2012 28/07/2012 30/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 23/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012 28/07/2012 28/07/2012 29/07/2012 33/07/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.001857 0.005261 0.511153 0.016664 0.009730 0.007381 0.001530	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 30/07/2012 30/07/2012 1/08/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 23/07/2012 23/07/2012 25/07/2012 26/07/2012 26/07/2012 27/07/2012 28/07/2012 29/07/2012 30/07/2012 31/07/2012 1/08/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.004597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.001530 0.029207 0.016997	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.001857 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.016997	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747
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16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 23/07/2012 23/07/2012 24/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 29/07/2012 31/07/2012 31/07/2012 31/07/2012 31/07/2012 3/08/2012 3/08/2012 5/08/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.016997 0.012859 0.042665 0.025438	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.004597 0.005261 0.511153 0.014597 0.005261 0.009730 0.009730 0.007381 0.001530 0.029207 0.012859 0.042665 0.025438	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -4.3537 -3.1544 -3.6715
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 33/07/2012 33/07/2012 1/08/2012 2/08/2012 3/08/2012 4/08/2012 6/08/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.014597 0.0015261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.016997 0.012859 0.042665 0.025438 0.050919	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.001817 0.001857 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.016997 0.012859 0.042665 0.025438 0.050919	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -4.3537 -3.1544 -3.6715 -2.9775
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 23/07/2012 23/07/2012 23/07/2012 25/07/2012 25/07/2012 26/07/2012 28/07/2012 28/07/2012 33/07/2012 33/07/2012 1/08/2012 3/08/2012 3/08/2012 5/08/2012 5/08/2012 5/08/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.004597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.016997 0.012859 0.042665 0.025438 0.050919 0.003022	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.0029207 0.016997 0.012859 0.042665 0.042665 0.025438	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -4.3537 -3.1544 -3.6715 -2.9775 -5.8020
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 22/07/2012 23/07/2012 23/07/2012 25/07/2012 26/07/2012 28/07/2012 28/07/2012 30/07/2012 31/07/2012 31/07/2012 31/07/2012 3/08/2012 3/08/2012 6/08/2012 6/08/2012 7/08/2012 8/08/2012	0.001088 0.005043 0.507346 0.507346 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563	0.009465 0.001088 0.005043 0.010058 0.507346 0.299994 0.229409 0.782930 0.001817 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.007381 0.001530 0.002920 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -3.5334 -4.0747 -3.1544 -3.6715 -2.9775 -5.8020 -1.0425
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 23/07/2012 23/07/2012 24/07/2012 25/07/2012 26/07/2012 28/07/2012 28/07/2012 30/07/2012 30/07/2012 31/07/2012 31/07/2012 3/08/2012 3/08/2012 5/08/2012 5/08/2012 7/08/2012 8/08/2012 29/08/2012	0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.029207 0.012859 0.042665 0.025438 0.050919 0.003222 0.352563 0.068942	0.009465 0.001088 0.005083 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.0029207 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563 0.068942	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -0.63107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -3.5334 -4.0747 -3.31544 -3.6715 -2.9775 -5.8020 -1.0425 -2.6745
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 33/07/2012 31/07/2012 31/07/2012 31/07/2012 31/07/2012 33/08/2012 3/08/2012 5/08/2012 5/08/2012 8/08/2012 8/08/2012 3/08/2012 10/08/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.0014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.007381 0.001530 0.029207 0.016997 0.012859 0.042665 0.025438 0.050919 0.042663 0.050919 0.0352563 0.068942 0.005337	0.009465 0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.004597 0.005261 0.511153 0.014597 0.005261 0.511153 0.014597 0.007381 0.009730 0.007381 0.001530 0.029207 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563 0.068942 0.005337	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -6.3107 -4.6325 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -3.1544 -3.6715 -2.9775 -5.8020 -1.0425 -2.6745 -2.6745 -5.2331
16/07/2012 17/07/2012 18/07/2012 20/07/2012 21/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 26/07/2012 28/07/2012 29/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 30/07/2012 10/08/2012 10/08/2012 11/08/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.029207 0.016997 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563 0.068942 0.005337 0.028046	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.001857 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.0029207 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563 0.068942 0.005337 0.028046	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.55334 -4.0747 -4.3537 -3.1544 -3.6715 -2.9775 -5.8020 -1.0425 -2.6745 -5.2331 -3.5739
16/07/2012 17/07/2012 18/07/2012 20/07/2012 22/07/2012 22/07/2012 23/07/2012 23/07/2012 26/07/2012 26/07/2012 28/07/2012 28/07/2012 28/07/2012 30/07/2012 31/07/2012 31/07/2012 31/07/2012 3/08/2012 3/08/2012 5/08/2012 5/08/2012 8/08/2012 10/08/2012 10/08/2012 10/08/2012 10/08/2012 10/08/2012	0.001088 0.005043 0.010058 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.009730 0.007381 0.009730 0.009730 0.012859 0.042665 0.025438 0.050919 0.003022 0.352563 0.068942 0.005337 0.028046 0.005892	0.009465 0.001088 0.005043 0.507346 0.599994 0.229409 0.782930 0.001817 0.014597 0.005261 0.511153 0.010664 0.009730 0.007381 0.001530 0.0029207 0.012859 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.042665 0.04265 0.042665 0.042665 0.042665 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0.04265 0	-7.2331 -4.6601 -6.8233 -5.2897 -4.5994 -0.6786 -0.5108 -1.4723 -0.2447 -6.3107 -4.2269 -5.2474 -0.6711 -4.5409 -4.6325 -4.9089 -6.4827 -3.5334 -4.0747 -3.5334 -3.0747 -3.1544 -3.6715 -2.9775 -5.8020 -1.0425 -2.6745 -5.2331 -3.5739 -5.1342
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15/08/2012 16/08/2012 17/08/2012 19/08/2012 20/08/2012 21/08/2012 22/08/2012 23/08/2012 24/08/2012 25/08/2012 26/08/2012	0.006437 0.023564 0.006482 0.115370 0.002186 0.042952 0.120098 0.076061 0.024712	0.006437 0.023564 0.006482 0.115370 0.002186 0.042952 0.120098	-5.0456 -3.7480 -5.0388 -2.1596 -6.1258 -3.1477
17/08/2012 18/08/2012 20/08/2012 21/08/2012 22/08/2012 23/08/2012 24/08/2012 24/08/2012 25/08/2012	0.006482 0.115370 0.002186 0.042952 0.120098 0.076061	0.006482 0.115370 0.002186 0.042952 0.120098	-5.0388 -2.1596 -6.1258
18/08/2012 19/08/2012 20/08/2012 21/08/2012 22/08/2012 23/08/2012 24/08/2012 25/08/2012	0.115370 0.002186 0.042952 0.120098 0.076061	0.115370 0.002186 0.042952 0.120098	-2.1596 -6.1258
19/08/2012 20/08/2012 21/08/2012 22/08/2012 23/08/2012 24/08/2012 25/08/2012	0.002186 0.042952 0.120098 0.076061	0.002186 0.042952 0.120098	-6.1258
20/08/2012 21/08/2012 22/08/2012 23/08/2012 24/08/2012 25/08/2012	0.042952 0.120098 0.076061	0.042952 0.120098	
21/08/2012 22/08/2012 23/08/2012 24/08/2012 25/08/2012	0.120098 0.076061	0.120098	-3.1477
22/08/2012 23/08/2012 24/08/2012 25/08/2012	0.076061		-2.1194
23/08/2012 24/08/2012 25/08/2012		0.076061	-2.5762
24/08/2012 25/08/2012	0.024112	0.024712	-3.7005
25/08/2012	0.085655	0.085655	-2.4574
	0.034755	0.034755	-3.3594
	0.036001	0.036001	-3.3242
27/08/2012	0.149582	0.149582	-1.8999
28/08/2012	0.002126	0.002126	-6.1536
29/08/2012	0.059779	0.059779	-2.8171
30/08/2012	0.004261	0.004261	-5.4582
31/08/2012	0.067787	0.067787	-2.6914
1/09/2012	0.001363	0.001363	-6.5984
2/09/2012	0.000820	0.000820	-7.1061
3/09/2012	0.236660	0.236660	-1.4411
4/09/2012	0.152411	0.152411	-1.8812
5/09/2012	1.232096	1.232096	0.2087
6/09/2012	0.190774	0.190774	-1.6567
7/09/2012	0.010841	0.010841	-4.5245
8/09/2012	0.002104	0.002104	-6.1640
9/09/2012	0.001956	0.001956	-6.2371
10/09/2012	0.026728	0.026728	-3.6221
11/09/2012	0.034070	0.034070	-3.3793
12/09/2012	0.156650	0.156650	-1.8537
13/09/2012	0.002848	0.002848	-5.8611
14/09/2012	0.004618	0.004618	-5.3779
15/09/2012	0.001858	0.001858	-6.2884
16/09/2012	0.000915	0.000915	-6.9969
17/09/2012	0.502265	0.502265	-0.6886
18/09/2012	0.012468	0.012468	-4.3846
19/09/2012	0.005393	0.005393	-5.2226
20/09/2012	0.001713	0.001713	-6.3697
21/09/2012	0.064737	0.064737	-2.7374
22/09/2012	0.124927	0.124927	-2.0800
23/09/2012	0.015313	0.015313	-4.1791
24/09/2012	0.001246	0.001246	-6.6879
25/09/2012	0.003501	0.003501	-5.6547
26/09/2012	0.312733	0.312733	-1.1624
27/09/2012	0.012771	0.012771	-4.3606
28/09/2012	0.001224	0.001224	-6.7058
29/09/2012	0.034133	0.034133	-3.3775
30/09/2012	0.002261	0.002261	-6.0917
1/10/2012 2/10/2012	0.007494 0.004097	0.007494	-4.8936 -5.4975
3/10/2012	0.002817	0.002817	-5.8722
4/10/2012	0.398713	0.398713	-0.9195
5/10/2012	0.002899	0.002899	-5.8435
6/10/2012	0.007526	0.007526	-4.8894
7/10/2012	0.003391	0.003391	-5.6867
8/10/2012	0.134875	0.134875	-2.0034
9/10/2012	0.032452	0.032452	-3.4280
10/10/2012	0.008989	0.008989	-4.7117
11/10/2012	0.612200	0.612200	-0.4907
12/10/2012	0.034502	0.034502	-3.3667
13/10/2012	0.002832	0.002832	-5.8666
14/10/2012	0.001681	0.001681	-6.3883
15/10/2012	0.006021	0.006021	-5.1125
16/10/2012	0.001823	0.001823	-6.3072
17/10/2012	0.004173	0.004173	-5.4792
18/10/2012	0.002583	0.002583	-5.9587
19/10/2012	0.240584	0.240584	-1.4247
20/10/2012	0.000489	0.000489	-7.6234
21/10/2012	0.594875	0.594875	-0.5194
22/10/2012	0.000429	0.000429	-7.7542
23/10/2012	0.000839	0.000839	-7.0833
24/10/2012	0.085832	0.085832	-2.4554
25/10/2012	0.391894	0.391894	-0.9368
0.011.010.011	0.014840	0.014840	-4.2104
26/10/2012	1.265728	1.265728	0.2356
27/10/2012			-6.8923
27/10/2012 28/10/2012	0.001016	0.001016	
27/10/2012 28/10/2012 29/10/2012	0.001016 0.026050	0.026050	-3.6478
27/10/2012 28/10/2012 29/10/2012 30/10/2012	0.001016 0.026050 0.018240	0.026050 0.018240	-4.0041
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012	0.001016 0.026050 0.018240 0.026889	0.026050 0.018240 0.026889	-4.0041 -3.6161
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058	0.026050 0.018240 0.026889 0.054058	-4.0041 -3.6161 -2.9177
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012 2/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058 0.002514	0.026050 0.018240 0.026889 0.054058 0.002514	-4.0041 -3.6161 -2.9177 -5.9860
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012 2/11/2012 3/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058 0.002514 0.001195	0.026050 0.018240 0.026889 0.054058 0.002514 0.001195	-4.0041 -3.6161 -2.9177 -5.9860 -6.7293
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012 2/11/2012 3/11/2012 4/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647	0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647	-4.0041 -3.6161 -2.9177 -5.9860 -6.7293 -7.3438
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012 2/11/2012 3/11/2012 4/11/2012 5/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647 0.029018	0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647 0.029018	-4.0041 -3.6161 -2.9177 -5.9860 -6.7293 -7.3438 -3.5399
27/10/2012 28/10/2012 29/10/2012 30/10/2012 31/10/2012 1/11/2012 2/11/2012 3/11/2012 4/11/2012	0.001016 0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647	0.026050 0.018240 0.026889 0.054058 0.002514 0.001195 0.000647	-4.0041 -3.6161 -2.9177 -5.9860 -6.7293 -7.3438

9/11/2012	0.025715	0.025715	-3.6607
10/11/2012	0.003826	0.003826	-5.5660
11/11/2012	0.000000	0.000000	
12/11/2012	0.037060	0.037060	-3.2952
13/11/2012	0.004523	0.004523	-5.3986
14/11/2012	0.000596	0.000596	-7.4251
15/11/2012	0.001650	0.001650	-6.4072
16/11/2012	0.014531	0.014531	-4.2315
17/11/2012	0.032086	0.032086	-3.4393
18/11/2012	0.001135	0.001135	-6.7807
19/11/2012	0.071011	0.071011	-2.6449
20/11/2012	0.003362	0.003362	-5.6951
21/11/2012	0.032058	0.032058	-3.4402
22/11/2012	0.033399	0.033399	-3.3992
23/11/2012	0.033399	0.033399	-3.7295
24/11/2012	0.024000	0.024000	
25/11/2012	0.0015206	0.000811	-4.1861
26/11/2012	0.708614	0.708614	-7.1177
			-0.3444
27/11/2012	1.342684	1.342684	0.2947
28/11/2012	0.053985	0.053985	-2.9190
29/11/2012	1.427075	1.427075	0.3556
30/11/2012	1.925687	1.925687	0.6553
1/12/2012	0.084472	0.084472	-2.4713
2/12/2012	0.002006	0.002006	-6.2116
3/12/2012	0.003476	0.003476	-5.6619
4/12/2012	0.032093	0.032093	-3.4391
5/12/2012	0.002113	0.002113	-6.1595
6/12/2012	0.001628	0.001628	-6.4207
7/12/2012	0.006986	0.006986	-4.9638
8/12/2012	0.284823	0.284823	-1.2559
9/12/2012	0.001984	0.001984	-6.2227
10/12/2012	0.012443	0.012443	-4.3866
11/12/2012	0.061271	0.061271	-2.7924
12/12/2012	0.047696	0.047696	-3.0429
13/12/2012	0.030317	0.030317	-3.4960
14/12/2012	0.025006	0.025006	-3.6887
15/12/2012	0.001568	0.001568	-6.4582
16/12/2012	0.245138	0.245138	-1.4059
17/12/2012	0.028103	0.028103	-3.5719
18/12/2012	0.003242	0.003242	-5.7314
19/12/2012	0.007516	0.007516	-4.8907
20/12/2012	0.031569	0.031569	-3.4556
21/12/2012	0.001602	0.001602	-6.4363
22/12/2012	0.001180	0.001180	-6.7426
23/12/2012	0.095171	0.095171	-2.3521
24/12/2012	0.476606	0.476606	-0.7411
25/12/2012	0.001454	0.001454	-6.5334
26/12/2012	0.001312	0.001312	-6.6361
27/12/2012	0.524170	0.524170	-0.6459
28/12/2012	0.324170	0.449513	-0.7996
29/12/2012	0.042555	0.042555	-3.1570
30/12/2012	0.042355	0.042555	-3.3195
31/12/2012			
31/12/2012	0.001243	0.001243	-6.6905

Note: Exclusions refer to upstream events only and do not refer MED exclusions. MED calculation starts from 5 years prior to the relevant regulatory reporting year (e.g. 2013 requires data from 1 January 2008 to 31 December 2012).

### Jemena Electricity Networks (Vic) Limited STPIS Data Reporting 2013 Exclusions

#### Table 1: Exclusions

Date of event (DD/MM/YYYY)	Feeder ID / name	Feeder classification	Number of interruptions (unplanned)	Duration of interruption (unplanned) (mins)	supply	antegration listed in	Effect on unplanned SAIDI	Effect on unplanned SAIFI	Please provide separate explanation to confirm the outage was not due to inadequate transmission connection planning	Cause of event (Use categories listed in table 1, Template 6C)
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					
					0.00					

Note: The AER's *Electricity distribution network service providers*, Service target performance incentive scheme, November 2009, p. 22, defines SAIDI and SAIFI. The AER will apply the ESCV's definition of MAIFI for transitional reasons. The ESCV's Information specification (Service performance) for Victorian Electricity Distributors, 1 January 2009, p. 30, defines MAIFI as follows: MAIFI - The total number of momentary interruptions divided by the average number of distribution customers over the regulatory reporting period. (where the distribution customers are network or per feeder based, as appropriate).

Jemena Electricity Networks (Vic) Limited														
Demand 2013														
Table 1 Customer Numbers by Voltage Level														
Customer numbers by voltage level														
Subtransmission High Votage Low Votage Restense														
Low Voltace Non-Residentia Treal - all restoners	0													
Table 2 New Customer Connections Note: Total customer numbers' is the total average of end of prior year customers an	nd end of current ver	ar customers	1											
New connections														
Total new connections														
New customer connections as a % of total customers	#DIV/01	J												
Table 3 Customer Disconnections Note: "Total customer customers' is the total overage of end of order year customers ar	of end of ourset yes	ar customers	1											
Disconnections														
Total disconnections Disconnections as a % of total customers	#DIV/0!													
Table 4 Electricity Consumption		1												
Electricity consumption by voltage level (MWh)	) 													
Subtransmission Hoh Voltage Low Methods Excelence														
Low Voltage Non-Residentia Controlled load														
Total consumption	1	1												
Table 5 Maximum Coincident Demand at the Network Level Note: a) Maximum Coincident Demand at the Network Level is calculated as the sum b) Forecasts should be the demand forecasts for the relevant regulatory year I	of all maximum coin	cident demand for	r zone substations i	and all feeders fro	m terminal station									
<ul> <li>b) Forecasts should be the demand forecasts for the relevant regulatory year c)t+1 forecasts should be the latest updates to the demand forecasts for the t d) The PoE level only applies to the forecasts</li> </ul>	that were made at th regulatory year t+1.	he time of the regu	ulatory proposal											
				_	tat forecast	1								
Network coincident maximum demand	Forecast	Actual: raw	Actual: weather	Variation %										
20% PoE lave			normalised											
Network coincident maximum demand (MW) Network coincident maximum demand (MVA)	1			#DIVIO #DIVIO			Ashley							
50% PoE lave Network coincident maximum demand (MW/ Network coincident maximum demand (MV/				#DIV/0#										
Network consider maximum performance (avv)				10000										
Network consident meximum demand IMVA Table 6 Summer or winter non-coincident maximum demand by :				#DIV/0# #DIV/0#		1								
c ) The POE level only applies to the forecasts Summer and winter maximum demand - ZS POE level = 50%	Forecast		10/4-	or.		Actual	raw	~		Actual: we	ather normalised			
Summer and winter maximum demand - ZS POE level = 50%	Forecast	MVA	MVAr	PF	MW	Actual MVA	: raw MVAr	PF	MW	Actual: we	ather normalised MVAr	PF #59/03	MW	t+1 MVA
Summer and winter maximum demand - ZS POE level = 50%	Forecast	MVA	MVAr	99 801008 80100 80100	w	Actual MVA	raw MVAr	PF 4DIV01 4DIV01 4DIV01	MW	Actual: we	ather normalised MVAr	#F #D0/01 #D1/01 #D1/01	MW	
Summer and winter maximum demand - ZS oction Zore Substation 1 (AC) - Summer maximum demand Zore Substation 1 (AC) - Writer maximum demand Zore Substation 1 (ACI) - Writer maximum demand Substation relevalopment & charage of womand by policy and 2010 (4)	Forecast	MVA	MVAr	401/08 401/08 401/08	ww	Actual MVA	MVAr	#DIV/01 #DIV/01 #DIV/01	MW	Actual: we	ather normalised MVAr	#DW/W #DW/01 #DW/01	MW	
Summer and winter maximum demand - 25 scalar 2016 - 2018 Scalar (Scalar) 2018 Scalar (Scalar)	Forecast	MVA	MVAr	101/10# 101/10# 101/10# 101/10#	MW	Actual MVA	raw MVAr	#DIVI0 #DIVI0 #DIVI0 #DIVI0 #DIVI0	MW	Actual: we	ather normalised MVAr	10//10a 10//10a 10//10a 10//10a	MW	
Summer and winter maximum demand - 25 scalar 2016 - 2018 Scalar (Scalar) 2018 Scalar (Scalar)	Forecast	MVA	MVAr	101/10# 101/10# 101/10# 101/10# 101/10# 101/10#		Actual MVA	r ławi MV Ar	#DIVIOI #DIVIOI #DIVIOI #DIVIOI #DIVIOI #DIVIOI #DIVIOI	MW	Actual: we	ather normalised MVAr	10/1012 10/102 10/102 10/102 10/102 10/102	MW	
Summer and winter maximum demand - ZS OCE level = 50% Location Zone Substation 1 (AC) - Summer maximum demand Zone Substation 1 (ACI) - Writer maximum demand Zone Substation 1 (ACI) - Writer maximum demand Substation relovatopment & Charley of Journey Substation 20(5)(5)	Forecast	MVA	MVAr	101/10# 101/10# 101/10# 101/10# 101/10#	MW	Actual MVA	raw NVAr	#DIVI01 #DIVI01 #DIVI01 #DIVI01 #DIVI01 #DIVI01	MW	Actual: we MVA	ather normalised MVAr	10//01/28 10//028 10//028 10//028 10//028		
Summar and winter maximum demand - 25 Science 2016 Backdon 11/021. Some means about 2016 Backdon 11/021. Some means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Some means about 2016 B	Forecast	MVA	MVAr	101/10# 101/10# 101/10# 101/10# 101/10# 101/10#	ww	Actual MVA	I FAM	#DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01 #DIV/01	MW	Actual: we MVA	ather normalised MVAr MVAr	00000000000000000000000000000000000000	MW	
Summar and winter maximum demand - 25 series 2016 Series 2016 Serie	Forecast	MVA		NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE	MW	Actual MVA	I AW		MW	Actual: w	after normalised MVAr	101/0018 101/0018 101/0018 101/0018 101/0018 101/0018 101/0018 101/0018 101/0018 101/0018 101/0018	MW	
Summar and winter maximum demand - 25 Science 2016 Battelion 13/01: Service means alread 2016 Battelion 13/01: Service means alread 2016 Battelion because 13/01: Weite means alread 2016 Battelion because 14/04 2016 Battelion because 14/04 2016 Battelion because 14/04 2016 Battelion because 14/04 2016 Battelion 13/04 2016 Battelion 13/04 2016 Battelion 13/04 2016 Battelion 25/05 2016 Battelion 13/04 2016 Battelion 13/04 20	Forecast	MVA	MVA/	NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE NUTCE	MW	Actual MVA	- Caw MVAr	#01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00 #01/00	MW	Actual: we	Ather normalised	10/10/08 10/10/08 10/10/08 10/10/08 10/10/08 10/10/08 10/10/08 10/10/08	MW	
Summar and winter maximum demand - 25 Science 2016 Backdon 11/021. Some means about 2016 Backdon 11/021. Some means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Totte means about 2016 Backdon 14/021. Some means about 2016 B	Forecast	MVA		NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NUTCR NU		Actual MVA				Actual: w	Atter normalised MVW	10000000000000000000000000000000000000	MW	
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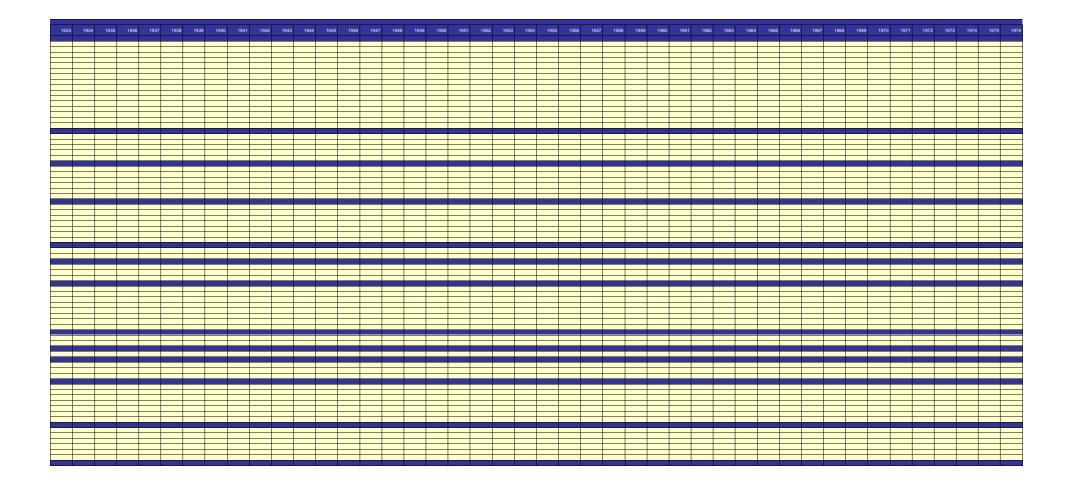
#### Jemena Electricity Networks (Vic) Limited Asset Installation

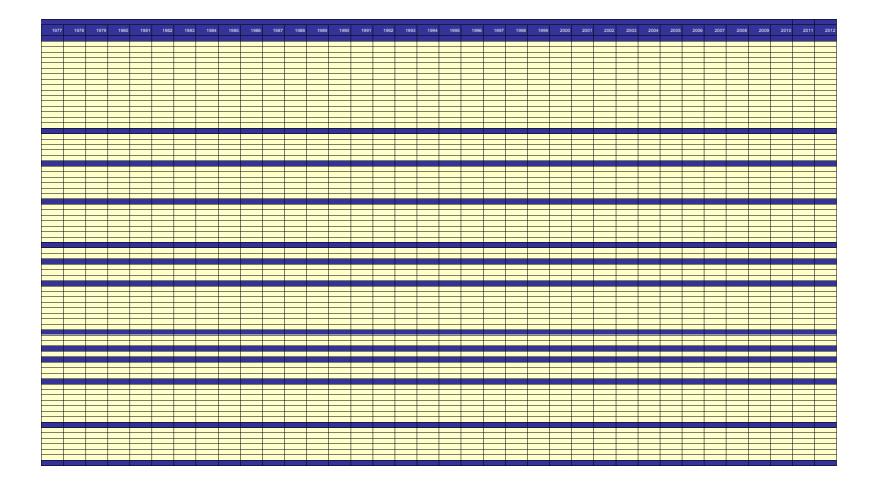
Contents Jemer Asset 2013

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#### Table 1 Asset age profile for distribution system assets Source of Guidance

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## Arr Jemena Electricity Networks (Vic) Limited Customer Service

## 2013 Table 1 Quality of supply

Over voltage events - due to high voltage injection	12
Customers receiving over-voltage - due to high voltage injection	485
Over voltage events - due to lightning	0
Customers receiving over-voltage - due to lightning	0
Over voltage events - due to voltage regulation or other cause	47
Customers receiving over-voltage - due to voltage regulation or other cause	5143
Voltage variations - steady state (zone sub)	72
Voltage variations - one minute (zone sub)	38
Voltage variations - 10 seconds (zone sub) Min<0.7	213
Voltage variations - 10 seconds (zone sub) Min<0.8	321
Voltage variations - 10 seconds (zone sub) Min<0.9	850
Voltage variations - steady state (feeder)	3392
Voltage variations - % zone subs monitored	100%
Voltage variations - % feeders monitored	91%

#### Table 2 Complaints - technical quality of supply

Complaints - technical quality of supply - number	167
Complaints by category (%)	
Low voltage supply	18%
Voltage dips	5%
Voltage swell	1%
Voltage spike (impulsive transient)	1%
TV or radio interference	1%
Noise from appliances	0%
Other	75%
Complaints by Likely Cause (%)	
Network equipment faulty	10%
Network interference by NSP equipment	0%
Network interference by another customer	0%
Network limitation	55%
Customer internal problem	3%
No problem identified	0%
Environmental	0%
Other	32%

#### Table 3 Customer service

Timely provision of services	
Connections made	7409
Connections not made on agreed date	5
Timely repair of faulty streetlights	
Streetlights - average monthly number "out"	255
Streetlights - not repaired by "fix by" date	4
Streetlights - average number of days to repair	3
Total streetlights	69058
Call Centre Performance (number, unless stated)	
Calls to call centre fault line	132673
Calls to fault line not answered within 30 seconds	29097
Calls to fault line - average waiting time before call answered	69
Calls abandoned - percentage	31%
Call centre - number of overload events	1
Customer complaints (number)	
Complaint - reliability of supply	
Complaint - technical quality of supply	167
Complaint - administrative process or customer service	48
Complaint - connection or augmentation	80
Complaint - other	407
Complaint - AMI	890
Total complaints	1610

Note: for Table 3 Calls to Call Centre Fault Line means the total number of calls to the fault line to be reported, including any answered by an automated response service and terminated without being answered by an operator. Excludes missed calls where the fault line is overloaded.

#### JEN's explanatory notes

1 Voltage variations - steady state (zone sub) (cell H12)

An investigation will be carried out to identify the reasons of the increase in the number of steady state (>60 Sec) voltage variation events from zone substation PQ meter ES (Essendon Zone Substation) and ST (Somerton Zone Substation) which has largest contribution to these events.

2 Voltage variations - one minute (zone sub) (cell H13)

An investigation will be carried out to identify the reasons of the increase in the number of voltage variation events (one minute >10 sec & <60 sec) from zone substation PQ meter FW (Footscray West Zone Substation) which has largest contribution to these events.

3 Voltage variations - steady state (feeder) (cell H17)

The steady state voltage variations at end of feeders are still high for year 2013 as compared to year 2012. Jemena will carry out an investigation to identify the reasons for increase in the number of events from end of feeder meters BY14 (Braybrook), CS2 (Coburg South), EP3 (East Preston), FE6 (Footscray East) , FF90 (Fairfield), SHM14 (Sydenham) and YTS8 (Yarraville)

4 Voltage variations - % feeders monitored (cell H19)

Due to customer initiated project, one of the end of feeder PQ meter at AW (Airport West) zone substation area was taken out The meter will be put back to service at another site in January 2014. The other end-of-feeder power quality meter which is nol It will not be re-installed until the feeder topology conversion work has been completed.

# Jemena Electricity Networks (Vic) Limited General Information 2013 Table 1 General Information

		By type of	customer	Bv	supply voltag	e	
Number of metered supply points	Total no.	Domestic	Non-Domestic	ST	HV	LV	
CBD	0	Donioono					
Urban	295,992	268,959	27,033	3	75	295,914	
Rural Short	15,275	14,469	806	0	3	15,272	
Rural Long	0	11,100	000		Ű	10,212	
i tarai Eong							
Total number of metered supply points	311,267	283,428	27,839	3	78	311,186	
	011,201	200,420	21,000			011,100	
Number of unmetered supply points	CBD	Urban	Short Rural	Long Rural			
Total no.		6.837	190				
Energy delivered (GWh)	Total CW/h	By type of	customer	By	supply voltag	e	
Energy delivered (Gwn)	Total GWh	Domestic	Non-Domestic	ST	HV	LV	
CBD	0						
Urban	0						
Rural Short	0						
Rural Long	0						
Total energy	4,254	1,257	2,997	315	696	3,243	
	,	/	,			.,	
Line length (km)	Total km	L	Inderground		(	Overhead	
	TOTALKI	ST	HV	LV	ST	HV	L\
CBD	0						
Urban	5,261	15	564	838	272	1,196	2,
Rural Short	875	4	71	188	59	484	
Rural Long	0						
Total line length	6,136	19	635	1,026	331	1,680	2,
Number and total capacity of transformers	Total no.	Capacity (MVA)					
Distribution	6,077	2,436					
Zone substations	61	1,633					
Total	6,138	4,069					
Customer numbers							
Sub transmission	3						
High voltage	78						
Low voltage - residential	283,428						
Low voltage - non-residential	34,785						
Total customer numbers	318,294						
	510,254						
	510,234						
Number of poles	· · · ·						
	4,635						
<b>Number of poles</b> Sub transmission Distribution	4,635 74,234						
Sub transmission Distribution	4,635						
Sub transmission Distribution Total	4,635 74,234						
Sub transmission Distribution	4,635 74,234						
Sub transmission Distribution Total	4,635 74,234						
Sub transmission Distribution Total Other information	4,635 74,234 78,869						

Note: Distribution Loss factors are to be reported on a financial year basis



# Jemena Electricity Networks (Vic) Limited Contents Planned Outages

2013

Table 1 Planned Outages

Date (DD/MM/YYYY)	Feeder ID / name	Feeder Classification	Reason for planned outage	Number of customers interrupted	Duration of interruption (mins)	Total minutes off supply (planned)	Effect on planned SAIDI	Effect on planned SAIFI	Effect on planned MAIFI
2/01/2013	CN 04	Urban	Regular Maintenance	8	115	920	0.68	0.01	0.00
5/01/2013	TT 10	Urban	Replace Overhead Assets	9	260	2,340	0.54	0.00	0.00
6/01/2013	AW 06	Urban	Replace Overhead Assets	24	450	10,800	2.21	0.00	0.00
7/01/2013	HB 14	Urban	Regular Maintenance	1	390	390	0.23	0.00	0.00
8/01/2013	AW 08	Urban	Upgrade Capacity - subs and LV	184	357	65,688	28.04	0.08	0.00
8/01/2013	CN 06	Urban	Regular Maintenance	35	135	4,725	2.27	0.02	0.00
8/01/2013	HB 24	Urban	Regular Maintenance	3	150	450	0.51	0.00	0.00
8/01/2013	TT 10	Urban	Regular Maintenance	3	300	900	0.21	0.00	0.00
9/01/2013	CN 04	Urban	Regular Maintenance	8	330	2,640	1.94	0.01	0.00
9/01/2013	TT 10	Urban	Replace Overhead Assets	3	290	870	0.20	0.00	0.00
11/01/2013	COO11	Rural-short	Regular Maintenance	3	185	555	0.34	0.00	0.00
14/01/2013	HB 14	Urban	Replace Overhead Assets	46	235	10,810	6.33	0.03	0.00
14/01/2013	NT 04	Urban	Improving Reliability	14	385	5,390	3.38	0.01	0.00
15/01/2013	CN 04	Urban	Replace Overhead Assets	11	420	4,620	3.40	0.01	0.00
15/01/2013	HB 14	Urban	Replace Overhead Assets	61	185	8,555	5.01	0.04	0.00
15/01/2013	SBY11	Rural-short	Regular Maintenance	13	120	1,560	0.52	0.00	0.00
16/01/2013	EP 36	Urban	Replace Overhead Assets	10	480	4,800	5.07	0.01	0.00
16/01/2013	HB 14	Urban	Replace Overhead Assets	17	230	3,910	2.29	0.01	0.00
16/01/2013	NT 04	Urban	Improving Reliability	28	338	9,464	5.93	0.02	0.00
16/01/2013	SBY11	Rural-short	Regular Maintenance	3	50	150	0.05	0.00	0.00
16/01/2013	SBY14	Rural-short		1	70	70	0.02	0.00	0.00
16/01/2013	SHM14	Urban	Upgrade Capacity - subs and LV	103	445	45,835	12.02	0.03	0.00
17/01/2013	CN 04	Urban	Replace Overhead Assets	45	140	6,300	4.63	0.03	0.00
17/01/2013	FF 96	Urban	Regular Maintenance	2	300	600	0.59	0.00	0.00
18/01/2013	AW 14	Urban	Replace Overhead Assets	34	390	13,260	10.58	0.03	0.00
18/01/2013	TT 10	Urban	Replace Overhead Assets	31	404	12,524	2.86	0.01	0.00
18/01/2013	TT 10	Urban	Upgrade Capacity - subs and LV	11	120	1,320	0.30	0.00	0.00

19/01/2013	CN 02	Urban	Regular Maintenance	21	375	7,875	17.54	0.05	0.00
19/01/2013	ST 34	Urban	Replace Overhead						
19/01/2013	51 34	Urban	Assets	16	402	6,432	21.37	0.05	0.00
20/01/2013	TT 10	Urban	Upgrade Capacity -						
20/01/2010	11.10	orban	subs and LV	31	390	12,090	2.76	0.01	0.00
21/01/2013	FW 08	Urban	Replace Overhead		070	4.404	0.00	0.00	0.00
			Assets	4	276	1,104	0.38	0.00	0.00
21/01/2013	PV 15	Urban	Replace Overhead Assets	42	342	14,364	8.43	0.02	0.00
22/01/2013	C0011	Rural-short	Regular Maintenance	59	345	15,427	9.40	0.02	0.00
			Replace Overhead		343	15,427	9.40	0.04	0.00
22/01/2013	NT 11	Urban	Assets	17	345	5,865	1.72	0.00	0.00
22/01/2013	SBY14	Rural-short	Regular Maintenance	12	225	2,700	0.67	0.00	0.00
			Ungrade Canacity -			_,			
23/01/2013	AW 08	Urban	subs and LV	101	445	44,945	19.18	0.04	0.00
00/01/0010	<b>DD</b> 44	114	Replace Overhead			,			
23/01/2013	BD 11	Urban	Assets	3	60	180	0.06	0.00	0.00
23/01/2013	NT 11	Urban	Replace Overhead						
			Assets	33	255	8,415	2.46	0.01	0.00
24/01/2013	COO11	Rural-short	Regular Maintenance	110	303	33,330	20.31	0.07	0.00
24/01/2013	NT 04	Urban	Improving Reliability	15	393	5,895	3.69	0.01	0.00
24/01/2013	SBY14	Rural-short		42	195	8,190	2.04	0.01	0.00
25/01/2013	COO13	Urban	Replace Underground	0		400	0.00	0.00	0.00
			Assets	2	60	120	0.03	0.00	0.00
25/01/2013	NT 11	Urban	Replace Overhead Assets	28	220	6,160	1.00	0.01	0.00
26/01/2013	NS 15	Urban	Regular Maintenance	73	120	7.220	1.80 4.67	0.01	0.00
20/01/2013		Urban	Replace Overhead	15	120	7,220	4.07	0.05	0.00
27/01/2013	CN 05	Urban	Assets	17	206	3,502	0.89	0.00	0.00
			Replace Overhead		200	0,002	0.00	0.00	0.00
27/01/2013	CS 05	Urban	Assets	3	345	1,035	0.22	0.00	0.00
29/01/2013	CN 06	Urban	Regular Maintenance	6	270	1,620	0.78	0.00	0.00
30/01/2013	AW 02	Urban		39	181	7,059	2.30	0.01	0.00
	FF 87	L lub e e	Replace Overhead						
30/01/2013	FF 87	Urban	Assets	75	295	22,125	22.79	0.08	0.00
30/01/2013	SHM11	Rural-short	Upgrade Capacity -						
30/01/2013	3111/11	Ruiai-siloit	subs and LV	2	355	710	0.68	0.00	0.00
30/01/2013	YTS07	Urban	Replace Overhead						
00/01/2010	11001	orban	Assets	13	407	5,291	5.72	0.01	0.00
31/01/2013	CS 05	Urban	Replace Overhead	4-		0.477	0.10	0.00	0.00
			Assets	15 242	145	2,175	0.46	0.00	0.00
31/01/2013	NH 05	Urban	Regular Maintenance		140	33,880	7.51	0.05	0.00
31/01/2013	SBY14	Rurai-short	Regular Maintenance	1	128	128	0.03	0.00	0.00
1/02/2013	CN 08	Urban	Replace Overhead Assets	111	401	44,511	21.88	0.05	0.00
			Replace Overhead	111	401	44,511	21.00	0.05	0.00
1/02/2013	TT 08	Urban	Assets	10	175	1,750	0.71	0.00	0.00
			Upgrade Capacity -	10	110	1,700	0.71	0.00	0.00
2/02/2013	NH 03	Urban	subs and LV	2	450	900	0.70	0.00	0.00
2/02/2013	ST 14	Urban	Regular Maintenance	1	346	346	4.38	0.01	0.00
3/02/2013	CN 02		Regular Maintenance	1	258	258	0.57	0.00	0.00
			<u> </u>						

3/02/2013	CS 08	Urban	Replace Overhead Assets	85	356	30,260	10.26	0.03	0.00
			Replace Overhead	60	330	30,200	10.20	0.03	0.00
3/02/2013	EP 42	Urban	Assets	8	460	3,680	12.19	0.03	0.00
4/02/2013	FF 96	Urban	Upgrade Capacity - subs and LV	149	345	51,405	50.15	0.15	0.00
4/02/2013	NT 04	Urban	Upgrade Capacity - subs and LV	12	105	1,260	0.79	0.01	0.00
4/02/2013	ST 22	Urban	Replace Overhead Assets	4	180	720	0.12	0.00	0.00
4/02/2013	TT 08	Urban	Replace Underground Assets	40	59	2,360	0.96	0.02	0.00
5/02/2013	BD 14	Urban	Replace Overhead Assets	63	282	17,766	31.33	0.11	0.00
5/02/2013	ES 13	Urban	Replace Overhead Assets	32	220	7,040	3.83	0.02	0.00
5/02/2013	SBY14	Rural-short	Regular Maintenance	20	205	4,100	1.02	0.00	0.00
6/02/2013	C0011	Rural-short	U	1	142	142	0.09	0.00	0.00
6/02/2013	HB 15	Urban	Upgrade Capacity - subs and LV	36	210	7,560	3.16	0.02	0.00
7/02/2013	HB 14	Urban	Replace Overhead Assets	26	184	4,784	2.80	0.02	0.00
7/02/2013	SBY32	Rural-short	Regular Maintenance	6	185	1,110	0.38	0.00	0.00
7/02/2013	ST 32	Urban		1	43	43	0.01	0.00	0.00
8/02/2013	BD 07	Urban	Replace Overhead Assets	11	195	2,145	0.54	0.00	0.00
8/02/2013	CN 06	Urban	Replace Overhead Assets	67	197	13,199	6.35	0.03	0.00
8/02/2013	HB 15	Urban	Replace Overhead Assets	16	250	4,000	1.67	0.01	0.00
9/02/2013	BD 08	Urban	Replace Overhead Assets	20	453	9,060	11.89	0.03	0.00
9/02/2013	FF 89	Urban	Regular Maintenance	2	187	374	1.03	0.01	0.00
9/02/2013	ST 22	Urban	Upgrade Capacity - subs and LV	3	447	1,341	0.22	0.00	0.00
10/02/2013	AW 04	Urban	Regular Maintenance	30	280	8,400	4.33	0.02	0.00
10/02/2013	AW 04	Urban	Upgrade Capacity - subs and LV	8	360	2,880	1.48	0.00	0.00
10/02/2013	CN 04	Urban	Regular Maintenance	46	105	4,830	3.55	0.03	0.00
10/02/2013	CS 12	Urban	Regular Maintenance	4	345	1,380	0.71	0.00	0.00
11/02/2013	CN 02	Urban	Regular Maintenance	1	290	290	0.65	0.00	0.00
12/02/2013	HB 14	Urban	Replace Overhead Assets	10	369	3,690	2.16	0.01	0.00
13/02/2013	CS 02	Urban	Replace Overhead Assets	55	296	11,826	2.15	0.01	0.00
13/02/2013	HB 14	Urban	Replace Overhead Assets	21	230	4,830	2.83	0.01	0.00
14/02/2013	BD 07	Urban	Replace Overhead Assets	11	230	2,530	0.64	0.00	0.00
14/02/2013	FT 01	Urban	Upgrade Capacity - subs and LV	28	415	11,620	3.19	0.01	0.00

15/02/2013	FF 95	Urban	Replace Overhead						
15/02/2013	FF 95	Urban	Assets	30	175	5,250	3.20	0.02	0.00
15/02/2013	HB 14	Urban	Replace Overhead Assets	24	214	5,136	3.01	0.01	0.00
17/02/2013	AW 06	Urban	Upgrade Capacity - subs and LV	33	390	12,870	2.64	0.01	0.00
17/02/2013	NT 11	Urban	Replace Overhead Assets	19	400	7,600	2.22	0.01	0.00
19/02/2013	BD 01	Urban	Replace Overhead Assets	5	235	1,175	0.70	0.00	0.00
19/02/2013	CN 10	Urban	Upgrade Capacity - subs and LV	45	90	4,050	2.08	0.02	0.00
19/02/2013	FF 87	Urban	Replace Overhead Assets	69	65	4,485	4.62	0.07	0.00
19/02/2013	ST 22	Urban	Regular Maintenance	34	355	12,070	2.01	0.01	0.00
20/02/2013	AW 07	Urban	Replace Overhead Assets	56	275	15,400	3.38	0.01	0.00
20/02/2013	HB 24	Urban	Replace Overhead Assets	20	264	5,280	6.03	0.02	0.00
21/02/2013	BD 11	Urban	Upgrade Capacity - subs and LV	5	365	1,825	0.65	0.00	0.00
21/02/2013	CS 02	Urban	Replace Overhead Assets	97	270	26,190	4.76	0.02	0.00
22/02/2013	CS 03	Urban	Replace Overhead Assets	21	235	4,935	1.29	0.01	0.00
23/02/2013	BD 11	Urban	Regular Maintenance	1	550	550	0.20	0.00	0.00
23/02/2013	BD 13	Urban	Upgrade Capacity - subs and LV	3	275	825	1.61	0.01	0.00
23/02/2013	ES 11	Urban	Regular Maintenance	25	215	5,375	3.45	0.02	0.00
23/02/2013	SHM11	Rural-short		2	232	464	0.45	0.00	0.00
24/02/2013	FW 09	Urban	Replace Overhead Assets	17	318	5,406	3.83	0.01	0.00
24/02/2013	HB 15	Urban	Tree Clearing Urban	67	126	8,442	3.53	0.03	0.00
24/02/2013	HB 15	Urban	Upgrade Capacity - subs and LV	52	238	4,522	1.89	0.02	0.00
25/02/2013	BD 15	Urban	Regular Maintenance	3	354	1,062	1.32	0.00	0.00
27/02/2013	COO11	Rural-short	Assets	16	296	4,736	2.89	0.01	0.00
27/02/2013	CS 02	Urban	Replace Overhead Assets	37	300	11,100	2.02	0.01	0.00
27/02/2013	NS 09	Urban	Replace Underground Assets	21	245	5,145	5.38	0.02	0.00
28/02/2013	CN 10	Urban	Replace Overhead Assets	10	150	4,522	2.32	0.01	0.00
28/02/2013	COO11	Rural-short		8	292	2,336	1.42	0.00	0.00
28/02/2013	CS 02	Urban	Replace Overhead Assets	151	243	36,693	6.67	0.03	0.00
28/02/2013	SBY14	Rural-short	Replace Overhead Assets	8	178	1,424	0.35	0.00	0.00
1/03/2013	SBY32	Rural-short	Regular Maintenance	58	20	1,160	0.40	0.02	0.00
1/03/2013	SHM11	Rural-short	Upgrade Capacity - subs and LV	2	255	510	0.49	0.00	0.00

2/03/2013	BY 12	Urban	Regular Maintenance	1	80	80	0.06	0.00	0.00
2/03/2013	NH 03	Urban	Upgrade Capacity -						
2/03/2013	NH 03	Ulball	subs and LV	16	428	6,848	5.30	0.01	0.00
3/03/2013	AW 06	Urban	Replace Overhead						
			Assets	17	220	3,740	0.77	0.00	0.00
3/03/2013	AW 11	Urban	Improving Reliability	16	368	5,888	12.45	0.03	0.00
3/03/2013	FW 13	Urban	Regular Maintenance	4	360	1,440	3.05	0.01	0.00
4/03/2013	FW 16	Urban	Replace Overhead Assets	29	215	6.235	2.46	0.01	0.00
			Replace Overhead	29	210	0,233	2.40	0.01	0.00
5/03/2013	FF 88	Urban	Assets	43	45	1,935	1.54	0.03	0.00
			Replace Overhead	+5	+5	1,000	1.54	0.03	0.00
6/03/2013	BD 07	Urban	Assets	31	170	5,270	1.33	0.01	0.00
			Upgrade Capacity -			0,210	1.00	0.01	0.00
6/03/2013	FW 16	Urban	subs and LV	23	366	8,418	3.33	0.01	0.00
			Replace Overhead			5,5			
7/03/2013	FF 96	Urban	Assets	13	235	3,055	2.98	0.01	0.00
7/00/0040	TT 44	11.4	Upgrade Capacity -			,			
7/03/2013	TT 11	Urban	subs and LV	13	313	4,069	0.82	0.00	0.00
8/03/2013	BY 15	Urban	Regular Maintenance	4	35	140	0.14	0.00	0.00
8/03/2013	CN 10	Urban	Replace Overhead						
0/03/2013	CN 10	Urban	Assets	8	295	2,360	1.21	0.00	0.00
8/03/2013	HB 14	Urban	Replace Overhead						
0/03/2013		Ulban	Assets	11	55	605	0.35	0.01	0.00
9/03/2013	AW 12	Urban	Replace Overhead						
			Assets	35	195	6,825	3.83	0.02	0.00
9/03/2013	BY 13	Urban	Regular Maintenance	7	90	630	0.84	0.01	0.00
9/03/2013	CS 02	Urban	Replace Overhead	_	400	000	0.44	0.00	0.00
			ASSEIS	5	120	600	0.11	0.00	0.00
9/03/2013	FF 95	Urban	Replace Overhead Assets	6	170	1 0 2 0	0.62	0.00	0.00
10/03/2013	BY 12	Linhan		0	170 34	1,020 34	0.02	0.00	0.00
10/03/2013		Urban	Upgrade Capacity -	1		34	0.03	0.00	0.00
10/03/2013	FE 05	Urban	subs and LV	55	345	18,975	6.18	0.02	0.00
			Replace Overhead		0-10	10,010	0.10	0.02	0.00
12/03/2013	HB 14	Urban	Assets	5	205	1,025	0.60	0.00	0.00
13/03/2013	C0011	Rural-short	Improving Reliability	1	120	120	0.07	0.00	0.00
			Replace Overhead				0.0.	0.00	0.00
13/03/2013	HB 14	Urban	Assets	21	205	4,305	2.52	0.01	0.00
10/00/00 10			Replace Overhead			,			
13/03/2013	HB 15	Urban	Assets	9	100	900	0.38	0.00	0.00
40/00/0040	00)((1)	Dural altern	Replace Overhead						
13/03/2013	SBY14	Rural-short	Assets	194	224	43,456	10.80	0.05	0.00
14/02/2012	FW 17	Urban	Replace Overhead						
14/03/2013	F VV 17	Urban	Assets	186	388	72,168	31.89	0.08	0.00
14/03/2013	HB 15	Urban	Replace Overhead						
			Assets	14	259	3,626	1.52	0.01	0.00
14/03/2013	NT 11	Urban	Regular Maintenance	12	240	2,880	0.84	0.00	0.00
14/03/2013	TT 03	Urban	Replace Overhead						
			Assets	2	176	352	0.10	0.00	0.00
14/03/2013	TT 08	Urban	Regular Maintenance	19	240	4,560	1.86	0.01	0.00

15/03/2013	CS 05	Urban	Replace Overhead Assets	56	280	15.680	3.32	0.01	0.00
15/03/2013	FF 95	Urban	Replace Overhead Assets	19	240	4,560	2.78	0.01	0.00
15/03/2013	NH 16	Urban	Replace Overhead Assets	26	195	5,070	2.01	0.01	0.00
16/03/2013	BD 04	Urban	Regular Maintenance	20	195	135	0.13	0.00	0.00
16/03/2013	BD 04 BD 16	Urban	Regular Maintenance	129	315	40,635	28.14	0.00	0.00
16/03/2013	BD 10 BY 15	Urban	Regular Maintenance	5	112	560	0.57	0.00	0.00
16/03/2013	YTS04	Urban	Regular Maintenance	12	330	3,960	5.13	0.02	0.00
17/03/2013	YTS04	Urban	Replace Overhead Assets	155	450	69,750	90.35	0.20	0.00
18/03/2013	FT 10	Urban	Improving Reliability	73	195	14,235	6.95	0.20	0.00
10/03/2013	FIIU		Replace Overhead	15	195	14,200	0.95	0.04	0.00
19/03/2013	FF 96	Urban	Assets	16	270	4,320	4.21	0.02	0.00
20/03/2013	FT 01	Urban	Regular Maintenance	3	210	630	0.17	0.00	0.00
20/03/2013	FT 10	Urban	Improving Reliability	18	232	4,176	2.04	0.01	0.00
20/03/2013	SBY11	Rural-short	Replace Overhead Assets	27	310	8,370	2.82	0.01	0.00
20/03/2013	SHM11	Rural-short	Regular Maintenance	3	100	300	0.29	0.00	0.00
22/03/2013	CS 02	Urban	Replace Overhead Assets	28	180	5,040	0.92	0.01	0.00
22/03/2013	HB 15	Urban	Regular Maintenance	4	270	1,080	0.45	0.00	0.00
22/03/2013	SBY11	Rural-short	Regular Maintenance	2	131	262	0.09	0.00	0.00
23/03/2013	AW 11	Urban	Upgrade Capacity - subs and LV	4	390	1,560	3.30	0.01	0.00
23/03/2013	BD 11	Urban	Regular Maintenance	3	90	270	0.10	0.00	0.00
23/03/2013	HB 15	Urban	Replace Overhead Assets	3	180	540	0.23	0.00	0.00
24/03/2013	C0011	Rural-short	Road Works Council	182	575	104,650	63.77	0.11	0.00
24/03/2013	FW 04	Urban	Regular Maintenance	46	95	4,370	3.04	0.03	0.00
24/03/2013	NT 10	Urban	Regular Maintenance	1	135	135	0.13	0.00	0.00
24/03/2013	SBY31	Urban	Upgrade Capacity - subs and LV	60	465	27,900	13.22	0.03	0.00
25/03/2013	FF 88	Urban	Replace Overhead Assets	8	140	1,120	0.89	0.01	0.00
25/03/2013	FF 95	Urban	Replace Overhead Assets	9	185	1,665	1.01	0.01	0.00
25/03/2013	HB 24	Urban	Replace Overhead Assets	4	90	360	0.41	0.00	0.00
25/03/2013	ST 33	Urban	Upgrade Capacity - subs and LV	4	225	900	0.28	0.00	0.00
26/03/2013	CS 02	Urban	Regular Maintenance	21	140	2,940	0.53	0.00	0.00
26/03/2013	NS 08	Urban	Upgrade Capacity - subs and LV	12	113	1,356	1.18	0.01	0.00
26/03/2013	SBY14	Rural-short	Improving Reliability	239	194	4,030	1.10	0.06	0.00
28/03/2013	HB 14	Urban	Regular Maintenance	4	200	800	0.47	0.00	0.00
3/04/2013	FF 87	Urban	Regular Maintenance	32	150	4,800	4.94	0.03	0.00
3/04/2013	NH 08	Urban	Replace Overhead Assets	19	280	5,320	2.04	0.03	0.00
3/04/2013	SHM14	Urban	Regular Maintenance	26	189	4.914	1.29	0.01	0.00
4/04/2013	CN 03	Urban	0	34	375	12,750	4.92	0.01	0.00
4/04/2013	CIN U3	Urban	Regular Maintendlice	J <del>4</del>	515	12,750	4.32	0.01	0.00

4/04/2013	NH 02	Urban	Regular Maintenance	46	350	16,100	3.81	0.01	0.00
4/04/2013	SHM14	Urban	Upgrade Capacity - subs and LV	9	171	1,539	0.40	0.00	0.00
4/04/2013	TT 11	Urban	Replace Overhead Assets	25	220	5,500	1.11	0.01	0.00
5/04/2013	ST 32	Urban	Replace Overhead Assets	3	540	1,620	0.27	0.00	0.00
6/04/2013	AW 09	Urban	Upgrade Capacity - subs and LV	3	403	1,209	0.49	0.00	0.00
6/04/2013	BD 04	Urban	Replace Overhead Assets	73	205	14,965	14.32	0.07	0.00
6/04/2013	BY 14	Urban	Regular Maintenance	1	120	120	0.04	0.00	0.00
7/04/2013	CN 05	Urban	Replace Overhead Assets	7	265	1,855	0.47	0.00	0.00
7/04/2013	FW 04	Urban	Upgrade Capacity - subs and LV	25	240	6,000	4.17	0.02	0.00
7/04/2013	NT 03	Urban	Regular Maintenance	2	480	960	0.30	0.00	0.00
7/04/2013	NT 15	Urban	Regular Maintenance	6	61	366	0.34	0.01	0.00
8/04/2013	HB 24	Urban	Regular Maintenance	1	120	120	0.14	0.00	0.00
9/04/2013	AW 06	Urban	Upgrade Capacity - subs and LV	18	285	5,130	1.05	0.00	0.00
9/04/2013	TT 10	Urban	Replace Overhead Assets	36	225	8,100	1.85	0.01	0.00
10/04/2013	HB 14	Urban	Replace Overhead Assets	12	225	2,700	1.58	0.01	0.00
10/04/2013	HB 24	Urban	Replace Overhead Assets	23	315	7,245	8.28	0.03	0.00
11/04/2013	CN 03	Urban	Regular Maintenance	34	488	16,592	6.41	0.01	0.00
11/04/2013	SBY14	Rural-short	Replace Overhead Assets	194	450	87,300	21.70	0.05	0.00
12/04/2013	HB 14	Urban	Replace Overhead Assets	39	210	8,190	4.80	0.02	0.00
12/04/2013	HB 15	Urban	Replace Overhead Assets	77	334	25,718	10.76	0.03	0.00
13/04/2013	FF 89	Urban	Upgrade Capacity - subs and LV	62	485	30,070	82.61	0.17	0.00
13/04/2013	ST 13	Urban	Upgrade Capacity - subs and LV	1	308	308	1.63	0.01	0.00
14/04/2013	CN 06	Urban	Regular Maintenance	2	180	360	0.17	0.00	0.00
15/04/2013	SBY32	Rural-short	Replace Overhead Assets	7	610	4,270	1.47	0.00	0.00
16/04/2013	HB 23	Urban	Replace Overhead Assets	85	218	18,530	12.52	0.06	0.00
16/04/2013	SBY32	Rural-short	Replace Overhead Assets	4	500	2,000	0.69	0.00	0.00
17/04/2013	FF 88	Urban	Upgrade Capacity - subs and LV	95	410	38,950	31.04	0.08	0.00
17/04/2013	SBY32	Rural-short	Replace Overhead Assets	8	495	3,960	1.37	0.00	0.00
18/04/2013	EP 34	Urban	Improving Reliability	5	115	575	0.40	0.00	0.00
18/04/2013	HB 24	Urban	Replace Overhead Assets	37	260	9,620	10.99	0.04	0.00

			Replace Overhead						
19/04/2013	FE 08	Urban	Assets	5	120	600	0.27	0.00	0.00
19/04/2013	PV 13	Urban	Upgrade Capacity -						
			subs and LV	69	330	22,770	7.34	0.02	0.00
19/04/2013	PV 31	Urban	Regular Maintenance	3	180	540	0.28	0.00	0.00
20/04/2013	BD 04	Urban	Upgrade Capacity - subs and LV	2	315	630	0.60	0.00	0.00
20/04/2013	BY 14	Urban	Regular Maintenance	4	75	300	0.00	0.00	0.00
	1		Upgrade Capacity -		15	500	0.10	0.00	0.00
20/04/2013	PV 13	Urban	subs and LV	164	312	51,168	16.50	0.05	0.00
21/04/2013	AW 03	Urban	Upgrade Capacity -						
21/04/2013	AW 03	Ulball	subs and LV	10	320	3,200	12.55	0.04	0.00
21/04/2013	CN 08	Urban	Upgrade Capacity -						
			subs and LV	1	350	350	0.17	0.00	0.00
22/04/2013	NH 08	Urban	Regular Maintenance	3	179	537	0.21	0.00	0.00
22/04/2013	PV 23	Urban	Regular Maintenance	2	60	120	0.05	0.00	0.00
23/04/2013	TT 10	Urban	Replace Overhead Assets	23	130	2.990	0.68	0.01	0.00
			Replace Overhead	23	130	2,990	0.00	0.01	0.00
24/04/2013	COO11	Rural-short	Assets	28	520	14,560	8.87	0.02	0.00
24/04/2013	YTS03	Urban	Regular Maintenance	1	360	360	0.55	0.02	0.00
26/04/2013	CN 08	Urban	Regular Maintenance	4	474	1,896	0.93	0.00	0.00
			Replace Overhead			1,000	0.00	0.00	0.00
26/04/2013	HB 22	Urban	Assets	10	195	1,950	1.72	0.01	0.00
26/04/2013	P 62	Urban	Regular Maintenance	27	330	8,910	13.28	0.04	0.00
27/04/2013	NH 09	Urban	Upgrade Capacity -						
21/04/2013		Urban	subs and LV	36	345	11,790	18.54	0.06	0.00
28/04/2013	CS 08	Urban	Replace Overhead						
			Assets	91	360	32,760	11.11	0.03	0.00
29/04/2013	CN 05	Urban	Regular Maintenance	20	235	4,700	1.19	0.01	0.00
29/04/2013	FF 88	Urban	Regular Maintenance	8	360	2,880	2.29	0.01	0.00
29/04/2013	SBY32	Rural-short		4	195	321	0.11	0.00	0.00
30/04/2013	CS 05	Urban	Replace Overhead Assets	55	270	14,850	3.15	0.01	0.00
			Replace Overhead	55	270	14,000	5.15	0.01	0.00
30/04/2013	PV 14	Urban	Assets	47	355	16,685	6.05	0.02	0.00
30/04/2013	SBY32	Rural-short	Improving Reliability	3	430	1.290	0.44	0.02	0.00
			Upgrade Capacity -	v	100	1,200	0.11	0.00	0.00
30/04/2013	SHM14	Urban	subs and LV	103	482	49,646	13.02	0.03	0.00
4/05/00/0			Replace Overhead			.,			
1/05/2013	FF 88	Urban	Assets	43	256	11,008	8.77	0.03	0.00
1/05/2013	HB 15	Urban	Replace Overhead						
		Urban	Assets	122	180	21,960	9.19	0.05	0.00
1/05/2013	SBY32	Rural-short		3	170	510	0.18	0.00	0.00
2/05/2013	CN 04	Urban	Regular Maintenance	1	120	120	0.09	0.00	0.00
2/05/2013	C0011	Rural-short	Regular Maintenance	9	279	2,511	1.53	0.01	0.00
2/05/2013	HB 14	Urban	Replace Overhead	407	047	22.000	10.01	0.00	0.00
			Assets	<u>137</u> 2	247 158	33,839 316	19.81 0.11	0.08	0.00 0.00
2/05/2013 3/05/2013	SBY32 FF 95	Rural-short Urban		2	118	236	0.11	0.00	0.00
			Replace Overhead	2	110	230	0.14	0.00	0.00
3/05/2013	HB 15	Urban	Assets	58	75	4,350	1.82	0.02	0.00
			733613	00	15	7,000	1.02	0.02	0.00

			Upgrade Capacity -						
4/05/2013	PV 13	Urban	subs and LV	1	236	236	0.08	0.00	0.00
5/05/2013	AW 01	Urban	Regular Maintenance	14	345	4,830	6.66	0.02	0.00
6/05/2013	CN 06	Urban	Regular Maintenance	6	120	720	0.35	0.00	0.00
6/05/2013	CS 05	Urban	Replace Overhead Assets	14	288	4,032	0.85	0.00	0.00
7/05/2013	SBY14	Rural-short	Replace Overhead Assets	194	463	89,822	22.33	0.05	0.00
7/05/2013	TT 03	Urban	Replace Overhead Assets	57	215	12,255	3.65	0.02	0.00
8/05/2013	YTS06	Urban	Replace Overhead Assets	18	256	4,608	5.39	0.02	0.00
9/05/2013	NT 17	Urban	Replace Overhead Assets	72	110	7,920	2.83	0.03	0.00
10/05/2013	HB 15	Urban	Replace Overhead Assets	1	60	60	0.03	0.00	0.00
10/05/2013	NT 17	Urban	Replace Overhead Assets	15	98	1,470	0.53	0.00	0.00
11/05/2013	HB 24	Urban	Replace Overhead Assets	15	70	1,050	1.20	0.01	0.00
11/05/2013	PV 24	Urban	Regular Maintenance	13	26	26	0.02	0.02	0.00
			Replace Overhead						
13/05/2013	HB 14	Urban	Assets	3	70	210	0.12	0.00	0.00
13/05/2013	NH 05	Urban	Regular Maintenance	69	225	15,525	3.44	0.02	0.00
13/05/2013	SBY32	Rural-short	Improving Reliability	4	485	1,940	0.67	0.00	0.00
14/05/2013	SBY32	Rural-short	Regular Maintenance	13	131	1,703	0.59	0.00	0.00
14/05/2013	TT 10	Urban	Regular Maintenance	31	225	6,975	1.60	0.01	0.00
15/05/2013	CS 02	Urban	Replace Overhead Assets	12	250	3,000	0.55	0.00	0.00
15/05/2013	PV 12	Urban	Replace Overhead Assets	33	245	8,085	17.31	0.07	0.00
15/05/2013	TT 11	Urban	Regular Maintenance	13	170	2,210	0.45	0.00	0.00
16/05/2013	CN 07	Urban	Regular Maintenance	6	225	1,350	0.25	0.00	0.00
16/05/2013	HB 14	Urban	Regular Maintenance	5	275	1,375	0.81	0.00	0.00
17/05/2013	AW 06	Urban	Replace Overhead Assets	68	220	14,960	3.07	0.01	0.00
17/05/2013	CS 03	Urban	Improving Reliability	1	450	450	0.12	0.00	0.00
17/05/2013	HB 22	Urban	Regular Maintenance	43	300	12,900	11.39	0.04	0.00
17/05/2013	NH 05	Urban	Replace Overhead Assets	7	240	1,680	0.37	0.00	0.00
18/05/2013	BY 14	Urban	Improving Reliability	15	90	1,350	0.47	0.01	0.00
18/05/2013	FF 88	Urban	Regular Maintenance	4	120	480	0.38	0.00	0.00
18/05/2013	FF 95	Urban	Regular Maintenance	5	150	750	0.46	0.00	0.00
18/05/2013	ST 13	Urban	Upgrade Capacity - subs and LV	1	120	120	0.63	0.01	0.00
19/05/2013	CN 04	Urban	Replace Overhead Assets	42	365	15,330	11.27	0.03	0.00
19/05/2013	COO11	Rural-short	Regular Maintenance	3	229	687	0.42	0.00	0.00
19/05/2013	PV 31	Urban	Replace Underground Assets	13	240	3,120	1.60	0.01	0.00
19/05/2013	ST 34	Urban	Upgrade Capacity - subs and LV	6	385	2,310	7.67	0.02	0.00

20/05/2013	PV 13	Urban	Regular Maintenance	3	120	360	0.12	0.00	0.00
20/05/2013	PV 22	Urban	Improving Reliability	8	120	960	0.39	0.00	0.00
21/05/2013	CN 05	Urban	Regular Maintenance	1	300	300	0.08	0.00	0.00
21/05/2013	CN 06	Urban	Upgrade Capacity - subs and LV	74	205	15,170	7.29	0.04	0.00
21/05/2013	TT 08	Urban	Regular Maintenance	49	115	5,635	2.30	0.02	0.00
22/05/2013	AW 07	Urban	Replace Overhead			,			
22/05/2013	CN 04	Urban	Assets Replace Overhead	37	370	13,690	3.01	0.01	0.00
22/03/2013		Orban	Assets	9	325	2,925	2.15	0.01	0.00
23/05/2013	CN 05	Urban	Replace Overhead Assets	18	135	2,430	0.62	0.00	0.00
23/05/2013	CN 10	Urban	Regular Maintenance	24	110	2,640	1.36	0.01	0.00
23/05/2013	CS 02	Urban	Replace Overhead Assets	62	260	16,120	2.93	0.01	0.00
24/05/2013	AW 07	Urban	Upgrade Capacity - subs and LV	3	285	855	0.19	0.00	0.00
24/05/2013	CS 02	Urban	Replace Overhead Assets	28	296	8,288	1.51	0.01	0.00
24/05/2013	EP 37	Urban	Replace Overhead Assets	50	205	10,250	12.58	0.06	0.00
24/05/2013	FW 09	Urban	Replace Overhead Assets	14	200	2,800	1.98	0.01	0.00
25/05/2013	CS 05	Urban	Upgrade Capacity - subs and LV	46	330	15,180	3.22	0.01	0.00
26/05/2013	BD 09	Urban	Regular Maintenance	5	73	365	0.53	0.01	0.00
26/05/2013	CN 11	Urban	Upgrade Capacity - subs and LV	4	518	2,072	0.82	0.00	0.00
27/05/2013	CN 05	Urban	Replace Overhead Assets	6	230	1,020	0.26	0.00	0.00
28/05/2013	CN 06	Urban	Replace Overhead Assets	11	440	4,840	2.33	0.01	0.00
28/05/2013	NH 05	Urban	Replace Overhead Assets	8	175	1,400	0.31	0.00	0.00
28/05/2013	NH 08	Urban	Replace Overhead Assets	113	305	34,465	13.22	0.04	0.00
28/05/2013	PV 23	Urban	Regular Maintenance	5	315	1,575	0.67	0.00	0.00
29/05/2013	COO11	Rural-short	Regular Maintenance	4	180	720	0.44	0.00	0.00
29/05/2013	CS 13	Urban	Replace Underground Assets	49	360	17,640	9.93	0.03	0.00
30/05/2013	HB 14	Urban	Replace Overhead Assets	148	180	26,640	15.60	0.09	0.00
30/05/2013	NT 11	Urban	Replace Overhead Assets	14	208	2,912	0.85	0.00	0.00
30/05/2013	PV 24	Urban	Regular Maintenance	2	170	340	0.21	0.00	0.00
30/05/2013	SBY14	Rural-short	Upgrade Capacity - subs and LV	1	290	290	0.07	0.00	0.00
31/05/2013	PV 22	Urban	Replace Overhead Assets	17	360	6,120	2.46	0.01	0.00
31/05/2013	SBY32	Rural-short		4	178	712	0.25	0.00	0.00
2/06/2013	AW 06	Urban	Regular Maintenance	2	300	600	0.12	0.00	0.00

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2/06/2013	FF 95	Urban	Replace Overhead Assets	14	220	3,080	1.88	0.01	0.00
2/06/2013	ST 23	Urban	Regular Maintenance	1	25	25	0.18	0.01	0.00
3/06/2013	SBY32	Rural-short		8	52	416	0.14	0.00	0.00
			Replace Overhead						
4/06/2013	HB 24	Urban	Assets	52	255	13,260	15.15	0.06	0.00
4/06/2013	NT 17	Urban	Replace Overhead Assets	24	190	4,560	1.63	0.01	0.00
5/06/2013	AW 07	Urban	Upgrade Capacity - subs and LV	28	360	10,080	2.22	0.01	0.00
5/06/2013	CN 03	Urban	Replace Overhead Assets	50	210	10,500	4.05	0.02	0.00
5/06/2013	PV 14	Urban	Upgrade Capacity - subs and LV	58	364	21,112	7.66	0.02	0.00
6/06/2013	HB 23	Urban	Regular Maintenance	27	90	2,430	1.64	0.02	0.00
6/06/2013	NT 17	Urban	Improving Reliability	55	380	20.900	7.47	0.02	0.00
6/06/2013	SHM11	Rural-short		57	32	1,824	1.75	0.02	0.00
7/06/2013	BD 07	Urban	Replace Overhead Assets	12	195	2.340	0.59	0.00	0.00
			Replace Overhead	12	100	2,040	0.00	0.00	0.00
7/06/2013	ES 13	Urban	Assets	11	325	3,575	1.95	0.01	0.00
7/06/2013	TT 10	Urban	Replace Overhead Assets	11	215	2,365	0.54	0.00	0.00
8/06/2013	CS 05	Urban	Upgrade Capacity - subs and LV	60	366	21,960	4.66	0.01	0.00
9/06/2013	FF 89	Urban	Regular Maintenance	9	90	810	2.23	0.02	0.00
9/06/2013	FW 05	Urban	Regular Maintenance	12	294	3,528	2.15	0.01	0.00
9/06/2013	HB 14		Regular Maintenance	36	215	7,740	4.53	0.02	0.00
9/06/2013	NH 17	Urban	Regular Maintenance	2	100	200	0.09	0.00	0.00
9/06/2013	SHM11		Regular Maintenance	2	20	40	0.04	0.00	0.00
10/06/2013	P 66	Urban	Replace Underground Assets	24	95	2,280	3.19	0.03	0.00
11/06/2013	AW 07	Urban	Replace Overhead Assets	5	210	1,050	0.23	0.00	0.00
11/06/2013	CN 05	Urban	Regular Maintenance	89	210	18,690	4.74	0.02	0.00
11/06/2013	NH 05	Urban	Regular Maintenance	3	480	1,440	0.32	0.00	0.00
12/06/2013	ES 02	Urban	Upgrade Capacity - subs and LV	133	186	24,738	16.85	0.09	0.00
12/06/2013	NH 08	Urban	Regular Maintenance	24	125	3,000	1.15	0.01	0.00
13/06/2013	AW 05	Urban	Replace Overhead Assets	11	270	2,970	5.47	0.02	0.00
13/06/2013	AW 09	Urban	Replace Overhead Assets	2	150	300	0.12	0.00	0.00
13/06/2013	PV 14	Urban	Regular Maintenance	57	450	25,650	9.30	0.02	0.00
14/06/2013	C0011		Regular Maintenance	3	133	399	0.24	0.00	0.00
14/06/2013	SBY14	Rural-short	Replace Overhead Assets	211	417	7,178	1.78	0.05	0.00
15/06/2013	AW 07	Urban	Replace Overhead Assets	44	345	7,440	1.64	0.01	0.00
15/06/2013	EP 09	Urban	Regular Maintenance	2	15	30	0.13	0.01	0.00
16/06/2013	NT 15	Urban	Replace Underground Assets	10	90	900	0.84	0.01	0.00
			733513	10	30	300	0.04	0.01	0.00

			Replace Overhead						
16/06/2013	YTS03	Urban	Assets	22	110	2,380	3.67	0.03	0.00
18/06/2013	NH 08	Urban	Regular Maintenance	133	300	37,680	14.45	0.05	0.00
18/06/2013	NS 12	Urban		7	57	399	0.31	0.01	0.00
18/06/2013	NT 17	Urban	Replace Overhead Assets	70	402	28,140	10.06	0.03	0.00
19/06/2013	COO11	Rural-short	Replace Overhead Assets	52	345	17,940	10.93	0.03	0.00
19/06/2013	NH 03	Urban	Replace Overhead Assets	25	220	5,500	4.25	0.02	0.00
19/06/2013	NT 17	Urban	Replace Overhead Assets	171	287	49,077	17.55	0.06	0.00
20/06/2013	AW 07	Urban	Improving Reliability	5	315	1,575	0.35	0.00	0.00
20/06/2013	EP 37	Urban	Replace Overhead Assets	19	235	4,465	5.48	0.02	0.00
21/06/2013	COO11	Rural-short	Regular Maintenance	9	283	2,547	1.55	0.01	0.00
21/06/2013	CS 05	Urban	Upgrade Capacity - subs and LV	2	5	10	0.00	0.00	0.00
21/06/2013	NT 17	Urban	Regular Maintenance	2	150	300	0.11	0.00	0.00
22/06/2013	CS 13	Urban	Regular Maintenance	10	210	2,100	1.18	0.01	0.00
23/06/2013	BD 01	Urban	Replace Overhead Assets	6	210	1,260	0.75	0.00	0.00
23/06/2013	CN 05	Urban	Replace Overhead Assets	31	193	5,983	1.52	0.01	0.00
23/06/2013	YTS03	Urban	Upgrade Capacity - subs and LV	114	400	45,600	70.26	0.18	0.00
24/06/2013	NH 05	Urban	Upgrade Capacity - subs and LV	58	255	14,790	3.28	0.01	0.00
24/06/2013	PV 22	Urban	Improving Reliability	8	120	960	0.39	0.00	0.00
25/06/2013	COO11	Rural-short	Regular Maintenance	93	195	18,135	11.05	0.06	0.00
25/06/2013	COO11	Rural-short	Replace Overhead Assets	5	327	1,635	1.00	0.00	0.00
25/06/2013	NH 05	Urban	Replace Overhead Assets	2	360	720	0.16	0.00	0.00
25/06/2013	NT 11	Urban	Replace Overhead Assets	9	125	1,125	0.33	0.00	0.00
25/06/2013	ST 22	Urban	Replace Underground Assets	56	260	14,560	2.42	0.01	0.00
26/06/2013	COO11	Rural-short	Regular Maintenance	8	67	536	0.33	0.00	0.00
26/06/2013	FE 09	Urban	Replace Overhead Assets	9	210	1,890	0.48	0.00	0.00
27/06/2013	FW 05	Urban	Regular Maintenance	14	240	3,360	2.05	0.01	0.00
27/06/2013	PV 31	Urban	Replace Overhead Assets	48	205	9,840	5.03	0.02	0.00
27/06/2013	SBY11	Rural-short	Replace Underground Assets	14	140	1,960	0.66	0.00	0.00
28/06/2013	COO21	Urban	Regular Maintenance	9	191	1,719	0.89	0.00	0.00
30/06/2013	CN 04	Urban		4	278	1,112	0.82	0.00	0.00
30/06/2013	ST 23	Urban	Replace Overhead Assets	53	300	15,864	112.51	0.38	0.00
1/07/2013	COO11	Rural-short	Regular Maintenance	3	240	540	0.33	0.00	0.00

			Replace Overhead						
1/07/2013	CS 03	Urban	Assets	59	270	15,930	4.16	0.02	0.00
2/07/2013	CS 03	Urban	Replace Overhead						
			Assets	126	219	27,594	7.20	0.03	0.00
2/07/2013	NH 03	Urban	Regular Maintenance	12	390	4,680	3.62	0.01	0.00
2/07/2013	SBY11	Rural-short		1	45	45	0.02	0.00	0.00
3/07/2013	AW 02	Urban	Upgrade Capacity - subs and LV	61	480	29,280	9.56	0.02	0.00
3/07/2013	CN 03	Urban	Regular Maintenance	36	153	5,508	2.13	0.01	0.00
4/07/2013	AW 02	Urban	Upgrade Capacity - subs and LV	61	345	21,045	6.87	0.02	0.00
4/07/2013	TT 11	Urban	Replace Overhead Assets	1	240	240	0.05	0.00	0.00
6/07/2013	ST 34	Urban	Regular Maintenance	75	320	24,000	79.73	0.25	0.00
			Upgrade Capacity -			,			
7/07/2013	BD 01	Urban	subs and LV	10	437	4,370	2.62	0.01	0.00
7/07/2013	BD 04	Urban	Tree Clearing Urban	53	267	14,151	13.54	0.05	0.00
7/07/2013	CN 02	Urban	Regular Maintenance	67	242	16,214	36.11	0.15	0.00
7/07/2013	NH 09	Urban	Replace Overhead Assets	9	285	2,565	4.03	0.01	0.00
8/07/2013	AW 07	Urban	Regular Maintenance	5	120	600	0.13	0.00	0.00
9/07/2013	SBY31	Urban	Regular Maintenance	228	230	52,440	24.85	0.11	0.00
10/07/2013	NT 17	Urban	Replace Overhead Assets	20	370	7,400	2.65	0.01	0.00
10/07/2013	YTS03	Urban	Upgrade Capacity - subs and LV	22	425	9,350	14.41	0.03	0.00
11/07/2013	C0021	Urban	Regular Maintenance	8	330	2,640	1.37	0.00	0.00
			Replace Overhead	•	000	2,010	1.01	0.00	0.00
11/07/2013	EP 37	Urban	Assets	83	245	20,335	24.95	0.10	0.00
11/07/2013	SBY11	Rural-short	Regular Maintenance	11	72	645	0.22	0.00	0.00
12/07/2013	COO11	Rural-short	Upgrade Capacity - subs and LV	1	101	101	0.06	0.00	0.00
12/07/2013	HB 24	Urban	Regular Maintenance	14	235	3,290	3.76	0.00	0.00
12/07/2013	SBY32	Rural-short	V	46	235	11,224	3.87	0.02	0.00
			Upgrade Capacity -	10	211		0.07	0.02	0.00
13/07/2013	PV 14	Urban	subs and LV	6	310	1,860	0.67	0.00	0.00
13/07/2013	TH 13	Urban	Regular Maintenance	10	53	530	9.64	0.18	0.00
14/07/2013	EP 34	Urban	Regular Maintenance	4	300	1,200	0.83	0.00	0.00
14/07/2013	EP 36	Urban	Replace Overhead Assets	1	250	250	0.26	0.00	0.00
14/07/2013	NT 10	Urban	Regular Maintenance	8	120	900	0.87	0.01	0.00
14/07/2013	P 62	Urban	Replace Overhead Assets	4	135	540	0.80	0.01	0.00
15/07/2013	CN 05	Urban	Replace Overhead Assets	2	180	360	0.09	0.00	0.00
16/07/2013	AW 05	Urban	Replace Overhead Assets	10	390	3.900	7.18	0.00	0.00
16/07/2013	AW 09	Urban	Replace Overhead Assets	2	150	300	0.12	0.02	0.00
16/07/2013	CN 03	Urban	Improving Reliability	4	120	480	0.12	0.00	0.00
			Replace Overhead	+	120	-00	0.19	0.00	0.00
16/07/2013	CO011	Rural-short	Assets	4	245	980	0.60	0.00	0.00

16/07/2013	CS 05	Urban	Regular Maintenance	46	225	10,350	2.19	0.01	0.00
16/07/2013	NH 02		Regular Maintenance	5	295	1,475	0.35	0.00	0.00
17/07/2013	CN 03	Urban	Upgrade Capacity -						
	CN 03	Urban	subs and LV	214	422	90,308	34.87	0.08	0.00
17/07/2013	FW 17	Urban	Tree Clearing Urban	19	393	7,467	3.30	0.01	0.00
17/07/2013	NT 17	Urban	Replace Overhead						
1110112010		Orban	Assets	5	380	1,900	0.68	0.00	0.00
18/07/2013	NT 03	Urban	Replace Overhead						
			Assets	35	445	15,575	4.94	0.01	0.00
18/07/2013	NT 11	Urban	Replace Underground Assets	6	265	1 500	0.47	0.00	0.00
19/07/2013	CN 05	Urban	Improving Reliability	28	305	1,590 8,540	2.17	0.00	0.00
		Urban	Replace Overhead	20	505	0,040	2.17	0.01	0.00
19/07/2013	FF 95	Urban	Assets	28	210	5,880	3.58	0.02	0.00
19/07/2013	SBY32	Rural-short	Regular Maintenance	2	240	480	0.17	0.00	0.00
			Upgrade Capacity -		2.0		0.11	0.00	0.00
19/07/2013	SBY32	Rural-short	subs and LV	3	180	540	0.19	0.00	0.00
00/07/0040	01.05	l lub e e	Replace Overhead						
20/07/2013	CN 05	Urban	Assets	39	293	11,427	2.90	0.01	0.00
20/07/2013	TT 10	Urban	Replace Overhead						
20/07/2013	11.10	Ulbali	Assets	20	270	5,400	1.23	0.00	0.00
21/07/2013	ES 07	Urban	Upgrade Capacity -						
21/0//2010	20 07	Orban	subs and LV	35	330	11,550	9.04	0.03	0.00
21/07/2013	FF 95	Urban	Replace Overhead				~~~~		
2.000.2010		0.001	Assets	117	310	36,270	22.09	0.07	0.00
22/07/2013	FE 09	Urban	Replace Overhead	74	356	26,344	6.66	0.02	0.00
22/07/2013	NS 18	Urban	Assets Improving Reliability	5	55	26,344 275	0.00	0.02	0.00
23/07/2013	CN 03	Urban	Regular Maintenance	13	108	1,404	0.10	0.00	0.00
23/07/2013			Replace Overhead	15	100	1,404	0.04	0.01	0.00
23/07/2013	CN 05	Urban	Assets	3	145	435	0.11	0.00	0.00
23/07/2013	TT 11	Urban		6	230	1,380	0.28	0.00	0.00
			Replace Overhead			.,			
24/07/2013	FF 95	Urban	Assets	73	150	10,950	6.67	0.04	0.00
24/07/2013	FW 08	Urban	Regular Maintenance	115	130	14,950	5.10	0.04	0.00
25/07/2013	FE 08	Urban	Replace Overhead						
			Assets	1	360	360	0.16	0.00	0.00
26/07/2013	CN 05	Urban	Regular Maintenance	5	180	900	0.23	0.00	0.00
26/07/2013	CS 05	Urban	Replace Overhead						
20/01/2010	00.00	Ciban	Assets	60	163	9,780	2.07	0.01	0.00
26/07/2013	CS 12	Urban	Replace Overhead	50	400	0.000	4.00	0.00	0.00
			Assets	50	192	9,600	4.92	0.03	0.00
26/07/2013	ES 13	Urban	Replace Overhead	40	004	0.010	4.50	0.04	0.00
			Assets	10	291	2,910	1.58	0.01	0.00
26/07/2013	SHM14	Urban	Replace Underground Assets	22	580	12,760	3.35	0.01	0.00
			Upgrade Capacity -	22	500	12,700	5.55	0.01	0.00
27/07/2013	NS 12	Urban	subs and LV	28	290	8,120	6.24	0.02	0.00
			Replace Overhead	20	200	0,120	0.24	0.02	0.00
28/07/2013	FE 05	Urban	Assets	51	255	13,005	4.24	0.02	0.00
29/07/2013	C0011	Rural-short	Regular Maintenance	12	14	168	0.10	0.01	0.00
29/07/2013	SBY32		Regular Maintenance	3	20	60	0.02	0.00	0.00

30/07/2013	CO011	Rural-short	Regular Maintenance	3	98	222	0.14	0.00	0.00
30/07/2013	EP 37	Urban	Replace Overhead Assets	21	215	4 330	E 01	0.02	0.00
30/07/2013	FF 88	Urban	Regular Maintenance	1	5	4,330	5.31 0.00	0.03	0.00
30/07/2013	FF 95	Urban	Replace Overhead						
30/07/2013	ST 32	Urban	Assets Upgrade Capacity -	22	90	1,980	1.21	0.01	0.00
			subs and LV Replace Underground	4	411	1,644	0.27	0.00	0.00
31/07/2013	BD 03	Urban	Assets	1	60	60	0.17	0.00	0.00
31/07/2013	FF 88		Regular Maintenance	42	134	5,628	4.48	0.03	0.00
31/07/2013	FF 88	Urban	Road Works Council	22	116	2,552	2.03	0.02	0.00
31/07/2013	NH 08	Urban	Regular Maintenance	14	390	3,996	1.53	0.01	0.00
31/07/2013	NT 17	Urban	Replace Overhead Assets	16	165	2,640	0.94	0.01	0.00
2/08/2013	EP 37	Urban	Replace Overhead Assets	20	185	3,700	4.54	0.02	0.00
2/08/2013	PV 31	Urban	Regular Maintenance	1	210	210	0.11	0.00	0.00
			Replace Underground	1	210	210	0.11	0.00	0.00
3/08/2013	FW 04	Urban	Assets	8	105	840	0.58	0.01	0.00
4/08/2013	CN 10	Urban	Improving Reliability	4	270	1,080	0.56	0.00	0.00
4/08/2013	FW 08	Urban	Regular Maintenance	1	52	52	0.02	0.00	0.00
4/08/2013	PV 12	Urban	Regular Maintenance	121	128	15,488	33.16	0.26	0.00
5/08/2013	FE 09	Urban	Upgrade Capacity - subs and LV	94	360	33,840	8.56	0.02	0.00
5/08/2013	TT 11	Urban	Regular Maintenance	40	200	8,000	1.62	0.01	0.00
6/08/2013	EP 37	Urban	Replace Overhead Assets	52	330	17,160	21.06	0.06	0.00
6/08/2013	NT 11	Urban	Replace Overhead Assets		210		1.47		
0/00/0040	)/T000	11.1	Regular Maintenance	<u>24</u> 26	266	5,040 6,916	8.09	0.01 0.03	0.00 0.00
6/08/2013	YTS06	Urban		20	200	6,916	8.09	0.03	0.00
7/08/2013	CN 08	Urban	Replace Overhead Assets	49	221	10,829	5.32	0.02	0.00
7/08/2013	FF 95	Urban	Regular Maintenance	117	240	28,080	17.10	0.07	0.00
8/08/2013	CN 08	Urban	Replace Overhead Assets	7	267	1,869	0.92	0.00	0.00
8/08/2013	NH 17	Urban	Replace Overhead Assets	56	115	6.440	2.89	0.03	0.00
9/08/2013	ES 13	Urban	Improving Reliability	3	65	195	0.11	0.00	0.00
10/08/2013	SBY33	Urban	Regular Maintenance	41	165	5,805	1.96	0.01	0.00
11/08/2013	CS 03	Urban	Replace Overhead Assets	1	300	300	0.08	0.00	0.00
11/08/2013	NH 02	Urban	Replace Overhead Assets	247	129	31,863	7.53	0.06	0.00
11/08/2013	NH 09	Urban	Replace Overhead						
			Assets	2	220	275	0.43	0.00	0.00
11/08/2013	NT 17	Urban	Regular Maintenance	28	136	3,808	1.36	0.01	0.00
11/08/2013	SBY31	Urban	Regular Maintenance	16	420	6,720	3.18	0.01	0.00
12/08/2013	FE 09	Urban	Upgrade Capacity - subs and LV	24	300	7,200	1.82	0.01	0.00
13/08/2013	FE 09	Urban	Upgrade Capacity - subs and LV	81	465	37,665	9.53	0.02	0.00

1 1 100 100 10	011.00		Extended Electricity						
14/08/2013	CN 08	Urban	Supply	20	405	8,100	3.98	0.01	0.00
14/08/2013	FW 16	Urban	Regular Maintenance	193	227	43,811	17.32	0.08	0.00
15/08/2013	CS 03	Urban	Replace Overhead Assets	13	360	4,680	1.22	0.00	0.00
15/08/2013	FE 09	Urban	Upgrade Capacity - subs and LV	75	330	24,750	6.26	0.02	0.00
15/08/2013	SBY11	Rural-short	subs and LV	3	149	447	0.15	0.00	0.00
15/08/2013	SHM11	Rural-short	Extended Electricity Supply	30	392	11,760	11.31	0.03	0.00
16/08/2013	FW 16	Urban	Replace Overhead Assets	265	370	98,050	38.75	0.10	0.00
16/08/2013	HB 15	Urban	Replace Overhead Assets	41	240	9,840	4.12	0.02	0.00
16/08/2013	SBY32	Rural-short		2	240	480	0.17	0.00	0.00
16/08/2013	SBY32	Rural-short	subs and LV	3	265	795	0.27	0.00	0.00
17/08/2013	NT 03	Urban	Replace Overhead Assets	10	307	3,070	0.97	0.00	0.00
17/08/2013	PV 14	Urban	Regular Maintenance	22	260	5,720	2.07	0.01	0.00
18/08/2013	CN 01	Urban	Regular Maintenance	9	396	3,564	34.60	0.09	0.00
18/08/2013	C0011	Rural-short		197	335	65,995	40.22	0.12	0.00
18/08/2013	ES 13	Urban	Upgrade Capacity - subs and LV	32	370	11,840	6.44	0.02	0.00
18/08/2013	FT 13	Urban	Replace Overhead Assets	34	279	9,486	5.29	0.02	0.00
19/08/2013	CN 04	Urban	Replace Overhead Assets	62	210	13,020	9.57	0.05	0.00
20/08/2013	COO13	Urban	Assets	13	130	1,690	0.43	0.00	0.00
20/08/2013	CS 03	Urban	Improving Reliability	29	99	2,871	0.75	0.01	0.00
22/08/2013	ES 12	Urban	Improving Reliability	6	180	1,080	0.88	0.00	0.00
23/08/2013	ES 13	Urban	Improving Reliability	57	205	11,685	6.36	0.03	0.00
23/08/2013	HB 24	Urban	Assets	5	180	900	1.03	0.01	0.00
23/08/2013	NT 17	Urban	Replace Overhead Assets	2	135	270	0.10	0.00	0.00
23/08/2013	YTS02	Urban	Replace Overhead Assets	26	390	10,140	73.48	0.19	0.00
24/08/2013	SBY32	Rural-short	Replace Overhead Assets	3	255	765	0.26	0.00	0.00
24/08/2013	SBY33	Urban	Replace Overhead Assets	8	60	480	0.16	0.00	0.00
25/08/2013	CN 05	Urban	Replace Overhead Assets	10	135	1,350	0.34	0.00	0.00
25/08/2013	FE 08	Urban	Upgrade Capacity - subs and LV	17	835	14,195	6.29	0.01	0.00
27/08/2013	EP 37	Urban	Replace Overhead Assets	83	274	22,742	27.90	0.10	0.00
27/08/2013	ES 13	Urban	Improving Reliability	26	335	8,710	4.74	0.01	0.00

			Replace Overhead						
27/08/2013	HB 14	Urban	Assets	122	247	30,134	17.64	0.07	0.00
27/08/2013	SA 06	Urban	Regular Maintenance	16	120	1,920	13.43	0.11	0.00
27/08/2013	SBY32	Rural-short	Regular Maintenance	11	90	756	0.26	0.00	0.00
28/08/2013	BD 11	Urban	Assets	6	178	1,068	0.38	0.00	0.00
28/08/2013	ES 03	Urban	Replace Overhead Assets	73	227	16,571	6.34	0.03	0.00
28/08/2013	SBY32	Rural-short		6	80	420	0.14	0.00	0.00
28/08/2013	TT 08	Urban	Replace Overhead Assets	12	205	2,460	1.00	0.00	0.00
29/08/2013	CS 08	Urban	Improving Reliability	77	355	27,335	9.27	0.03	0.00
29/08/2013	FT 01	Urban	Replace Overhead Assets	86	345	29,670	8.16	0.02	0.00
29/08/2013	HB 15	Urban	Upgrade Capacity - subs and LV	89	405	36,045	15.08	0.04	0.00
30/08/2013	BD 07	Urban	Replace Overhead Assets	2	180	360	0.09	0.00	0.00
30/08/2013	CN 03	Urban	Improving Reliability	81	170	13,770	5.32	0.03	0.00
30/08/2013	CN 11	Urban	Replace Overhead Assets	68	5	340	0.13	0.03	0.00
30/08/2013	PV 31	Urban	Regular Maintenance	1	193	193	0.10	0.00	0.00
31/08/2013	ES 13	Urban	Assets	15	50	750	0.41	0.01	0.00
31/08/2013	FE 08	Urban	Regular Maintenance	3	20	60	0.03	0.00	0.00
31/08/2013	ST 34	Urban	Replace Overhead Assets	19	100	1,900	6.31	0.06	0.00
31/08/2013	TH 12	Urban	Replace Overhead Assets	6	490	2,940	117.60	0.24	0.00
1/09/2013	BD 13	Urban	Upgrade Capacity - subs and LV	8	176	1,408	2.74	0.02	0.00
1/09/2013	CN 07	Urban	Replace Overhead Assets	19	226	4,294	0.80	0.00	0.00
1/09/2013	EP 37	Urban	Upgrade Capacity - subs and LV	73	412	30,076	36.90	0.09	0.00
1/09/2013	FW 08	Urban	ULZSINTLET	5	550	2,750	0.94	0.00	0.00
1/09/2013	SHM12	Urban	Regular Maintenance Replace Overhead	4	105	400	0.14	0.00	0.00
3/09/2013	CS 03	Urban	Assets	10	360	3,600	0.94	0.00	0.00
3/09/2013	ST 22	Urban	Extended Electricity Supply	9	432	3,888	0.65	0.00	0.00
3/09/2013	ST 22	Urban	Replace Overhead Assets	28	225	6,300	1.05	0.00	0.00
4/09/2013	FE 08	Urban	Replace Overhead Assets	206	277	57,062	25.30	0.09	0.00
4/09/2013	SHM14	Urban	Replace Underground Assets	71	390	27,690	7.26	0.02	0.00
4/09/2013	ST 22	Urban	Upgrade Capacity - subs and LV	33	301	9,933	1.65	0.01	0.00
5/09/2013	CN 05	Urban	Regular Maintenance	17	390	6,630	1.68	0.00	0.00
5/09/2013	SHM11	Rural-short	Regular Maintenance	9	67	498	0.48	0.01	0.00

Singerts         111         Uman         Assets         38         306         10.800         2.22         0.01         0.00           6092013         NH 16         Uman         Register Constraint         2         140         3.500         1.38         0.01         0.00           7092015         BD 07         Utbits         Register Constraint         25         140         3.500         1.242         0.01         0.00           7092015         BD 07         Utbits         Register Constraint         25         140         3.500         1.242         0.01         0.00           8002013         FF 00         Utbits         Vigrade Capacity         30         11.500         2.52         0.01         0.00           8002013         FW 06         Utbits         Vigrade Capacity         30         0.30         0.01         0.00           100002013         GS 03         Utbits         Register Constraint         9         70         308         0.30         0.01         0.00           100002013         SH 011         Register Constraint         8         225         2.040         1.41         0.01         0.00           100002013         SH 05         Utbits				Replace Overhead						
Borgents         NH 16         Uthern         Regular Menthannan         25         140         3,500         1.38         0.01         0.00           7092013         BD 07         Uthar         Regular Menthannan         168         293         49.224         12.42         0.04         0.00           7092013         FE 00         Uthar         Regular Menthannan         168         293         49.224         12.42         0.01         0.00           8092013         FE 00         Uthar         Statistical V         64         320         28.880         68.0         0.02         0.00           8092013         FW 06         Uthar         Regular Menthannan         9         70         308         0.30         0.011         0.00           10092013         CS 03         Uthar         Regular Menthannan         8         256         2.040         1.41         0.00         0.00         10.00         0.00         10.00         0.00         10.00         0.00         10.00         0.00         10.00         0.00         10.00         0.00         10.00         0.00         10.00         10.00         10.00         10.00         0.00         10.00         10.00         10.00         10.00 </td <td>5/09/2013</td> <td>TT 11</td> <td>Urban</td> <td></td> <td>36</td> <td>305</td> <td>10,980</td> <td>2.22</td> <td>0.01</td> <td>0.00</td>	5/09/2013	TT 11	Urban		36	305	10,980	2.22	0.01	0.00
0009/2013         TM 10         Utbah         Assets         25         140         3.600         1.38         0.01         0.00           7092013         BD 07         Utbah         Regard Maintonance         168         293         49.224         12.42         0.04         0.00           8092013         FE 09         Utbah         Utbah         Mainton         5         1.130         5.650         5.94         0.01         0.00           8092013         SHM11         Ruisehon         5         1.130         5.650         5.94         0.01         0.00           9092013         SHM11         Ruisehon         6         1.130         5.650         5.94         0.01         0.00           10092013         SHM11         Ruisehon         76.926         9         70         3.68         0.30         0.11         0.00           10092013         SFM31         Ruisehon         76.926         9         9         0.46         0.60         0.00         0.00           11092013         FF 05         Utbah         Regard Maintenance         1         112         1.588         0.54         0.00         0.00           11092013         SF 94         Utbah </td <td>6/09/2013</td> <td>CN 05</td> <td>Urban</td> <td>Regular Maintenance</td> <td></td> <td>180</td> <td>900</td> <td>0.23</td> <td>0.00</td> <td>0.00</td>	6/09/2013	CN 05	Urban	Regular Maintenance		180	900	0.23	0.00	0.00
7.092013         BD 07         Uthan         Regular Minimumo         20         140         3.00         1.98         0.01         0.00           7.092013         FE 00         Uthan         Purgate Cascoling         168         230         49.224         11242         0.04         0.00           8.092013         FE 00         Uthan         Purgate Cascoling         350         11.550         2.92         0.01         0.00           8.092013         FF 00         Uthan         Purgate Cascoling         38         300         11.550         2.92         0.01         0.00           9.092013         SF N40         Uthan         Regular Mintenance         5         1.130         6.650         5.91         0.01         0.00           10092013         SF N41         Ruishand         Regular Mintenance         3         300         1.47         0.01         0.00           11092013         SF N2         Uthan         Regular Mintenance         110         227         24.970         8.13         0.44         0.00           11092013         SF N32         Ruishanance         111         1.158         0.54         0.00         0.00           11092013         SF N32         Rui	6/00/2012		Lirban	Replace Overhead						
7/09/2013         FE 09         Utbar         Upgrade Capacity - usbs and UV         35         330         11.550         2.92         0.01         0.00           8/09/2013         FF 09         Utbar         Nepular Expensive         320         26.880         6.80         0.02         0.00           8/09/2013         FW 08         Utbar         Nepular Maintenance         5         1.190         5.050         5.91         0.01         0.00           10/09/2013         SH411         Rural-shot         Feplater Nerreace         9         70         306         0.33         0.01         0.00           10/09/2013         SH411         Rural-shot         Regular Maintenance         2         48         84         0.48         0.08         0.00         0.00           11/09/2013         FF 06         Utbar         Regular Maintenance         11         112         76.120         3.74         0.02         0.00           11/09/2013         SBY32         Rural-shot         Regular Maintenance         14         112         1.68         0.54         0.00         0.00           11/09/2013         SBY32         Rural-shot         Regular Maintenance         2         150         3.00         0.06			Ulball							
Ave:2013         FF: 00         Utiliant         subs and LV         35         330         11.550         2.22         0.01         0.00           8/09/2013         FF: 00         Utiliant         Signade Capacity - subs and LV         2         26.880         6.80         0.02         0.00           9/09/2013         SHM11         Runshoft Regular Matterance         5         1.130         5.650         5.91         0.01         0.00           9/09/2013         SHM11         Runshoft Regular Matterance         9         70         308         0.30         0.01         0.00           1009/2013         SF 20         Utiliant         Regular Matterance         2         46         0.4         0.65         0.00         0.00           1109/2013         FF 0.8         Utiliant         Regular Matterance         110         227         24.970         8.13         0.04         0.00           1109/2013         FF 0.8         Utiliant         Regular Matterance         110         227         24.970         8.13         0.04         0.00         0.00           1109/2013         SFN32         Runal-soft Regular Matterance         112         1.160         0.40         0.00         0.00         0.00	7/09/2013	BD 07	Urban		168	293	49,224	12.42	0.04	0.00
808/2013         FL 09         Urban         'subs and LV'         84         320         28.880         6.80         0.02         0.00           909/2013         FW 06         Urban         Regular Maintenance         9         70         308         0.30         0.01         0.00           1009/2013         CS 03         Urban         Regular Maintenance         9         70         308         0.30         0.01         0.00           1009/2013         SHM11         Rural short         Regular Maintenance         2         44         44         0.08         0.00         0.00           1009/2013         FF 24         Urban         Regular Maintenance         10         227         24/970         8.13         0.04         0.00           1109/2013         FF 24         Urban         Regular Maintenance         14         112         1.568         0.54         0.00         0.00           1109/2013         SFY32         Rural-short         Regular Maintenance         14         112         1.568         0.54         0.00         0.00           1109/2013         SFY32         Rural-short         Regular Maintenance         2         150         300         0.07         0.00	7/09/2013	FE 09	Urban		35	330	11,550	2.92	0.01	0.00
B00/2013         FW 06         Urban         Regular Maintenance         5         1.130         5.660         6.91         0.01         0.00           909/2013         SHM11         Rural-short         Regular Maintenance         9         70         338         0.30         0.01         0.00           1009/2013         SFM.11         Rural-short         Regular Maintenance         2         48         64         0.08         0.00         0.00           1109/2013         EP 34         Urban         Regular Maintenance         2         48         64         0.08         0.00         0.00           1109/2013         EP 34         Urban         Regular Maintenance         10         227         24.970         8.13         0.04         0.00           1109/2013         SBY32         Rural-short         Regular Maintenance         14         112         1.568         0.54         0.00         0.00           1109/2013         SBY32         Rural-short         Regular Maintenance         6         53         275         0.07         0.00         0.00           1200/2013         EP 34         Urban         Regular Maintenance         2         150         330         0.07         0.00	8/09/2013	FE 09	Urban		84	320	26,880	6 80	0.02	0.00
9 00/2013         SHM11         Run-t-box         Replace Dverhed Assets         70         308         0.30         0.01         0.00           1009/2013         CS 03         Urban         Replace Dverhed Assets         38         350         13,300         3.47         0.01         0.00           1009/2013         SHM11         Rural-shot         Regular Maintenance         2         48         84         0.08         0.00         0.00           1109/2013         EP 34         Urban         Regular Maintenance         10         227         24,970         8.13         0.04         0.00           1109/2013         SFW32         Rural-shot         Regular Maintenance         14         112         1.668         0.54         0.00         0.00           1109/2013         SFW32         Rural-shot         Replace Overhead Assets         27         227         6,129         3.74         0.02         0.00         0.00           1109/2013         SFW32         Rural-shot         Replace Verhead Assets         4         290         1.160         0.40         0.00         0.00           1209/2013         SHM14         Urban         Regular Maintenance         2         150         300         0.07 <td>8/09/2013</td> <td>FW 06</td> <td>Urban</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	8/09/2013	FW 06	Urban							
1009/2013         CS 03         Urbar         Replace Overhead Assets         38         350         13,300         3.47         0.01         0.00           1009/2013         SHM11         Rural-short         Regular Maintenance         2         48         84         0.08         0.00         0.00           1109/2013         EP 34         Urban         Regular Maintenance         110         227         24,970         8.13         0.04         0.00           1109/2013         FF 05         Urban         Replace Overhead         7         227         6,129         3.74         0.02         0.00           1109/2013         SF32         Rural-short         Regular Maintenance         14         112         1.568         0.54         0.000         0.00           1109/2013         SF32         Rural-short         Regular Maintenance         6         5.3         275         0.07         0.00         0.00           1209/2013         SH M14         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           1209/2013         SH M11         Rural-short         Regular Maintenance         2         86         4.441         4.27 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
1009/2013         SHM11         Ruralshoft         Regular Maintenance         2         48         84         0.08         0.00         0.00           11/09/2013         EP 34         Urban         Regular Maintenance         110         227         24.970         8.13         0.04         0.00           11/09/2013         FW 05         Urban         Replace Voerhead         7         227         6.129         3.74         0.02         0.00           11/09/2013         SBY32         Rural-short         Regular Maintenance         14         112         1.68         0.54         0.00         0.00           11/09/2013         SBY32         Rural-short         Regular Maintenance         14         112         1.68         0.54         0.00         0.00           11/09/2013         SBY32         Rural-short         Regular Maintenance         14         255         940         0.65         0.00         0.00           12/09/2013         SHM14         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           12/09/2013         SHM14         Urban         Regular Maintenance         2         150         300         0.07         0				Replace Overhead	38	350	13 300	3.47	0.01	0.00
11/09/2013         EP 34         Urban         Regular Maintenance         8         255         2.040         1.11         0.01         0.00           11/09/2013         FE 06         Urban         Reglace Overhead         110         227         24.970         8.13         0.04         0.00           11/09/2013         FW 05         Urban         Reglace Overhead         7         227         6.129         3.74         0.02         0.00           11/09/2013         SBY32         Rural-short         Upgrade Capacity         2         1.160         0.40         0.00         0.00           12/09/2013         EP 34         Urban         Reglace Overhead         4         235         940         0.66         0.00         0.00           12/09/2013         SHM4         Urban         Reglace Overhead         4         235         940         0.66         0.00         0.00         0.00           13/09/2013         NH 40         Urban         Reglace Overhead         4         235         940         0.66         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.	10/09/2013	SHM11	Rural-short							
1109/2013         FE 06         Urban         Regular Maintenance         110         227         24,970         8.13         0.04         0.00           1109/2013         FW 05         Urban         Replace Overhead Asets         27         227         6.129         3.74         0.02         0.00           1109/2013         SBY32         Rural-short         Replace Overhead Asets         14         112         1,688         0.54         0.00         0.00           1109/2013         SBY32         Rural-short         Replace Overhead Asets         4         290         1,160         0.40         0.00         0.00           1209/2013         EP 34         Urban         Regular Maintenance         6         53         275         0.07         0.00         0.00           1209/2013         NH 40         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           1309/2013         NH 40         Urban         Regular Maintenance         2         865         4.441         4.27         0.06         0.60           1409/2013         ST 23         Urban         Regular Maintenance         2         160         360         2.255         0.										
11/09/2013         FW 05         Urban         Replace Overhead Assets         27         227         6,129         3,74         0.02         0.00           11/09/2013         SBY32         Rural-short         Regular Maintenance         14         112         1,568         0.54         0.00         0.00           11/09/2013         SBY32         Rural-short         Regular Capacity- subs and LV         4         280         1,160         0.40         0.00         0.00           12/09/2013         EP 34         Urban         Regular Maintenance         6         53         275         0.07         0.00         0.00           12/09/2013         SH/14         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13/09/2013         NH 20         Urban         Regular Maintenance         2         85         4.441         4.27         0.06         0.00           14/09/2013         ST 23         Urban         Regular Maintenance         2         85         4.441         4.27         0.06         0.00           15/09/2013         BY 11         Urban         Regular Coverhead         Assets         17         285         4.845										
1109/2013         SBY32         Rural-short         Regular Maintenance         14         112         1,688         0.54         0.00         0.00           11/09/2013         SBY32         Rural-short         Upgrade Capacity- subs and LV         4         290         1,160         0.40         0.00         0.00           12/09/2013         EP 34         Urban         Replace Overhead Assets         4         235         940         0.65         0.00         0.00           12/09/2013         SHM14         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13/09/2013         NH 20         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           14/09/2013         SHM11         Rural-short         Regular Maintenance         62         85         4.441         4.27         0.06         0.00           14/09/2013         SHM11         Rural-short         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Regular Maintenance         2         180         359         8.257 <td></td> <td></td> <td></td> <td>Replace Overhead</td> <td></td> <td></td> <td>, , , , , , , , , , , , , , , , , , ,</td> <td></td> <td></td> <td></td>				Replace Overhead			, , , , , , , , , , , , , , , , , , ,			
11/09/2013         SBY32         Rural-short         Upgrade Capacity - subs and LV         4         290         1,160         0.40         0.00         0.00           12/09/2013         EP 34         Urban         Replace Overhead Assets         4         235         940         0.85         0.00         0.00           12/09/2013         SHM14         Urban         Regular Maintenance         6         53         275         0.07         0.00         0.00           13/09/2013         NH 05         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13/09/2013         SHM14         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           14/09/2013         SH 11         Rural-short         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Replace Overhead         2         359         8,257         2.62         0.01         0.00           15/09/2013         BY 11         Urban         Replace Overhead         3         241         20.003         12.18         0.	11/09/2013	SBV32	Rural-short							
12/09/2013         EP 34 Assets         Urban Assets         Reglace Overhead Assets         235         940         0.65         0.00         0.00           12/09/2013         SHM14         Urban         Regular Maintenance         6         53         275         0.07         0.00         0.00           13/09/2013         NH 05         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13/09/2013         SHM11         Rural-short         Regular Maintenance         2         85         4.441         4.27         0.06         0.00           14/09/2013         SHM11         Rural-short         Regular Maintenance         2         180         360         2.55         0.01         0.00           14/09/2013         ST 23         Urban         Reglace Overhead         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -				Upgrade Capacity -			, , , , , , , , , , , , , , , , , , ,			
12:09/2013         SHM14         Urban         Regular Maintenance         6         53         275         0.07         0.00         0.00           13:09/2013         NH 05         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13:09/2013         NH 05         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           14:09/2013         SHM14         Urban         Regular Maintenance         62         85         4,441         4.27         0.06         0.00           14:09/2013         ST 23         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           15:09/2013         NT 03         Urban         Assets         17         2.85         4.845         1.21         0.00         0.00           15:09/2013         NT 03         Urban         Assets         23         359         8.257         2.62         0.01         0.00           17:09/2013         BD 07         Urban         Assets         39         195         7,605         192         0.01         0.00         0.00	12/09/2013	EP 34	Urban	Replace Overhead			, , , , , , , , , , , , , , , , , , ,			
1309/2013         NH 05         Urban         Regular Maintenance         2         150         300         0.07         0.00         0.00           13/09/2013         NH 20         Urban         Replace Overhead Assets         71         285         20.235         10.64         0.04         0.00           14/09/2013         ST23         Urban         Regular Maintenance         62         85         4.441         4.27         0.06         0.00           14/09/2013         ST23         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Replace Overhead Assets         17         285         4,845         1.21         0.00         0.00           15/09/2013         NT 03         Urban         Replace Overhead Assets         23         359         8,257         2.62         0.01         0.00           17/09/2013         BD 07         Urban         Replace Overhead Assets         39         195         7,605         1.92         0.01         0.00           17/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33	12/09/2013	SHM14	Urban							
13/09/2013         NH 20         Urban         Replace Overhead Assets         71         285         20.235         10.64         0.04         0.00           14/09/2013         SHM11         Rural-short         Regular Maintenance         62         85         4.441         4.27         0.06         0.00           14/09/2013         ST 23         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Reglace Overhead Assets         17         285         4,845         1.21         0.00         0.00           15/09/2013         NT 03         Urban         Replace Overhead Assets         23         359         8,257         2.62         0.01         0.00           17/09/2013         BD 07         Urban         Replace Overhead Assets         39         195         7,605         1.92         0.01         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY14         Rural-short         Regular Maintenance         2         125         250         0.										
14/09/2013         SHM11         Rural-short         Regular Maintenance         62         85         4,441         4.27         0.06         0.00           14/09/2013         ST 23         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Replace Overhead         360         2.55         0.01         0.00           15/09/2013         NT 03         Urban         Replace Overhead         359         8,257         2.62         0.01         0.00           17/09/2013         BD 07         Urban         Replace Overhead         39         195         7,605         1.92         0.01         0.00           17/09/2013         FF 95         Urban         Assets         83         241         20.003         12.18         0.05         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         2         125         250         0.18         0.00         0.00           18/09/2013			Urban	Replace Overhead	71	285	20.235	10.64	0.04	0.00
14/09/2013         ST 23         Urban         Regular Maintenance         2         180         360         2.55         0.01         0.00           15/09/2013         BY 11         Urban         Replace Overhead         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <td>14/09/2013</td> <td>SHM11</td> <td>Rural-short</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	14/09/2013	SHM11	Rural-short							
15/09/2013         BY 11         Urban         Replace Overhead Assets         17         285         4,845         1.21         0.00         0.00           15/09/2013         NT 03         Urban         Replace Overhead Assets         23         359         8,257         2.62         0.01         0.00           17/09/2013         BD 07         Urban         Replace Overhead Assets         39         195         7,605         1.92         0.01         0.00           17/09/2013         FF 95         Urban         Replace Overhead Assets         83         241         20,003         12.18         0.05         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY14         Rural-short         Regular Maintenance         2         125         250         0.18         0.00         0.00           18/09/2013         ST 22         Urban         Replace Overhead Assets         22         125         250         0.18         0.00         0.00           19/09/2013         CN 04         Urban         Replace Assets         22         390         8,580         5.96 <td></td> <td></td> <td></td> <td>U</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				U						
15/09/2013         NT 03         Urban         Replace Overhead Assets         23         359         8,257         2.62         0.01         0.00           17/09/2013         BD 07         Urban         Replace Overhead Assets         39         195         7,605         1.92         0.01         0.00           17/09/2013         FF 95         Urban         Replace Overhead Assets         83         241         20,003         12.18         0.05         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY14         Rural-short         Regular Maintenance         20         55         1,100         0.27         0.00         0.00           18/09/2013         ST 22         Urban         Extended Electricity Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Regular Overhead Assets         22         390         8,580				Replace Overhead						
17/09/2013         BD 07         Urban         Assets         39         195         7,605         1.92         0.01         0.00           17/09/2013         FF 95         Urban         Replace Overhead Assets         83         241         20,003         12.18         0.05         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY14         Rural-short         Regular Maintenance         20         55         1,100         0.27         0.00         0.00           18/09/2013         ST 22         Urban         Extended Electricity Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Replace Overhead Assets         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96	15/09/2013	NT 03	Urban	Replace Overhead	23	359	8,257	2.62	0.01	0.00
17/09/2013         FF 95         Urban         Assets         83         241         20,003         12.18         0.05         0.00           18/09/2013         SBY11         Rural-short         Regular Maintenance         6         165         990         0.33         0.00         0.00           18/09/2013         SBY14         Rural-short         Regular Maintenance         20         55         1,100         0.27         0.00         0.00           18/09/2013         ST 22         Urban         Extended Electricity Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Urban         Upgrade Capacity - subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235	17/09/2013	BD 07	Urban		39	195	7,605	1.92	0.01	0.00
18/09/2013         SBY14         Rural-short         Regular Maintenance         20         55         1,100         0.27         0.00         0.00           18/09/2013         ST 22         Urban         Extended Electricity Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Replace Oacity- subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity- subs and LV         6         394         2,364 <td< td=""><td>17/09/2013</td><td></td><td>Urban</td><td></td><td></td><td></td><td></td><td>12.18</td><td></td><td></td></td<>	17/09/2013		Urban					12.18		
18/09/2013         ST 22         Urban         Extended Electricity Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Upgrade Capacity- subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity- subs and LV         6         394         2,364         0.81         0.00         0.00		SBY11	Rural-short							
18/09/2013         ST 22         Urban         Supply         36         480         17,280         2.87         0.01         0.00           19/09/2013         CN 04         Urban         Regular Maintenance         2         125         250         0.18         0.00         0.00           19/09/2013         FE 08         Urban         Upgrade Capacity- subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity- subs and LV         6         394         2,364         0.81         0.00         0.00	18/09/2013	SBY14	Rural-short		20	55	1,100	0.27	0.00	0.00
19/09/2013         FE 08         Urban         Upgrade Capacity - subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity - subs and LV         6         394         2,364         0.81         0.00         0.00	18/09/2013	ST 22	Urban		36		17,280	2.87	0.01	0.00
19/09/2013         FE 08         Urban         Upgrade Capacity - subs and LV         1         120         120         0.05         0.00         0.00           21/09/2013         FW 04         Urban         Replace Overhead Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity - subs and LV         6         394         2,364         0.81         0.00         0.00	19/09/2013	CN 04	Urban	Regular Maintenance	2	125	250	0.18	0.00	0.00
21/09/2013         FW 04         Orban         Assets         22         390         8,580         5.96         0.02         0.00           22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity - subs and LV         6         394         2,364         0.81         0.00         0.00	19/09/2013		Urban	Upgrade Capacity - subs and LV	1	120	120	0.05	0.00	0.00
22/09/2013         EP 09         Urban         Replace Overhead Assets         19         65         1,235         5.26         0.08         0.00           22/09/2013         FW 08         Urban         Upgrade Capacity - subs and LV         6         394         2,364         0.81         0.00         0.00	21/09/2013	FW 04	Urban	Replace Overhead	22			5.96		
22/09/2013 FW 08 Urban subs and LV 6 394 2,364 0.81 0.00 0.00	22/09/2013	EP 09	Urban	Replace Overhead	19	65	1,235	5.26	0.08	0.00
	22/09/2013	FW 08	Urban		6	394	2,364	0.81	0.00	0.00
22/09/2013 FW 16 Urban Regular Maintenance 1 1 86 86 0.03 0.00 0.00	22/09/2013	FW 16	Urban	Regular Maintenance	1	86	86	0.03	0.00	0.00

00/00/0040	TT 08	Urban	Replace Overhead						
22/09/2013	11.08	Urban	Assets	61	305	18,605	7.60	0.02	0.00
23/09/2013	COO11	Rural-short	Replace Overhead Assets	5	438	2,190	1.33	0.00	0.00
23/09/2013	SHM11	Rural-short	Replace Overhead Assets	3	125	375	0.36	0.00	0.00
24/09/2013	BY 11	Urban	Replace Overhead Assets	34	180	6,120	1.53	0.01	0.00
24/09/2013	PV 13	Urban	Replace Overhead Assets	2	200	400	0.13	0.00	0.00
24/09/2013	SA 02	Rural-short	Replace Overhead Assets	6	235	1,410	22.38	0.10	0.00
24/09/2013	ST 22	Urban	Replace Plant and Equipment	59	415	24,485	4.07	0.01	0.00
25/09/2013	FW 17	Urban	Replace Overhead Assets	7	300	2,100	0.93	0.00	0.00
25/09/2013	SHM14	Urban	Regular Maintenance	6	101	606	0.16	0.00	0.00
26/09/2013	CS 12	Urban	Replace Overhead Assets	52	435	22,620	11.59	0.03	0.00
26/09/2013	ES 02	Urban	Upgrade Capacity - subs and LV	63	242	15,246	10.39	0.04	0.00
26/09/2013	SHM14	Urban	Regular Maintenance	27	330	8,910	2.34	0.01	0.00
27/09/2013	SBY32	Rural-short	Regular Maintenance	2	300	600	0.21	0.00	0.00
27/09/2013	TT 03	Urban	Regular Maintenance	31	155	4,805	1.43	0.01	0.00
29/09/2013	CS 05	Urban	Replace Overhead Assets	34	290	9,860	2.09	0.01	0.00
29/09/2013	FW 04	Urban	Replace Overhead Assets	8	500	4,000	2.78	0.01	0.00
30/09/2013	AW 08	Urban	Regular Maintenance	2	180	360	0.15	0.00	0.00
30/09/2013	ES 03	Urban	Regular Maintenance	47	350	16,450	6.29	0.02	0.00
30/09/2013	PV 22	Urban	Replace Overhead Assets	39	225	8,775	3.52	0.02	0.00
30/09/2013	TT 03			11	240	2,181	0.65	0.00	0.00
2/10/2013	SHM11		Regular Maintenance	2	300	600	0.58	0.00	0.00
3/10/2013	SBY11	Rural-short	Regular Maintenance	27	45	1,215	0.41	0.01	0.00
3/10/2013	SBY32	Rural-short	Replace Overhead Assets	24	274	6,576	2.27	0.01	0.00
4/10/2013	AW 02	Urban	Replace Overhead Assets	64	507	32,448	10.59	0.02	0.00
4/10/2013	FE 06	Urban	Regular Maintenance	9	210	1,890	0.45	0.00	0.00
4/10/2013	TT 03	Urban		20	210	1,770	0.53	0.01	0.00
4/10/2013	TT 03	Urban	Replace Overhead Assets	29	245	7,105	2.11	0.01	0.00
5/10/2013	AW 01	Urban	Upgrade Capacity - subs and LV	44	318	13,992	19.30	0.06	0.00
5/10/2013	TT 10	Urban	Improving Reliability	61	333	20,313	4.65	0.01	0.00
5/10/2013	TT 11	Urban	Replace Overhead Assets	9	280	2,520	0.51	0.00	0.00
6/10/2013	FT 14	Urban	Replace Plant and Equipment	2	222	444	0.28	0.00	0.00
6/10/2013	TT 10	Urban	Regular Maintenance	3	180	540	0.12	0.00	0.00

			Replace Overhead						
6/10/2013	TT 11	Urban	Assets	17	345	5,865	1.19	0.00	0.00
7/10/2013	TT 03	Urban	Replace Overhead						
1110/2013	11.03	Orban	Assets	13	310	4,030	1.20	0.00	0.00
7/10/2013	TT 10	Urban	Replace Overhead						
			Assets	29	316	9,164	2.10	0.01	0.00
7/10/2013	TT 11	Urban	Improving Reliability Replace Overhead	63	348	21,924	4.44	0.01	0.00
8/10/2013	COO11	Rural-short	Assets	6	491	2,946	1.80	0.00	0.00
			Replace Overhead	0	431	2,940	1.00	0.00	0.00
8/10/2013	NH 02	Urban	Assets	21	225	4,725	1.12	0.00	0.00
8/10/2013	SBY11	Rural-short	Regular Maintenance	14	290	4,060	1.37	0.00	0.00
0,10,2010	05111					,	-		
8/10/2013	SBY11	Rural-short	Tree Clearing/Bushfire						
			Mitigation	48	240	6,528	2.20	0.02	0.00
8/10/2013	SHM12	Urban	Upgrade Capacity -						
8/10/2013	311112	Ulball	subs and LV	162	475	76,950	27.19	0.06	0.00
8/10/2013	TT 10	Urban	Replace Overhead		0.12				
			Assets	72	310	22,320	5.10	0.02	0.00
9/10/2013	C0011	Rural-short	Regular Maintenance	1	99	99	0.06	0.00	0.00
9/10/2013	NH 05	Urban	Regular Maintenance	12 67	240 160	2,880	0.64	0.00 0.03	0.00
9/10/2013	NH 08	Urban	Regular Maintenance Regular Maintenance	2	151	10,720 302	4.11 0.29	0.03	0.00
9/10/2013	SHM11	Rural-short	Replace Overhead	2	101	302	0.29	0.00	0.00
9/10/2013	TT 11	Urban	Assets	93	110	10,230	2.07	0.02	0.00
10/10/2013	C0011	Rural-short		5	242	1,210	0.74	0.02	0.00
			Replace Overhead	0	212	1,210	0.71	0.00	0.00
10/10/2013	NH 05	Urban	Assets	42	180	7,560	1.68	0.01	0.00
						,			
11/10/2013	COO11	Rural-short	Tree Clearing/Bushfire						
			Mitigation	2	100	200	0.12	0.00	0.00
11/10/2013	SBY32		Regular Maintenance	13	195	2,535	0.87	0.00	0.00
11/10/2013	TT 03	Urban	Regular Maintenance	28	240	6,720	2.00	0.01	0.00
11/10/2013	TT 03	Urban	Replace Overhead	0	070	540	0.40	0.00	0.00
			Assets	2	270	540	0.16	0.00	0.00
12/10/2013	CS 02	Urban	Regular Maintenance Replace Overhead	39	250	9,750	1.77	0.01	0.00
12/10/2013	CS 05	Urban	Assets	13	70	910	0.19	0.00	0.00
12/10/2013	ST 34	Urban	Regular Maintenance	20	435	8,700	28.90	0.00	0.00
			Replace Plant and	20	-00	0,700	20.30	0.07	0.00
13/10/2013	EP 20	Urban	Equipment	3	409	1,227	3.98	0.01	0.00
13/10/2013	ES 03	Urban	Regular Maintenance	44	113	4,972	1.90	0.02	0.00
			Replace Plant and						
13/10/2013	NH 12	Urban	Equipment	1	176	176	9.78	0.06	0.00
14/10/2013	EP 11	Urban	Upgrade Capacity -						
		Urban	subs and LV	55	410	22,550	47.88	0.12	0.00
14/10/2013	TT 03	Urban	Regular Maintenance	11	390	4,290	1.28	0.00	0.00
15/10/2013	EP 02	Urban		55	307	16,885	259.77	0.85	0.00
15/10/2013	EP 20	Urban	Upgrade Capacity -						
			subs and LV	14	305	4,270	13.86	0.05	0.00
15/10/2013	HB 14	Urban	Short Interruption	21	133	2,793	1.64	0.01	0.00

16/10/2013	EP 11	Urban	Replace Overhead Assets	41	205	8,405	17.85	0.09	0.00
16/10/2013	SBY32	Rural-short	Replace Overhead Assets	91	368	33,488	11.54	0.03	0.00
16/10/2013	TT 03	Urban	Replace Overhead						
17/10/2013	SHM14	Urban	Assets Upgrade Capacity -	24	220	5,280	1.57	0.01	0.00
			subs and LV	160	458 450	73,280	19.22 0.22	0.04	0.00 0.00
17/10/2013 17/10/2013	ST 32 TT 03	Urban Urban	Regular Maintenance Regular Maintenance	3 46	330	1,350 9,300	2.77	0.00	0.00
	1		Extended Electricity	40	330	9,300	2.11	0.01	0.00
18/10/2013	SHM12	Urban	Supply	7	355	2,485	0.88	0.00	0.00
18/10/2013	SHM14	Urban	Regular Maintenance	27	125	3,375	0.89	0.01	0.00
18/10/2013	TT 03	Urban	Regular Maintenance	9	300	2,700	0.80	0.00	0.00
18/10/2013	TT 08	Urban	Regular Maintenance	40	310	12,400	5.06	0.02	0.00
19/10/2013	FW 06	Urban	Regular Maintenance	10	155	1,550	1.62	0.01	0.00
19/10/2013	TT 10	Urban	Replace Overhead Assets	29	276	8,004	1.83	0.01	0.00
20/10/2013	CS 12	Urban	Replace Overhead Assets	32	205	6,560	3.36	0.02	0.00
20/10/2013	ES 03	Urban	Replace Overhead Assets	41	210	8.610	3.29	0.02	0.00
20/10/2013	NT 15	Urban	Regular Maintenance	142	240	34,080	31.85	0.13	0.00
20/10/2013	SBY14	Rural-short	Regular Maintenance	2	178	356	0.09	0.00	0.00
20/10/2013	TT 10	Urban	Replace Overhead Assets	12	305	3,660	0.84	0.00	0.00
21/10/2013	TT 10	Urban	Replace Overhead						
00/40/0040	00044	<b>D</b> and the st	Assets	<u>35</u> 23	210 266	7,350 6,062	1.68 3.69	0.01	0.00 0.00
22/10/2013	C0011	Rural-short	Regular Maintenance	23	200	0,002	3.69	0.01	0.00
22/10/2013	TT 11	Urban	Replace Overhead Assets	16	240	3,840	0.78	0.00	0.00
23/10/2013	CS 02	Urban	Improving Reliability	3	157	471	0.09	0.00	0.00
23/10/2013	FW 04	Urban	Replace Overhead Assets	121	126	15,246	10.59	0.08	0.00
23/10/2013	TT 11	Urban	Replace Overhead Assets	43	480	14,880	3.01	0.01	0.00
23/10/2013	YTS06	Urban	Replace Overhead Assets	34	355	12,070	14.12	0.04	0.00
24/10/2013	FF 89	Urban	Replace Overhead Assets	22	330	7,260	19.95	0.06	0.00
24/10/2013	SBY14	Rural-short	Regular Maintenance	43	277	11,911	2.96	0.01	0.00
24/10/2013	TT 11	Urban	Replace Overhead Assets	17	155	2,485	0.50	0.00	0.00
24/10/2013	YTS06	Urban	Replace Overhead Assets	34	410	13,940	16.30	0.04	0.00
25/10/2013	BD 01	Urban	Regular Maintenance	31	390	12,090	7.24	0.04	0.00
25/10/2013	CS 02	Urban	Replace Overhead			,			
			Assets Replace Overhead	65	225	14,625	2.66	0.01	0.00
25/10/2013 25/10/2013	FW 16 ST 32	Urban	Assets Regular Maintenance	<u> </u>	235 343	3,760 1,029	1.49 0.17	0.01 0.00	0.00 0.00
23/10/2013	51 52	Unall	Regular Maintenance	5	040	1,023	0.17	0.00	0.00

26/10/2013 NH 20 Urban Replace Overhead Assets	25	335	8,375	4.41	0.01	0.00
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Annual Feeder Reliability 2013 Table 1 Annual Feeder Reliability Data

Description of the service area for the feeder to / name feeder	ion Number of distribution distribution (verthead)	e Length of high voltage distribution lines (underground)	Maximum demand (MVA)	Energy not supplied (unplanned) (MWh)	Energy not supplied (planned) (MWh)	Total number of 1 unplanned outages mi	Total unplanned inutes off-supply	ed minutes off-supply removing excluded vents and MED)	Japlanned interruptions (SAIFI)	Unplanned interruptions (SAIF1) (after removing excluded events and MED)	Total number of planned outages	Total planned minutes off-supply	Planned interruptions (SAIFI)	Total number of momentary feeder outages	Total number of momentary feeder section outages	Momentary Interruptions Interruptions due to feeder outages Interruptions due to feeder outages (MAIP) (after removing excluded	Momentary to fe interruptions due to feeder section outages (after	etary interruptions due seder section outages (MAIFI) er removing excluded	Low Reliability Feeder (SAID()	Low Reliability Feeder (MAIR)
	725 4.6 3054 11.0			1.83	0.43	6 7	23/66	23955 250942	1623 7302	1623	2	18822 89832	58 225	0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	events and MED) 0 N	-	N N
App C1         Amount Yound         Values           App C2         Amport Yound         Unlow           App C3         Amport Yound         Unlow           App C4         Amport Yound         Unlow           App C5         Amport Yound         Unlow	255 6.1 1940 114		12.50 13.22	22.15	0.34	5	220942 23311 113500 30215 400502 61011 133353 8153 40911 67205 332371 3015 332371 0 215	23715	563 3891	258 3891	1	3200 12545	10 41	0	0	0 C	0	0 0		N N
AW 05 Airoot West Urban AW 05 Airoot West Urban AW 07 Airoot West Urban	543 48 4576 16.7 4550 16.1	19 0.88 11 1.65 16 5.71	7.52 12.32 10.90	3.36 4.47 0.63	0.18 0.16 0.16	2 11 9	39215 409592 61101	39215 409098 24254	1076 7679 330	1076 7678 154	6 9	6870 45100 50590	21 162 183	0	2	0 0	4285	4205 M		A N
AW 05 Airport West Urban AW 02 Airport West Urban AW 11 Airport West Urban	2343 14.4 2446 9.4	6 8.28 19 7.25	10.12	0.15	1.05	0	138383 8183	116283 8183	4552 35	4509	4	132593	347 7	1	0	2329 0	0	0 N 0 N		N
AW 11 Arport West Urban AW 12 Arport West Urban AW 14 Arport West Urban	1940         114           543         4.8           4476         167           2343         144           2445         244           4473         60           1283         4.5           1283         5           1273         17	5 5 825 10 7.25 10 5.51 10 5.51	9.22 6.74 9.75	5.84 1.83 1.23	0.29	10 5 3	46911 67295 19015	46911 66547 19015	986 2021 1302	986 2020 1302	3	7673 6825 13260	21 35 34	0	0	445 446	0	0 N 0 N 0 N		N N
AW 12 Anort West Urban AW 14 Anort West Urban BD 01 Broadmeadows Urban BD 02 Broadmeadows Urban BD 03 Broadmeadows Urban	1671 11.2 1 0.6 352 4.0	21 5.51 17 0.07	10.53 5.54 10.53	14.09 0.00 0.05	0.21	7	382771	382771	6594	6594	5 0	19102	53	0	2	0 0	1114	1114 N 0 N		N
BD 03 Broadmeadows Liben BD 04 Broadmeadows Liben RD 05 Broadmeadows Liben	1045 8.1	4.43	10.52	r 0.05	0.00	8 10	265493	216 265493	4252	4252	4	50 29551	129	1	0	386 388 1037 1037	0	0 0 0		A N
5D 07 Broadmastows Urban 5D 05 Broadmastows Urban	1 0.7 3952 232 752 8.4 659 51 1111 6.5 2797 10.0	75 0.08 10 2.05 19 0.85	15.00	0.10	0.31 0.15	10	0 269588 1873	269588 1873	10537	10537	7	69474 9060	274 20	1	2	661 661 1528 1528	3718 591	3715 N 591 N		N N
BD 02 Broatmadows Urban BD 10 Broatmadows Urban BD 11 Broatmadows Urban BD 13 Broatmadows Urban	000 5.1 1111 6.6 2797 10.0	49 0.86 15 1.29 19 4.31 17 1.72	12.10	0.10 0.25 4.65 0.62 5.77	0.00	3	1873 5076 77673 34160 52501 857 1917	71543 34058	22 1184 409	52 1165 408	0	0	0 18	0	0	0 0	0	0 0 0		n N
8D 13 Broadmeadows Urban 8D 14 Broadmeadows Urban	514 10.0 557 6.0 804 8.0	20 3.10 25 2.98 14 1.60	12.65 10.00 10.63	0.04	0.07	4 0	52561 867	52493 857	1043 6	1042	2	2233	11 63	4	0	2067 2067 1146 1146	0	00		N
BD 15 Bradmesows Urban BD 16 Bradmesows Urban BY 11 Bradmook Urban	1444 9.0	2.40	8.04	0.06	0.47	0		853 303534	12 6 4758	5	1	40535	129	0	0	0 0	0 2501	0 N 2001 N		A N
BY 12 Braybrook Urban BY 13 Braybrook Urban	4005 164 1245 4.5 752 3.0	14 2.44 0.70 1.75	3.10	4.34 2.95 3.59	0.00	14	313441 155509 33431	120224 21144	1981 81	1926 57	N	114 630	27	1	1	1244 1244 851 851	738	735 N 0 N		N N
BY 15 Braybook Urban CN 01 Coburg North Urban CN 02 Coburg North Urban	2897 120 989 6.1 103 1.8	6 3.32 14 2.21 17 0.31	7.54	E 19.17 16.18	0.01	4 0 5	33431 437560 322243 23315 142669 533552 221673	302243 23315	4610	4510 338	2	5010 700 5034	20 9 16	0	0	0 0	0	0 0 0		A H N
CN 02 Coturg North Urban CN 03 Coturg North Urban CN 04 Coturg North Urban	449 4.8 2990 9.2 1360 7.3	5 0.93 6 1.92 9 5.73	8.90 6.50	14.74 7.01 14.74	0.74	80.0	145560 538522	146969 538522	1953 9451	1953 9451	5 02	24637 159088 94512	90 493	0	0	0 0 7676 7677	0	0 0 0		N N
CN 05 Coburg North Urban	3941 13.0 2050 9.5	5 1.59 15 1.33	8.00			14	500154 104536	494350	16023 4241	18004 4231	17	69022 68964	298 271	0	0	0 0 4168 4168	0	000000000000000000000000000000000000000		e n
CN 05 Coburg North Urban CN 07 Coburg North Urban CN 05 Coburg North Urban CN 05 Coburg North Urban	5391 157 2034 67	1.30	9.14	2.54	0.37	6 0 7	239731 187725	239731 187725	12854 5372	12854 5372	10	115747 67555	400	1	0	4935 4935 1271 1271	0	0 0		N N
CN 05 Coburg North Urban CN 09 Coburg North Urban CN 10 Coburg North Urban CN 11 Coburg North Urban	5321 15.7 2034 6.7 45 2.4 1945 6.2 2523 8.5	1.07 11 1.35	* 38 8.54 7.12	246 254 162 254 162 255 162 255 162 255 162 255	0.14	5 14	10103 500154 104506 239731 102725 505 27276 100752	26793 169752	40 1999 5542	100 1008 5542	5	20806 14652 30129	40 91 169	0	0	0 0 0	0	0 N 0 N		a N
COO11 Coolaroo Rusal-short COO12 Coolaroo Urban COO13 Coolaroo Urban	1641 1358 1 0,2 7912 6,2	15 24.35	8.65 4.70	5 1.33	4.52	15	34975	34707	682	651	50	401295	1342	1	8	1085 1085	2506	2505 N		A N
COO14 Coolatoo Urban COO14 Coolatoo Urban COO21 Coolatoo Urban	2507 1.3 1926 16.8	13 11.20 18 13.88 15 10.58	5.30	0.43	0.00	8	36518 78842	36515 19894	3980 171 973	3200 171 92	0	0 20657	0	0	0		0 881	0 N 881 N		Ń N
C0022 Coolaroo Urban C5 02 Coburo South Urban	2463 0.7 5504 14.5 3833 66	19.29 57 1.05	10.35	1.30	0.00	5 17	42779 345852 828775 204576	49779 315345	201 6271	201 6167	18	0	0 724	0	0	0 0	0 1289 2017	0 N 1289 N		A N
CS 03 Coburg South Urban CS 05 Coburg South Urban CS 05 Coburg South Urban	4717 12.1 2945 8.5	0.71	8.57 7.28	212	0.33	13	204576 289389	161770 289109	2314 2454	2161 3483	12	105822 133930	200 404 358	0	0	0 0 0 7631 7631	0	0 N 1691 N		N.
CS 05 Coburg South Urban CS 09 Coburg South Urban CS 12 Coburg South Urban CS 13 Coburg South Urban	2240 8.5 10203 4.0 10252 9.1 1777 5.5	5 2.21 13 1.83 13 0.89 16 2.52	4.60 6.53 3.20	5 536 1.80 5 2.93 1.23	0.00 0.41 0.05	10 9 8	289389 137074 105463 90373	119941 82393 9017*	4057 311	4008	5	0 50450 19992	0 187	1	1	1981 C	1304	1304 N 0 N		A N
Chi Loo         Data Lang         Data Lang         Data Lang           CF0         Data Panton         Char           DF0         Data Panton         Char	65 0.7 94 1.0	7 0.47	2.65	s 0.00 s 0.01	0.73	0	0	0 164	0	0	1	16885	25 0	0	0	0 0	0	0 10		N N
EP 04 East Preston Urban EP 07 East Preston Urban EP 09 Fast Preston Urban	13 1.1 44 1.2 235 2.5	13 0.37 12 0.72	2.70	0.30 0.03 0.03	00.0	1 0 2	745	745	2	2	0	0	0	0	0	0 0	0	0 0		4 N
EP 11 East Paraton Urban EP 15 East Preston Urban	471 2.8 55 1.9	5 0.55 5 0.15	2.00	0.01	0.19	0	472	472 95	4	**	20	30955	26	1	0	515 515 0 C	0	0 0		N
EP 17 East Preston Urban EP 18 East Preston Urban EP 20 East Preston Urban	130 1.0 16 1.2 356 2.5	2 0.60 7 0.59	3.32	5 0.00 5 0.72	1.15	0	0 1553 17758	0 1553 3738	0 9 741	0 9 781	3	24540	64 0 00	0	0	0 0 16 16	0	0 4 6		4 N
EP 27 East Preston Urban EP 34 East Preston Urban	26 0.0 1445 52	25 1.49 10 0.75	1.87	0.03	0.00	1	120 9291	120 8957	3 84	3	0	0 4755	0	000	0	0 0	0	0 0		N
EP 35 East Preston Urban EP 36 East Preston Urban EP 37 Fast Preston Urban	31 1.8 946 52 815 36	15 0.40 12 0.15 15 0.33	2.95	0.19 0.25 0.15	0.00	2	326 21555 6235	325 21595 8235	2 1001	2 1001 58	5	0 47515	0 92 401	0	0	0 0	0	0 N		4 N
EP 41 East Preston Urban EP 42 East Preston Urban ES 01 Exercision Urban	55 14 302 25 1135 43	1 0.54 5 0.54 13 0.54	2.82	0.05 2.23 0.09	0.00	0	190 37038 3912	190 37038	2 290	2	0	0 3550	0	0	0	0 0	0	0 0		N
ES 01 Essention Urban ES 02 Essention Urban ES 03 Essention Urban	1136 4.3 1468 50 2614 7.6	13 0.54 12 0.72 12 1.13	4.00	0.43	0.35	8	3912 30652 179018	3912 29522 167528	271 1983	37 268 1950	4	0 83346 46603	0 348 205	0	0	0 0 0 0 2115 2115	0	0 0		8 N
ES 06 Essendon Urban ES 07 Essendon Urban	2034 5.7 1277 3.7	73 1.96 78 0.45	6.57 5.58 3.07	r 2.04 5 0.29 7 0.29	0.00	4	30652 179018 12644 22007	4031 22007	96 115	35	0	0	0	0	0	0 0	0	0 10	2	N
ES 11 Essendon Urban ES 12 Essendon Urban ES 13 Essendon Urban	1258 3.4 1232 2.7 1838 4.2	2 0.55 16 1.80	4.52 4.52 5.73	0.43 0.05 0.13	0.02 0.01 0.27	1	20050 2405 6524 18028 508545 195380 195380	28833 2495 6954	211 29 74	210 29 74	1	5375 1080 46705	25 6 185	0	0	0 0	0	0 N 0 N		N N
ES 14 Essendon Urban FE 05 Footscray Urban FE 05 Footscray Urban	1050 3.8 3070 8.4 4154 9.9	1.80	4.55 7.28 12.00	0.38	0.00	3	18028 508545	9874 487181 156389	122 6719	91 6555	2	0 56950 36065	0 216	1	0	0 0 0	0	0 0		N N
FE 05 Ecotoray Urban FE 05 Footscray Urban FE 09 Footscray Urban	4154 9.9 2255 3.4 3254 7.7	13 0.86 19 8.44 14 5.01 17 1.15	12.00 9.37 6.17	0.47	0.22 0.95 0.49	7. 4 13	155389 15713 204315 55030	156389 15713 204315	724 135 2777	794 135 2777	2 9 8	36066 105837 170119	123 314 475	0	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	0 0 0		N N
	971 26 1255 3.5	14 0.24 8 0.37	1.92	0.82	0.14	20	56030 1627	58030 1627	1024	1024	3 10	31410 75218	176	0	0	0 0	0	0 0		n
FF 55         Partield         Ubtain           FF 50         Farlield         Ubtain           FF 50         Farlield         Ubtain           FF 50         Farlield         Ubtain           FF 50         Farlield         Ubtain           FF 55         Farlield         Ubtain           FT 51         Farlield         Ubtain           FT 52         Farlield         Ubtain	364 33 1027 34 1642 4.7	0.85 0.39 0.07 0.07		0.00 0.10 0.47	0.45 0.00 0.37	0 2 4	1627 59 6595 46047 18583 71571	6595 46047	230 63	230	0 13	38514 0 119724	20 0 525	0	0	0 0	000	0 N 0 N		8 8
FF 95 Fairleid Udan FT 01 Flemington Udan FT 02 Flemington Udan	1025 3.6 3638 6.7	0 0.39 70 2.65 50 5.38	2.3	0.22	0.21		18583 71571	18583 23540	58 351	58 220	4 3	59380 41920	180	0	0	0 0	000	0 10		N N
FT 04 Flamington Urban FT 05 Flamington Urban	2/2 13 1006 28 2401 4.6	15 2.19 18 2.03	3.98	0.00	0.00	- 40	6607 5167	6097 5167	50 42	50 42	0	0	0	0	0	7172 7172	0	0 N 0 N		8 N
FT 05 Flamington Urban FT 02 Flamington Urban FT 10 Flamington Urban	282 0.9 1717 3.0	6 126 6 322	2.17 4.65	r 0.02 5 4.24 2 1.62	0.00	0	394 195785	394 195765	4 5552	4	0	0 8925	21	000	0	0 0	0	0 0 0		N N
FT 13 Flemington Urban FT 14 Flemington Urban	1793 3.0 1552 1.8	0 5.56 18 1.70	4.00 5.81 4.00			2 2	19775	19775	59 2355	59	1	9486 444	н ж 2	0	0	0 0 1229	0	000000000000000000000000000000000000000		a N
III         Plannpoor         Urban           III         Plannpoor         Urban           III         Plannpoor         Urban           IIII         Plannpoor         Urban           IVIO         Plannpoor         Urban           WOO         Postaron West         Urban           WOO         Fostaron West         Urban	89 0.1 1439 54	3 0.94 8 1.50	3.43	5 578 5 0.00 5 2.95 4 30	0.00	0	0 71718 277043	0 63955 277543	1141	0	0	0 41760	0 235	0	0	2820 2820	0	0 0		A N
FW 05 Footscray West Urban FW 05 Footscray West Urban FW 05 Footscray West Urban	956 5.5 2932 8.6	2 1.14 33 2.65 50 0.83	4.50 4.50 8.31	1.09	0.07	4 16	277043 32850 223429	32890 214205	400 186 3545	409 185 3529	2	7200 64777	53 15 256	0	0	0 0 2910 2910	000	0 N 0 N		a N
	1413 90 472 5.1 2530 0.1	14 0.64 15 0.25	8.54 11.52 4.77	6.39 18.64	0.37 0.08 0.67	5	155261 97243 385473	155261 97243 357143	1737 1477 4300	1737 1477 2741	5	30306 1440	50 4 A27	1	0	1342 1342 471 471	0	0 1		A N
FW 13 Footscrav West Ublan FW 16 Footscrav West Diblan FW 17 Footscrav West Diblan Hill 14 Heidelberg Diblan Hill 15 Heidelberg Diblan	2263 8.5 1708 5.3	9 0.31 11 2.00	4.00	323 242	0.25	10	155281 97243 385473 316521 134263 37551	276150 134393	2853 3521	2782 3521	3	81735	212 770	0	0	0 0 5100 5100	0	0 10		N N
HB 15 Heldeberg Urban HB 22 Heldeberg Urban HB 23 Heldeberg Urban	200 93 1133 50 1460 54	0.90	5.85	0.52	0.57 0.09 0.14	6		37931 68725 6644	175 1303	175	16 2	137658 14850 944/2	624 53	0	0		0	0 1		A N
HB 24 Heidelberg Urban HB 31 Heidelberg Urban	1400 54 875 54 740 15	0.53	246 346	5.70	0.27	0	66977 72775 177950	72775	1527 749	1527 749	10	41575	174	0	0	0 0	0	0 10		N
HB 32 Heidebero Urban NH 02 North Heidebaro Urban	513 20 4230 163 1293 9.1	0 58 0 4.11	3.14	0.57	0.02 0.25 0.18	1	177560 15754 405778 187804 234077 590109 6729	15764 405778 187804	516 5216 2735	516 5216 2735	5	1440 77563 17028	6 384	1	0	514 514 0 0 0	0 5938	0 N 5935 N		A
NH 03 North Heidelberg Urban 9H 05 North Heidelberg Urban NH 05 North Heidelberg Urban NH 09 North Heidelberg Urban	4512 16.1 2607 11.6	19 1.13	6.46 5.20	2.11	0.27	377	234077 590109	70171 500100	3392 8675	1272 8675	12	99935 95718	597 373	2	2	7839 7835	4208 1375	4205 N 1375 N		N N
	636 6.5 18 0.0 405 0.8	0 1.28 10 4.03 11 2.79	9.64 4.54 6.32	0.61	0.40 0.10 0.00	6 0	455	6729 0 455	84 0 2	84 0 2	5	14630 176 0	47	0	0		0	0 N 0 N 0 N		A N N
NH 13 North Heideberg Urban NH 15 North Heideberg Urban NH 17 North Heideberg Urban	2528 7.1 2230 8.1	5 4.49 6 2.26	7.60	295	0.05	5	165809 16136	166809 8695	513 301	513	2 5	8570 228116	51 600		0	2537 2533 2221 2221	0	0 0		N N
NH 17 Noth Heideberg Urban NH 22 Noth Heideberg Urban NS 07 Noth Essendon Urban NS 08 Noth Essendon Urban	1901 7.5 992 3.7 1153 2.9	8 2.29 11 1.68 5 0.26	3.14 4.34 2.78	1.52	0.10 0.00 0.01	2	12130 138004 125348 20988	135758 1916 19270	1947 1050 71	1946 10 68	202	28510 0 3246	96 0 18	0	0		0	0 0		A N
NS 09 North Essendon Urban NS 11 North Essendon Urban	957 3.6 0 0.0	1.15 0 0.05	3.91	0.07	0.04	8	2485	2485	1	11	1	5145	21	0	0	0 0	0	0 0		N N
NS 12 North Essendon Urban NS 14 North Essendon Urban NS 15 North Essendon Urban NS 16 North Essendon Urban	1302 3.6 1402 5.6 1547 4.4	1.17 11 1.26	3.10 4.70 4.30	5 0.24 5 1.70 5 0.14	0.11	3	21814 102068 8502	21814 102058 8507	192 1617 45	192	2	35039 0 7720	113 0 75	2	0	0 0 2829 2825 0 0	0	0 0		N
NS 16 North Essendon Urban NS 17 North Essendon Urban	707 3.1 821 3.5	0.42 0.51	1.73	0.37 0.63	0.00	2	30762 42679 160852	30549 39916	728 346	727	0	0	0	0	0	0 0	0	0 10		N N
NS:17         North Essendon         Ubban           NS:16         North Essendon         Ubban           NT 01         Nexport         Ubban           NT 02         Nexport         Ubban           NT 04         Nexport         Ubban	1735 3.4 2 0.6 3154 11.7	2.64 7 5.65 10 3.91	10.00 4.22 10.49	6.32 0.00 7.62	0.00	2 0 12	100852 0 454595	160852 0 150740	3478 0 3047	3478	0	275 0 5444	5 0 238	0	0	0 0 0 0 3362 3362	0	0 N 0 N		N N
NT 04 Nexport Liden NT 10 Nexport Liden	1597 3.3 1029 1.8	195 195 0,83	8.00	1.45	0.25	-	38650 64508	38500 64508	141 932	140 932	4	22009	9 2	0	0	0 0	0 0	0 0		N N
NT 11 Newport Urban NT 15 Newport Urban NT 16 Newport Urban	3418 9.5 1070 5.4 213 20	8 2.12 11 2.94	9.52	5.97	0.16	8 7	474276 20508 24503	474276 14724 2603	4946	4946	3	41587 35346	162	0	3	3569 3569	4505	4505 N 0 N		A N
P 55 Preston Uidean	2796 8.6 2 20	10 2.55 5 0.25	2.85 1.42	1.25	0.23	8	208088 833	208088 833	533 694 2	533 694 2	12	128385	450	0	0 8 0		4535	4635 N 0 Y		N N
P 57 Preston Urban P 55 Preston Urban P 59 Preston Urban	102 1.7 0 0.1 823 2.4	0.28	0.25	0.57	0.00	1	42632	42532 0	101	101	000	0	0	0	0	9	00	0 7		A N
P 61 Preston Uiban P 62 Preston Uiban	84 0.5 671 1.8	101 0.15 12 0.81	0.27	0.00	0.00	0	239 961	239	27	27	0 2	9450	0	0	0			0 0		я N
P 63 Preston Urban	542 2.5	0.13	2.31	0.01	0.00	0	877	877	6	6	0	0	0	0	0	0 0	0	9 N		8

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	Preaton	Urban						5 19256 192			3 44154						
	Pascos Vale						9.13	1 3923 31			2 23573						
	Pascoe Vale		715 2. 467 2. 3101 10.	17 0.68 62 1.62 06 0.5	0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00	0.00	0.20	5 10256 192 1 3623 31 2 16724 163	47 30		5 74934	239					
												100					
	Pascoe Vale		2757 10.	07 0.9			0.22	4 189745 113			6 72107						
	Pasicoe Vale	Urban	2757 10. 1704 5. 1236 5.			1.89 0.12 0.33		4 182745 111 3 12160 112 1 25529 265 7 147219 147 2 132565 132 1 32140 322			1 14364						
	Pascoe Vale		1236 5	60 0.11			0.00	1 26329 263									
	Pascoe Vale		2492 9. 2344 8.	89 0.43			0.05	7 147219 1472									
	Pascoe Vale		2344 8	20 0.1			0.01	2 13686 136									
	Pascoe Vale		1643 6	89 0.5		1.51 0.14 0.65	0.00	1 39149 391						0 1573 1573			
	Pascoe Vale		1955 5.					1 132634 1326			5 13903						
		Rural-shot	1956 5 63 14 143 4	81 1.45 04 0.00	4.46 0.23	2.14 0.07 0.01	0.07	1 132634 1326 2 4070 40 1 641 0			1 1410						
	St Aban						001	2 4070 40			1 1410						
	52 Aban	Urban						1 641 0									
	St Aban																
	St Aban		43	25 0.85	2 0.04	0.00		1 3055 30									
	Sunbury	Rural-short					0.15	24 148296 1482									
20111	perpery	HUTE-SPOT	2973 62	19 10.7- 94 23.11 81 7.92	6.85	2.14	v.16	1482	395	383	37364	208	1	0 2947 2947		N	10
58Y14	Sunbury	Rural-short	4023 90	94 23.11	10.94	10.55	1.59	17 610720 6107 2 14415 144	20 1415	14166	30 307772	1364	2	1 7605 7605	10251 1025	IN	IN
58Y31	Sunbury	Urban	2110 6	81 7.90	7.35	0.35	0.65	2 14415 144	15 211	2116	4 90480	316	1	0 2105 2105	0	N	N
88533	Sanhary	Rural-short	2901 116	10.2		8.01	0.33	29 615828 6151	18 1178	11788	47 B3811	374	2	11 5796 5796	6345 (344		
000100			110	10.2	6.30	8.01	0.02	44 VL080 010	11/0	11/60	42 83511 3 6285	3/4	4	2/10 2/10 2/10	9000 5095	10	12
20123	Surbury Sydenham	Urban	2954 14.	58 10.2 16 4.5 56 2.6	6.10	0.10	0.02	2 8243 71	42 17	174	3 6285	49	0	u 0 0		N	10
		Rural-short						14 45742 461			22 22342						
SHM12	Sydenham	Urban	2830 4	71 14.9	8.04	0.09	0.34	2 6540 65	40 3	35	4 79835	173	0	0 0	0	N	N
RHM14	Sydenham	1 bhan	1930         1           2273         62           2273         62           2110         6           2201         116           2204         146           1940         64           2330         4           2313         16           4653         3	71 14.90 96 22.31	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 31 2 14 1055 8 01 0 024 0 029 9 71 1.55 0.000 7.77 8 50	0.99	34         44500         145           17         55220         650           2         34432         161           22         513620         655           2         34243         17           2         3424         0           2         3424         0           3         672464         672	27 1372	13714	4 79835 13 228830	560	2	0 7408 7408	0	N	N
		Urban	4653 3.				0.00	3 172131 1721						0 9709 9709			
	Sydenham Sydenham			89 20.2 00 0.8 92 3.8													
		Urban	1 0		7.58		0.00										
	Somerton		179 6				0.00	3 25778 257									
	Somerton		239 9	51 3.14	8 8.41 6.36 7.20		0.09	5 29376 293									
		1 Marco	180 4				0.03	1 5487 54									
	Somerion			79 4.2													
	Somerton		79 0.	4.9			0.09										
	Somerton																
	Somericon	Libhan	2 0. 6014 19 141 7.	00 1.1 08 32.9 12 3.5	0.38 0.38 16.19 11.35	8.50 1.18 0.00 0.00 8.32 3.91	0.00	13 536167 5361	87 1421		14 150733	474		2 5110 5110	3681 3681		
	Somerton						2.77	1 6879 68			5 16249						
	Somerton			00 3.77 00 0.65 96 27.2 26 4.5 20 6.7	r 4.92 2 6.67 7 9.64 8 8.31 8 10.06		0.00										
	Somerton																
	Somerton		6009 10				0.02	7 199871 1997	71 588						6180 6180		
			3170 10				0.00										
	Somerion							2 6782 67 3 22236 222							2439 2431		
	Somerton	Urban	301 7.				2.03	3 22236 222			5 43342	136					
	Totterham						0.51	4 12586 127			1 2940						
	Tottenham			10 0.83			2.02	4 17555 176 4 5704 51			1 2940						
100 CA	Toterham	Urban	1 0 1 0 5009 70 3170 10 301 7 61 3 25 3 55 3	0.6		000 000 1.63 0.02 3.46 1.322 2.57 0.00 4.73 3.25 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.17	4 2/24 21		60	2010	0			1 2	1	12
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TH 21	Totenham	Urban	105 5.	48 0.8	13.11	4.23	0.00	5 19754 180 11 137830 1050	19 20	205	0 0	0	2	0 350 350	0	N	N
TH 22	Totenham	Libhan	885 10	35 3.27	5.15	3.05	0.01	11 137830 1050	45 114	1000	1 688	2	0	0 0	0	N	N
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10.42		Urben	2 0.	0.0	0.00	0.00	u.00		0	0	0 0	0	0	0 0		10	10
TH 24	Totenham	Urben	0 0	00 0.00	0.00	0.00	0.00	0 0	01	0	0 0	0	0	0 0 0	1 01 0	IN	IN
TT 03	Thomastown	Urban	3350 13	16 4.2	5 9.49 5 6.52 5 7.95	3.16	1.18	9 214005 2113	39 323	3221	27 266300	925	1	1 2824 2824	1124 1124	N	N
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11.00		A STATE OF	4373 14	23 1.2	6.54	1./6	0.23			262	21 179792	596	1	0 432 2432		10	12
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TT 11	Thomastown	Urban	4939 18	36 1.0	9,49	2.46	0.59	18 222958 2221	95 065	6650	24 179021	682	1	0 5366 5366		N	N
WT 04	Wateonia	Lithan	4939 18 143 3	36 1.0- 07 1.5	2.21	0.27	0.00	2 2507 25	07 55	167	0 0	0		0 145 145	0	N	N
VTPAL	Yanavile	These	2491 7.	55 13.65	9.49 2.21 5.91	2.46 0.27 0.34	0.00	18 222958 2222 2 2507 22 6 22812 228	12 24	240	0	0		0 2530 2530		N.	10
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Y1502	Yanavile	Urban	138 1 649 4 772 3	55 1.0	4.08 6.21 3.54	17.23 7.03 3.00	0.98	2 53261 532 7 105654 714 7 107676 1076	61 17	170	1 10140	25	0	0 0 0	0	Y	IN
YTS03	Yaravile	Urban	649 4.	78 2.73	6.21	7.03	1.64	7 105654 714		1300	7 82344	201	0	0 0 0	0	Y	N
YTS04	Yaravile	Lithan	772 3	15	3.54	3.00	0.62	7 107676 1076	25 232	2391	3 74160	168	0	0 0	0	N	N
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Y1506	Yaradle	Urban				6.46	0.32	11 240319 2388 1 45103 481 4 93271 311		3777	5 39094	116	0	0 0 0	0	Y	IN
YTS07	Yaravile	Urban	925 2. 510 6	13 5.8	1.71	0.45	0.01	1 45103 481	03 92	926	1 5291	13	0	0 0	0	N	N
YTS08	Varraulla	Libhan	510 6	29 5.0	423	4.75	0.00	4 93271 311	55 54	505	0 0	0	0	0 0	0	N	N
VTP10	Yarravile Yarravile	Linkson	1 0	00 0.54		0.00	0.00				0		0			N.	10



# Jemena Electricity Networks (Vic) Limited Cause of Outages and Worst Served 15 per cent customers 2013

Table 1 Causes of Unplanned Sustained Outages

Cause of outage	Number of outages
Weather	174
Equipment failure	440
Operational error	3
Vegetation	27
Animals	97
Third party impacts	114
Transmission failure	0
Load shedding	0
Inter-distributor connection failure	4
Other	101

Table 2 Minutes off Supply for Worst Served 15 per cent customers

Minutes off supply (worst 15%)	184

The AER will use the ESCV's definition of minutes of supply for worst served 15% of customers. This is defined as the total annual minutes off supply (SAIDI for planned and unplanned sustained interruptions) experienced by the 15% of customers in the distribution business area connected by those feeders experiencing the longest time off supply.

### Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-3

Reconciliation between statutory accounts and regulatory accounting statements

Public



29 April 2014

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JEN RIN - (Section 1c) Details (\$000's)		Template 1 Income Statement	Comments
Statutory Accounts		98,531	Profit after tax per page 3 of statutory accounts
Revenue		1,632	
Net Designated Pricing charges and Jurisdictional Schemes	11,852		Timing difference between recovery and costs for designated pricing charges and jurisdictional scheme.
Customer Contributions	(10,159)		Not carried into Regulatory Accounts per Appendix A 4.1 (a)
Other Revenue	(62)		Revesal of CY12 RIN adjustments.
Cost of Sales		39	
Net Designated Pricing charges and Jurisdictional Schemes	39		Variance between accrual and actual for cross bounday charges.
Operating & Maintenance Expenses		362	
Amounts included in Statutory ESF CAM Allocation, which is not directly related to JEN (increase to Statutory NPAT)	(274)		Statutory accounts included costs allocated from other Jemena Group Assets, that do not relate to JEN.
Depreciation on Corporate Assets	(992)		For statutory purposes some JEN assets are depreciated at the corporate level (Jemena Group). This adjustment moves the depreciation to JEN's level for RIN purposes.
AMI Opex	530		AMI Opex True Up (post December 2013 reconciliation for calendar year 2013)
Reversal of CY13 Works Delivery opex true up	1,175		The Statutory Accounts includes a reversal of a CY13 true up of Works Delivery opex costs. This has been backed out of the RIN as it relates to the prior year.
Other Expenses	(47)		Recoverable works expenses that are incorrectly allocated to capex in the Statutory Accounts.
Hedge Reserve Correction	(31)		Hedge Reserve Movement correction.
Finance Costs		28	
Interest expense	28		Finance costs are not carried into Regulatory Accounts.
Depreciation		(5,147)	
Depreciation on the Customer Contribution component	3,350		Reversed for Regulatory Accounts Statement purposes.
Accounting Value write down of Book Assets in 2005.	(4,613)		Value write down in the JEN FAR, however the RAB is not adjusted therefore the asset value for RIN purposes is higher (than the written down value in Statutory accounts) and so is the depreciation.
IS assets not in JEN FAR	(3,884)		IS assets that are not in JEN FAR have been manually depreciated outside the FAR and included in the RIN accounts
Income Tax		41,017	
Reversal of Income Tax	41,017		Reversed for Regulatory Accounts Statement purposes.
TOTAL "JEN" PER RIN Template 1 - Income Statement		136,462	

JEN RIN - (Section 1c)			
Details (\$000's)	Template 6a	Template 6b	Comments
Statutory Accounts	179,704	179,704	Source stat accounts (Notes 8 & 9)
Adjustments			
Customer Contributions	(10,159)	(10,159)	Stat accounts include customer contributions.
Insurance works	(265)	(265)	Insurance works are excluded for RAB purposes.
TOTAL PER RIN SCHEDULES	169,279	169,279	

### Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-4

JEN regulatory accounting principles and policies (2013)

Public



30 April 2014

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#### JEMENA ELECTRICITY NETWORKS (VIC) LTD

#### **REGULATORY ACCOUNTING PRINCIPLES AND POLICIES (2013)**

Jemena Electricity Networks (Vic) Ltd (**JEN**) prepares the Regulatory Accounting Statements consistently with the requirements listed in the RIN as issued by the AER under Division 4 and Part 3 of the National Electricity (Victoria) Law. As its underlying principle, JEN prepares its statutory accounts compliant with the Australian Accounting Standards and the Statement of Significant Accounting Policies in the notes to the accounts, and only varies from these Standards and Policies where specifically required or permitted by the RIN.

The source of all financial information for the regulatory financial statements is the JEN general ledger and its support systems. JEN also uses data from other related party entities which is contained in their general ledger and support systems.

Revenues and costs contained in the General Ledger that can be directly attributed are assigned to the respective categories. However, if the revenue or cost cannot be directly attributed, an allocator is applied on a causation basis. At all times, JEN will apply transparent and verifiable allocators.

JEN will provide full and complete cooperation with the external auditors. All information provided is intended to be sufficient to enable the auditors to verify accuracy and compliance with the requirements of the RIN.

### Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-5

JEN Capitalisation Policy (2013)

Confidential



30 April 2014

### Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-6

Cost allocation methodology (as approved by the AER, 18 February 2010)

Public



30 April 2014

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## Jemena Electricity Networks (Vic) Ltd

Cost allocation methodology

18 February 2010





#### **Contact Person**

Anton Murashev

Manager Asset Regulation & Strategy

Ph: (03) 8544 9036

Email anton.murashev@jemena.com

#### Jemena Electricity Networks (Vic) Ltd

ABN: 82 064 651 083

321 Ferntree Gully Road

Mt Waverley VIC 3149

Ph: (03) 8544 9000

Fax:(03) 8544 9888

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#### 1 Introduction

Jemena Electricity Networks (Vic) Ltd (**JEN**) is the owner of the electricity network covering the northwest area of Melbo urne metropolitan. JEN pr ovides services including (but not limited to) those listed in Table 1 -1 to over 30 0,000 customers. Table 1-1 groups the services by JEN's proposed classification of those se rvices under the Nation al Electricity Rules (**NER**). This classification may change, depending on the outcome of the 2011-15 distribution price review process being undertaken by the Australian Energy Regulator (**AER**).

Services	Descriptions
Standard Control Services	Construction of the distribution network
	Economic connection and augmentation works for new connections
	Maintenance and operation of the distribution network and connection assets
	Planning and designing the distribution network
	Emergency response
	Administrative support (e.g. network billing)
Alternative Control Services	Uneconomic connection and augmentation works for routine     new connections
	Metering data provider services for unmetered supplies with Type 7 metering installations
	Supply enhancement at customer request
	Emergency recoverable works (i.e. emergency works where customer is at fault)
	• Preparation of design and specification for 3 <sup>rd</sup> parties in relation to customer initiated works that are contestable
	<ul> <li>Auditing of design and contestable construction undertaken by 3<sup>rd</sup> parties</li> </ul>
	Energisation and de-energisation of supply points
	Temporary supply services
	Service truck visits & wasted truck attendance
	Location of underground cables
	Elective underground service where an existing overhead service exists
	Covering of low voltage mains for safety reasons
	Testing of metering installations
	Supply abolishment
	Fault response — not DNSP fault
	Damage to overhead service cables by third parties
	High load escorts — lifting overhead lines
	Operation, repair, replacement and mai ntenance of D NSP     public lighting assets
Negotiated Distribution Services	Uneconomic connection and augmentation works for non- routine new connections
	David of 00

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Services	Descriptions	
	Public lighting services - New public lighting	
	<ul> <li>Public lighting services – Alteration and relocation of public lighting assets</li> </ul>	

This document addresses the allocation of costs to the above mentioned services.

If the service classifications in the AER's final distribution determination differ from those outlined in this CAM, JEN will amend sections this CAM in accordance with clause 4.2(a) of the cost allocation guidelines.

#### 2 Organisational and operational structure

JEN is a 100 per cent owned subsidiary of Jemena Ltd (**JEM**). JEN is a wholly owned subsidiary of SPI (Australia) Assets Pty Ltd (**SPIAA**), which is in turn 100 per cent owned by Singapore Power International (**SPI**). Refer to Appendix 1 for the corporate structure of SPIAA's holdings, which include JEN and JEM.

While JEN owns the electricity network assets, Jemena Asset Management Pty Ltd (**JAM**) provides all maintenance and capital expenditure services through in-house and external resources whereas enterprise support services, such as Legal, Finance and Human Resources, are provided to JEN by JEM.

As such, the Senior Management group directing the JEN business entity resides within JEM, while the day to day operational management of network services is provided by JAM. JEM's operational structure, as it relates to JEN, is set out in App endix 2. App endix 3 al so provides a visual representation of the flow of distrib ution services and contributing services from JE N and its subcontractors through to customers.

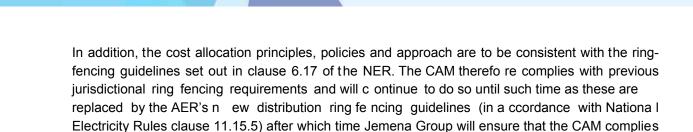
Apart from JEN, JAM also provides services to:

- other assets owned or part-owned by JEM or SPIAA, such as Jemena Gas Networks, ActewAGL and, in conjunction with Jemena Asset Management (6) Pty Ltd (JAM 6), United Energy Distribution Pty Ltd (UED) and Multinet Gas (DB No.1) Pty Ltd and Multinet Gas (DB No.2) Pty Ltd trading as Multinet Gas Distribution Partnership (MGH); and
- external clients, such as Aurora Energy, SP AusNet (SPN) and Powercor.

#### 3 Nature, scope and purpose

Sections 2.2 and 3.2 of the Victorian Cost Allocation Guidelines (**the Guidelines**) outline the requirements applicable to a Victo rian distribution network service provider (**DNSP**) in preparing and submitting its proposed cost allocation method (**CAM**) to the AER for approval, inc luding the development of detailed principles and policies for attributing costs to, or allocating costs between the categories of distribution services it provides.

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with the requirements of the final Ring-Fencing Guideline once it is published.

Clause 6.15.1 of the NER requires JEN to comply with the CAM approved by the AER for relevant regulatory reporting, as noted in section 5.1(b) of the Guidelines.

Accordingly, JEN has prepared the CAM, as detailed in this document, for the purposes of JEN regulatory cost allocations over the 2011-15 regulatory period (**the regulatory period**). The CAM has been developed with regard to previous cost allocations in accordance with the Vi ctorian Essential Services Commission (**ESC**) distribution pricing determination and as a consequence complies with those requirements and with the reporting requirements of Guideline 3. It is intended to provide an approach for allocating costs for regulatory reporting purposes.

JEN is aware that the G uideline requires that the CAM allow for the effect ive comparison of historical and forecast cost allocations between periods. However, JEN's electricity network was owned by AGL until O ctober 2006 and the organisational structure of the com pany has changed considerably as a result of the change of owner ship since then by Alinta Ltd and now SPIAA. Furthermore, JEN d oes not have a ccess to certain past data relating to the perio ds of prior ownership.

For these reasons, JEN is not able to apply an identical cost allocation methodology to that used in the years up to 2007, to the 2008 calendar year or future years and is not able to reproduce the costs for the years prior to 2008 in an identical manner to the proposed CAM.

However, despite the det ailed cost allocation methodologies being different, comparisons with prior, current and future periods are not materially impacted by these changes. The underlying approach that has been adopted in assigning direct costs based mainly on activity based costing, cost centre and general ledger account balances and the allocation of shared costs via the use of a causal based allocator, has remained substantially similar.

Accordingly, the CAM has been designed to achi eve consistency with the previous allocation methodology to the maxi mum extent practicable, and to all ow for comparison of historical and forecast cost allocation between the 2006-10 and the 2011-15 regulatory periods by:

- utilising present accounting processes and systems that support JEN's compliance with management and financial reporting requirements, and
- taking into account incremental enhancements to present systems, such as the recent implementation of time-writing.

Furthermore, JEN has developed the proposed CAM as the means to allocate costs going forward in a consistent manner that meets all other regulatory requirements to the maximum practicable extent.

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Applying the CAM will ensure that:

- costs are reported consistently in each year of the regulatory period;
- costs are attributed directly to or allocated between categories of distribution services based on the substance (over the legal form) of the underlying transaction or event; and
- direct costs are only allocated once to one category of distribution services and shared costs are only allocated once between categories of distribution services.

#### 4 Accountabilities and responsibilities

If approved by the AER, the CAM will commence on 1 January 2011. The CAM, once in place, is also expected to be used for all regulatory reporting purposes. It will primarily be used for annual Regulatory Accounts reporting and for determining the appropriate costs to support and substantiate future price submissions to the AER.

Jemena Group is committed to the ongoing application of the CAM which will be approved formally by the JEM Lead ership Team prior to implementation. Furthermore, a statement outlining JEM's commitment to the ongoi ng application of the CA M will be detailed in a Re gulatory Accounting Policy Statement, and maintained on the JEM website.

The CAM will be the primary responsibility of the General Manager, Finance, Infrastructure Investments, who will:

- conduct periodic reviews of the CAM;
- liaise with the CFO, Business Unit Managers, Finance Managers and their staff where issues are raised; and
- act as the reference point for all queries regarding the CAM in relation to Regulatory matters.

Any potential change to the CAM will be subjected to a materiality test. For purposes of determining materiality, JEN has adopted the AER's definition used in its Cost Allocation Guidelines – that is, "an item is material if its omission, misstatement or nondisclosure has the potential to prejudice the understanding of the financial position of the DNSP (Distribution Network Service Provider), gained by an assessment of financial information relating to the DNSP". The process by which JEN will monitor compliance with the CAM is outlined in section 8.

#### 5 Distribution services

JEN provides distribution services, including standard control services, prescribed metering services, alternative control services, negotiated services and other unregulated services as set out in Table 5-1. JEN allocates its costs between all these categories of services.

**Standard Control Services** (formerly prescribed services) include the p rovision of n etwork capability and mainte nance of the di stribution network. They cover services such as asset maintenance, vegetation control and restoration of supply. The se services are p rovided to all

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residential, small business and large business end-users of the network. The costs for providing these services are recovered via electricity tariffs that have been approved by the AER.

Alternative Control Services (formerly part of excluded services) include disconnections and reconnections for existing sites, metering services for unmetered supplies, operation, maintenance and repairs of public lighting assets, service truck visits, covering of low v oltage mains, meter equipment testing and m eter conversions, and el ective underground services. The costs of providing these services are recovered by either a set fee approved by the AER or via a quoted price.

**Negotiated Distribution Services** (formerly part of exclud ed services) include uneconomic connection and augmentation works for new connections, new public lighting and relocation of public lighting assets. The costs of providing these services are recovered by cost negotiation and agreement with the end-user.

**Prescribed Metering Services** include the provision of meter data services. The approval of charges for providing these services is covered by a process outside of Chapter 6 of the NER.

**Unregulated services** include metering services that are not regulated by the NER, as well as network-related services provided by JEN not covered by the other classifications.

Distribution service provided	Persons to whom services are provided
Standard control services	
Prescribed metering services	End-use electricity customers i.e. residential, small business and large business entities.
Alternative control services	business and large business challes.
Negotiated services	Services performed directly for customers.
Other unregulated services	

Table 5-1: Distribution services performed by JEN

Notes:

- Standard control, prescribed metering and alternative control services are un dertaken for en d-use electricity customers within the geographical boundaries of the net work. These users are thems elves customers of vario us electricity retailers. JEN therefore invoices relevant retailers for the vario us distribution services provided to these end-users.
- JEN deals directly with Councils for public lighting services. Negotiated services and other distribution services are performed for, and charged directly to, the particular customer.

#### 6 Cost allocation principles and policies

#### 6.1 Overview of Costing Processes in Jemena Group

As discussed in section 2, JEN, JAM and JEM are part of the Jemena Group, which also includes other assets. Relevant Jemena Group costing processes and how they relate to JEN's CAM are explained as follows.

JEM utilises the SAP Enterprise Resource Planning (**ERP**) corporate business system to capture, control and report its costs by general ledger cost account within cost centres. Most direct costs are

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assigned to unique client projects codes by assigning costs to Work Breakdown Structures (**WBS**) (individual job numbers) which in turn are grouped to individual activity codes that identify WBS projects of a similar nature (such as pole inspections for maintenance or pole replacements for capital works). These codes capture costs associated with individual projects that relate to specific client contracts and activity types required for management and regulatory reporting. These costs are captured within the SAP ERP project accounting ledger.

Shared (or indirect) costs are costed to general ledger accounts within cost centres, similar to direct costs. These shared costs do not relate to one particular activity but rather support a range of business activities.

#### 6.2 Directly attributable costs

Labour costs for work performed and other costs incurred (such as materials consumed) on capital construction jobs, maintenance jobs and certain types of o perational work, are all ocated to a unique project code linked to an activity code in SAP. The labour costs allocated to these unique project codes can be traced back to the organisational group that incurred these costs and the cost function that identifies the type of cost, such as labour and materials. In this way, SAP ERP project accounting effectively tracks each individual client project via unique client project codes. These project codes are used to capture direct costs associated with individual projects that relate to specific client contracts, client activity types and client billing types. These costs are t reated as 'direct' in nature. For any instance where a direct cost has not been assigned to a specific activity code that enables the nature of the service being provided to be clearly identified, the cost will be allocated as if it is a shared cost (see section 6.3 below).

Specifically, the SAP system enables JAM to capture and report project costs (i.e. direct costs) by WBS element. Each WBS element corresponds to an activity type, which relates to the nature of the works carried out of a ca pital, operating and maintenance nature. The activity type also identifies the type of service being provided and is therefore used to directly assign these costs to standard control, alternative control and negotiated distribution services.

Following the allocation of direct costs to activity codes, there re main unallocated regional direct costs, which represent a residual amount that has not been allocated to specific projects. Where costs can be identified as relating directly to specific regulatory cost categories (such as costs residing in a billing cost centre that relate to the network use of system billing), they are allocated to the particular type of service provided – standard control, alternative control, negotiated distribution services or unregulated services. Where these costs cannot be specifically assigned, they form part of the shared cost allocation process, as described in section 6.3.

Cost items, such as labour and materials, are allocated in the manner described below. Table 6.2 summarises what is included in each cost item and the basis for all ocation of the se costs. Specifically, the costs listed in this table a re directly allocated to standard control services, alternative control services, negotiated distribution services, prescribed metering services and unclassified services.

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SAP electronic timesheet processing commenced in December 2009 and is expected to be fully operational by March 2010. Under this approach *all* Jemena Group staff, will be required to capture their actual hours against a variety of cost objects (cost centre, profit centre, WBS or Program Maintenance order). These cost objects will range from existing unique chargeable client projects, indirect client contracts to other internal projects. Accordingly, labour based activity costs will be used wherever possible for reporting all directly attributable costs in the next regulatory period.

All materials issued to capital and maintenance jobs have an on-cost added to recovery the costs of operating the Logistics (stores) cost centre and the procurement function for JEN. This process was put in place to en sure that these costs were correctly assigned to the jobs that were use s of this service. This on-cost amount is included in the WBS and activities (refer above) for all capital and maintenance jobs as a component of the total cost of that work and therefore is an automated process within SAP. After assigning the cost to each job, a credit equivalent to the amount of the on-cost on the material item issued from the store is offset ag ainst the operating costs of the Logistics cost centre to e nsure that the costs of operating the Logistics cost centre and JEN procurement function is only allocated once. As the on-cost rate is generally fixed for the year, there may be an over or under recovery of the costs of running the Logistics cost centre and JEN procurement function, depending on the total amount of store operating and procurement costs to be allocated and the amount of materials consumed each year. Any over (cre dit) or under (debit) cost recovery is retained within the Logistics cost centre and will form part of the shared costs to be distributed as outlined in section 6.3 below. This process is illustrated in the foll owing example in relation to one item of materials worth \$1000 (before applying the on-cost):

Value of Materials Issued from Store	On cost rate	Total cost of materials costed to the job	Credit to Inventory	Credit to Logistics cost centre	Logistics Cost centre and Procurement function for JEN	Comment
\$1000	8%	\$1080	\$1000	\$80	\$400,000 (\$80) \$399,920	Total annual cost of operating Logistics and JEN related procurement functions. Less on-cost recovery Total remaining amount of the annual operating cost of the Logistics Cost Centre and JEN procurement functions to be recovered from future material issues from the store.

Reports utilising data from SAP which show the costs of the Logistic cs store and the JEN procurement function as well as the amount of the on-cost credited to the Logistics cost centre, will enable the cost allocation process and its outputs above to be verified.

Costs reported under certain general ledger accounts are also assigned directly to specific cost categories (for example Guaranteed Service Levels costs have their own General Ledger account). Costs in these accounts are a ble to be a ssigned to stan dard control, alternative control and negotiated distribution services using the definitions contained in the ESC's Guideline 3.

The activity codes are also used to appropriately assign costs to stan dard control, alternative control, negotiated distribution and other unregulated services, as each of these activity codes are uniquely and individually identified to the different service categories. For example, the activity

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codes allow costs to be identified that relate to pole inspections, vegetation control, overhead line maintenance, fault and emergency (all of which relate to standard control services), public lighting (alternative control service), connection of embedded generation (negotiated service) and meter data services (unregulated services).

Directly attributable costs are shown in Table 6-1: Directly Attributable Costs below:

Cost Location	Cost Item	Cost Relationship	Allocator	Description	Basis of Allocation	Services Allocated To
JAM	Direct Labour Costs	Direct	N/A	Direct labour costs include: 'Normal and overtime salaries and wages, associated payroll on-costs and employee & industry allowances and the recovery of motor vehicle and plant costs	Field crews complete timesheets that record their actual hours worked on individual projects. These timesheets are usually entered into SAP by local Business Service Officers. A minority of field based personnel, and all office based personnel, enter their timesheet data directly into SAP. SAP functionality then enables an automatically generated direct labour cost transfer posting from the employee's cost centre to the relevant project.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM	Subcontra ctor Costs	Direct	N/A	External labour contractors may be sourced to supplement the existing workforce for specific projects, additional workloads or to cover employee absences.	Subcontractor costs are receipted against the outstanding purchase order and recognised against the project.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM	Material Costs	Direct	N/A	Material costs include stock items distributed through JEM's centralised warehouse and specific purchases of irregular or low turnover items. An on- cost is added to stock material to cover the cost of purchasing, warehousing and delivery of materials held in the central store.	Material costs are assigned via the SAP materials management system. This system enables materials from stores to be issued to individual capital and maintenance projects. Materials can also be purchased from an external party, via a SAP purchase order process. When the goods are receipted against the outstanding purchase order, the material costs are recognised against the relevant project.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEN	Other Direct Costs	Direct	N/A	Other costs include such items as High Voltage injection payments, distribution licence fees and other governmental charges such as council rates.	Other costs are posted to the relevant project via the accounts payable function or directly to a cost category where appropriate by reference to the cost centre or general ledger account.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated

#### Table 6-1: Directly Attributable Costs

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#### 6.3 Shared costs

In addition to direct costs, JEN and its service providers also incur shared costs. These costs do not directly relate to the delivery of specific categories of JEN's services, but do relate indirectly to all services provided by JEN. These costs therefore need to be assigned to service categories via the use of an allocator.

#### 6.3.1 Shared cost summary

A summary of JEN's shared costs is provided in Table 6-2 below

Cost Location	Cost Item	Cost Relationship	Description	Services Allocated To
JEM ESF	Chief Executive Officer	Shared - Causal	Management of regulated asset base, equity investments in regulated assets and asset management functions.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Chief Financial Officer	Shared - Causal	Management of financial reporting & financial management, and funds management	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Corporate Accounting	Shared - Causal	External corporate reporting of the Jemena group of companies	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Energy Investments	Shared - Causal	Strategic and operational management of regulated assets.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Financial Strategy	Shared - Causal	Management of corporate business systems	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Financial Accounting	Shared - Causal	Management of Financial Accounting	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Investment Analysis	Shared - Causal	Strategic financial management of assets and potential corporate acquisitions	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Legal	Shared - Causal	Regulatory, employer and contract management; company secretarial	Standard Control Prescribed Metering Alternate Control Negotiated

#### Table 6-2: JEN Assignment of allocators to cost items

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Cost Location	Cost Item	Cost Relationship	Description	Services Allocated To
				Other Unregulated
JEM ESF	Business Services	Shared - Causal	Customer service and marketing functions	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Corporate Affairs	Shared - Causal	Management of corporate communications to employees and clients	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Health Safety & Environment (HSE)	Shared - Causal	Employee HSE training and monitoring	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Human Resources	Shared - Causal	Management of recruitment and payroll services	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Financial Improvement	Shared - Causal	Management of Jemena corporate business structure	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Information Services	Shared - Causal	Provision & management of IT infrastructure and services both general and client specific.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Regulatory	Shared - Causal	Strategic and operational regulatory compliance	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Risk & Insurance	Shared - Causal	Internal audit and risk assessment.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JEM ESF	Taxation	Shared - Causal	Management of indirect and direct tax compliance and planning.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated

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Cost Location	Cost Item	Cost Relationship	Description	Services Allocated To
JEM ESF	Treasury	Shared - Causal	Management of cash flow and funding arrangements	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Asset Services	Shared - Causal	Asset Strategy and Engineering Services	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Chief Operating Officer	Shared - Causal	Management of Asset Strategy and Infrastructure Services functions.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Regional	Shared - Causal		Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Finance	Shared - Causal	Management of financial reporting & financial management	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Business Strategy	Shared - Causal	Management of Business & Commercial Strategy and Planning function.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Business Services & IT	Shared - Causal	Management and service delivery of customer relations management, call centre management and meter reading services functions.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Regulatory	Shared - Causal	Strategic and operational regulatory compliance	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated
JAM Corporate	Program Management	Shared - Causal	Management of program methodology and project office functions.	Standard Control Prescribed Metering Alternate Control Negotiated Other Unregulated

#### 6.3.2 Shared costs allocation

The shared costs applicable to JEN are allo cated to standard control, alternative control, negotiated distribution services and unregulated services based on the proportion of direct costs for each service category to total direct costs.

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This allocator is based on the view that direct costs are the most appropriate method to allocate shared costs across service categories and provide an easily verifiable method that can be consistently applied each year. They also enable the amount of shared costs allocated to each service category to be rep licated by reference to the percentage of direct costs relating to each service category (as reported in the regulatory accounts) and then applied to the total amount of shared costs.

To illustrate this, assume that the total operating and maintenance costs of JEN are \$80 m consisting of \$50m direct costs and \$30m shared (indirect) costs. Of the \$50m direct costs, assume that \$40m relates to SCS (or 80% of total direct costs), \$7m to ACS (14% of total direct costs), \$1m to NDS (2% of total direct costs) and \$2m to unregulated services (4% of total direct costs). The actual direct costs would be determined via the process de scribed in section 6.2 above. Th e allocation of the \$30m of share d costs to the various service categories will be made by allocating 80% of \$30m which is \$24m to SCS, 14% of \$30m which is \$4.2m to ACS and so on for the other service categories. Table 6-3 below shows the relevant calculations for the example.

	Total	Service Category			
		SCS	ACS	NDS	Unregulated
\$ Direct costs	50M	40M	7M	1M	2M
% of Direct Costs:	100%	80%	14%	2%	4%
\$ Shared Costs	30M	24M	4.2M	0.6M	1.2M
\$ Total costs	80M	64M	11.2M	1.6M	3.2M

Table 6-3: Shared cost allocation calculation example

Note that during the roll-o ut phase of the AMI pr ogram, all AMI-related costs are outsourced and are being captured and reported separately from all other costs incurred by JEN. Under the AER's classification, AMI metering services are considered to be unregulated services for the 2011-2015 regulatory period. During the commencement of the operational phase of AMI metering services, JAM will establish accounting processes to capture direct costs within a separate cost category for JEN.

#### 7 Record maintenance

All relevant documentation, namely the final approved Regulatory Accounts, the supporting audit opinions and other ap provals (such as the Audit Tripartite Deed), together with all the records supporting the allocation of costs (direct or shared) are maintained on Jemena Group's accounting systems and Information System database.

These records are supported by the company's comprehensive record protection procedures and practices, as well as relevant data recovery and back up processes.

Information contained in this database is provided to auditors upon request to enable audits of the Regulatory Accounts and other documents to take place as necessary.

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#### 8 Compliance monitoring

#### 8.1 Day to Day Use of the CAM

The CAM utilises the activity code data derived from the timewriting process and the charging of costs to jobs that are lin ked to the se activity codes. Some direct costs assigned to the service categories in the CAM are based on costs reported in the SAP general ledger by cost centre and general ledger account. The quality of this data, which is also used extensively in management reporting and is an integral part of the SAP finan cial data used for the preparation of statutory accounts, is constantly monitored by management and a ccounting staff as part of the regular r business reporting and financial analysis processes in Jemena Group. Both external and internal audits are conducted on the processes used to produce the costs and any material discrepancies or abnormalities are reported to management for rectification. Follow up procedures apply to ensure appropriate action is undertaken within agreed timeframes.

Note that the operational management by JAM of day to day JEN network services, reflected in the costs reported in these activity codes, is embedded in an asset management agreement between JEN and JAM.

#### 8.2 Use of the CAM in Regulatory Reporting

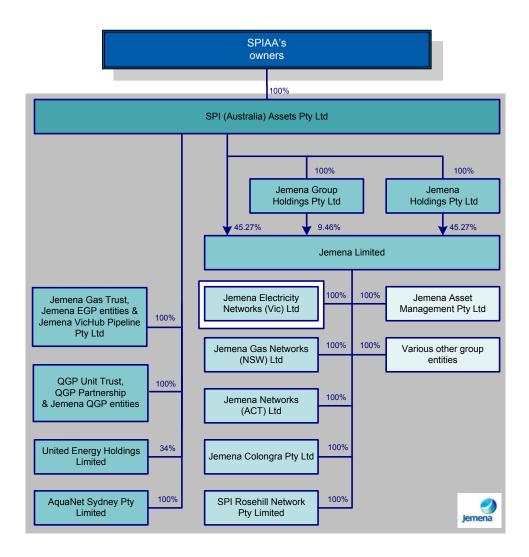
Regulatory Accounts are reviewed a nd endorsed by JEN management, and include an explicit statement (having made all the relevant inquiries) that the financial statements have been prepared in accordance with the approved CAM. In addition, the accounts will also be reviewed by independent auditors.

Through the management review and the audit processes, JEN will satisfy itself whether the costs have been correctly assigned to the service categories. In addition, both JEM and JAM are also required to provide JEN with all reasonable assistance and cooperation to enable JEN to provide information required to be given to the AER, including the allocation or designation of any fees, charges, costs or other amounts in a manner which reflects any methodology approved by the AER.

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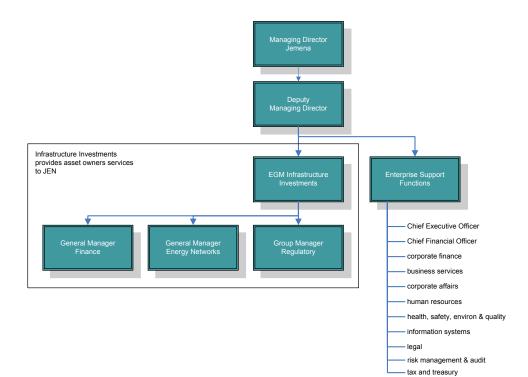
#### Appendix 1 – SPIAA's Corporate Holdings



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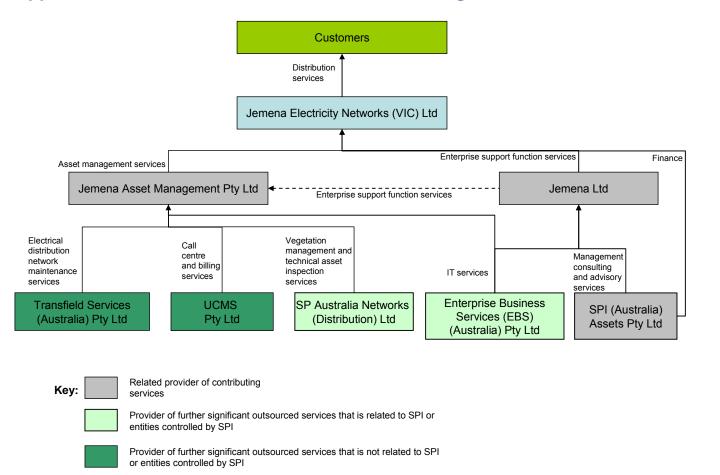


### Appendix 2 – Operational Structure of Jemena Limited



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#### Appendix 3 – Flow of Distribution and Contributing Services for JEN and its subcontractors



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Appendix 1-6 Cost allocation methodology (2010).doc

### Glossary

CAM	Cost Allocation Methodology
CC's	Cost Centres
Contract	Service and/or construction contract with Assets or external clients.
Customers	Electricity retailers and/or end customers of electricity.
EBS	Enterprise Business Services (Australia) Pty Ltd.
ERP	Enterprise Resource Planning
ESF	Enterprise Service Functions (include but are not limited to functions such as Finance, Audit, Risk, Legal and IT functions) provided by JEM or EBS
JAM	Jemena Asset Management Pty Ltd, the asset and infrastructure management company that provides various services to Assets (including JEN) and external clients.
JAM 6	Jemena Asset Management (6) Pty Ltd
JEM	Jemena Ltd, holding company of JEN and JAM.
Jemena Group	Refers jointly to SPIAA, JEM, JAM and all Assets
JEN	Jemena Electricity Networks (Vic) Ltd, owner of the electricity network covering the northwest area of Melbourne metropolitan. JEN is a client of JAM
JGN	Jemena Gas Networks (NSW) Ltd. JGN is a client of JAM
MGH	Multinet Gas (DB No.1) Pty Ltd and Multinet Gas (DB No.2 Pty Ltd trading as Multinet Gas Distribution Partnership, owner of the gas network servicing Melbourne's inner, outer eastern and south eastern suburbs. In conjunction with JAM 6, JAM provides services to MGH.
NER	National Electricity Rules
SPI	Singapore Power International Pte Ltd, holding company of SPI (Australia) Assets Pty Ltd.
SPIAA	SPI (Australia) Assets Pty Ltd, holding company of JEM
WBS	Work Breakdown Structures

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# Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-7

Special purpose financial report

Confidential



29 April 2014

# Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-8

PB: Audit report (for non-financial information)

Public



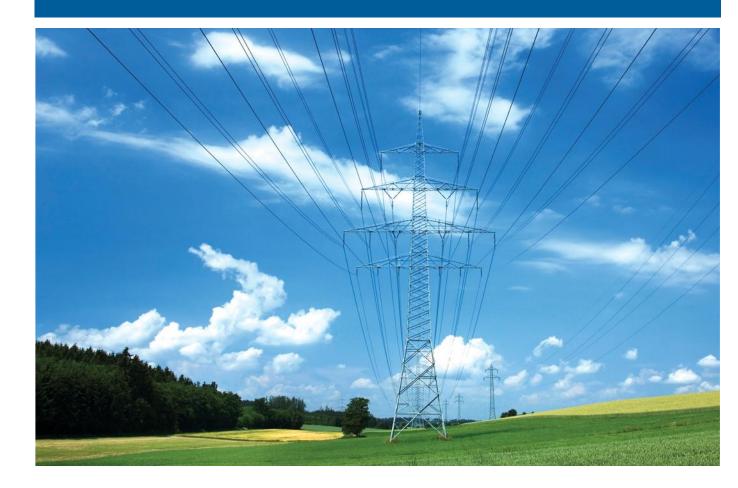
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Jemena Electricity Networks Pty Ltd

## Audit of Jemena's 2013 Regulatory Information Notice - Non-financial information

24 March 2014





#### **Document information**

Client: Jemena Electricity Networks Pty Ltd Title: Audit of Jemena's 2013 Regulatory Information Notice - Non-financial information Document No: 2265005A-DMS-RPT-001 RevB Date: 24 March 2014

Rev	Date	Details
А	03/03/2014	Draft
В	24/03/2014	Final

Author, Reviewer and Approver details					
Prepared by:	A Tipping	Date: 20/03/2014			
Reviewed by:	P Walshe	Date: 24/03/2014			
Approved by:	P Walshe	Date: 24/03/2014	Signature:	Pele 4 U.S.L	

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#### **Document owner**

Parsons Brinckerhoff Australia Pty Limited

ABN 80 078 004 798

Level 15 28 Freshwater Place Southbank VIC 3006 Tel: +61 3 9861 1111 Fax: +61 3 9861 1144 Email: melbourne@pb.com.au www.pbworld.com

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# Auditor's Statement

Parsons Brinckerhoff audited the RIN information prepared by Jemena Electricity Networks Pty Ltd (JEN) for the Australian Energy Regulator for the period 1 January 2013 to 31 December 2013 in respect of the Service Target Performance Incentive Scheme (STPIS).

Parsons Brinckerhoff meets the requirements of "Class of person to conduct the audit" as outlined in Appendix E, paragraph 2.1 of the Regulatory Information Notice (RIN).

This audit report has been prepared in accordance with the audit requirements outlined in Appendix E of the RIN. The auditor's responsibility is to make an assessment of the processes, procedures and systems employed by JEN to produce the information required. Accordingly, Parsons Brinckerhoff has assigned a compliance grade to each parameter relating to the STPIS.

The audit grades are summarised in Table 1.1 below.

The audit involved performing procedures to obtain audit evidence about the information and disclosures in the RIN. The procedures used depended on the auditor's judgment, including the assessment of the risks of material misstatement at the disclosure level, whether due to fraud or error. In making the risk assessments, the auditor considered internal controls, system controls relating to the preparation and fair presentation of the estimates and disclosures made in the RIN in order to design audit procedures that are appropriate in the circumstances.

Yours sincerely

Peler & USA

Peter Walshe Principal Consultant Parsons Brinckerhoff Australia Pty Limited

In preparing this report, Parsons Brinckerhoff has relied upon documents, data, reports and other information provided by third parties including, but not exclusively, jurisdictional regulators as referred to in the report. Except as otherwise stated in the report, Parsons Brinckerhoff has not verified the accuracy or completeness of the information. To the extent that the statements, opinions, facts, information, conclusions and/or recommendations in this report are based in whole or part on the information, those conclusions are contingent upon the accuracy and completeness of the information provided. Parsons Brinckerhoff will not be liable in relation to incorrect conclusions should any information be incorrect or have been concealed, withheld, misrepresented or otherwise not fully disclosed to Parsons Brinckerhoff. The assessment and conclusions are indicative of the situation at the time of preparing the report. Within the limitations imposed by the scope of services and the assessment of the data, the preparation of this report has been undertaken and performed in a professional manner, in accordance with generally accepted practices and using a degree of skill and care ordinarily exercised by reputable consultants under similar circumstances. No other warranty, expressed or implied, is made.

Item	Compliance Grade
STPIS – reliability parameters	
Customer numbers	Compliant
Unplanned SAIDI	Compliant
Unplanned SAIFI	Compliant
Unplanned MAIFI	Compliant
Planned Outages	
<ul> <li>SAIDI</li> </ul>	Compliant
■ SAIFI	Compliant
MED threshold	Compliant
Exclusions	Compliant
STPIS – customer service parameters	
Telephone answering Compliant	
New connections	Compliant
Street light repair	Compliant
GSLs (jurisdictional scheme)	
<ul> <li>Appointments (ex AMI)</li> </ul>	Compliant
<ul> <li>Appointments (AMI only)</li> </ul>	Compliant
<ul> <li>Duration</li> </ul>	Compliant
<ul> <li>Sustained interruptions</li> </ul>	Compliant
<ul> <li>Momentary interruptions</li> </ul>	Compliant
<ul> <li>Street lights</li> </ul>	Compliant
<ul> <li>Planned interruptions</li> </ul>	Compliant

 Table 1.1
 Audit grades - Jemena's 2013 Regulatory Information Notice - Non-financial information

Source: Parsons Brinckerhoff findings

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# 1. Introduction

This section of the report provides background on the need for the work, describes the audit and review approach undertaken by Parsons Brinckerhoff and sets out the report structure.

# 1.1 Background

The Australian Energy Regulator (AER) has issued a Regulatory Information Notice (RIN) under Division 4 of Part 3 of the National Electricity (Victoria) Law to Jemena Electricity Networks Pty Ltd (JEN) on 5 June 2011. This notice requires JEN to provide and to prepare and maintain information in a manner and form specified in the Notice. The requirements which must be complied with and the information which must be provided by JEN to the AER (in respect of Victorian electricity distribution services) are for the purpose of:

- monitoring the compliance of JEN with the 2011-15 distribution determination
- publishing reports
- making future distribution determinations.

# 1.2 Scope of work

JEN engaged Parsons Brinckerhoff to undertake a compliance audit of the non-financial information provided by JEN to the AER for the period 1 January 2013 to 31 December 2013.

The information audited was:

 regulatory templates 1a, 1b, 1c, 1d and 1e in respect of the Service Target Performance Incentive Scheme (STPIS)

This report does not include the audit of:

- regulatory template 2 in respect of demand forecasts
- regulatory template 3 in respect of asset installation.

## 1.3 Persons conducting the audit

Appendix E of the RIN sets out requirements for the class of person to conduct the audit. Parsons Brinckerhoff's attests that it meets these requirements, specifically:

- Parsons Brinckerhoff is independent from JEN and all of its related bodies corporate.
- A trained lead auditor managed the audit process and is responsible for the audit.

- Members of the audit team have audit experience gained through conducting performance audits of electricity businesses, including data sampling in the electricity industry.
- Members of the audit team have the relevant technical knowledge of the areas audited and the associated engineering, IT systems, asset management and customer service aspects. They also understand the procedures and methodologies underlying the data and the AER's relevant definitions for all information.

# 1.4 Overview of audit methodology

The auditor's audit approach was conducted in compliance with the audit requirements outlined in Appendix E of the RIN. The audit approach reflects a reasonable or positive level of assurance.

Audited items were assessed for their reliability as determined from the review of the processes, procedures and systems used to generate the data. The audit of the STPIS data also extended to whether the processes, systems and procedures used to produce the data were reliable, correctly applied, consistent with the parameter definitions and exclusions of the STPIS, and whether systems were able to competently identify and correct errors.

This audit focused on two specific areas: firstly, identifying and assessing any changes to the systems and procedures that have occurred since those audited for the 2012 calendar year; and secondly, assessing the systems and procedures that have been put in place to ensure quality control and data verification have been undertaken.

The audit methodology involved the following steps:

- Develop audit procedures
- Review existing material
- On-site review
- Draft report
- Final report.

This is the third time Parsons Brinckerhoff has undertaken the audit of JEN's RIN. ASAE 3000 allows the auditor to rely on the results of previous audit findings and focus on changes that occurred between audit periods. Clauses 3.2(b)(v) and 3.2(b)(vi) in Appendix E of the RIN require the auditor to assess for changes since the last audit was conducted and if the data correlates to the previous audit. To comply with these requirements, Parsons Brinckerhoff was able to rely on the previous audit and focus on assessing any changes to the systems and procedures.

# 1.5 Audit grades

The grading system used to assess the information provided was designed to align to the assessment criteria specified in Appendix E of the RIN and requirements of ASAE 3000. The grading system assesses each input to the RIN against six criteria using a three part scale – green, orange and red. The criteria and scale are described in Table 1.1 and Table 1.2. The assessments of each of the criteria are then considered together to apply an overall compliance grade to the data input. The four possible compliance grades are described in Table 1.3. The final result for each item assessed will be a 'sum' of the 6 criteria based on the following guidelines:

If only 'green' is assigned, then the item will be compliant.

- If there is one or more 'orange' assigned, a judgment will be made on the overall materiality of any
  errors introduced by the identified gaps to determine if the item is mostly-compliant or non-compliant.
  Reasons will be provided for the judgement.
- If there is one or more 'red' assigned, then the result will be non-compliant. Reasons will be provided for the judgement.

The auditor notes that an assessment of the accuracy of the information presented in the RIN was not required to be assessed under the Appendix E of the RIN issued by the AER for JEN.

Criteria	Description
1	Reliability: Reliable systems have been established to provide, prepare and maintain the information.
2	Documentation: The processes and procedures are complete, well documented, approved, subject to regular review, and are accessible by staff.
3	Understanding: Staff have a good understanding of the processes, systems and procedures and applied them correctly during the audit period.
4	Definitions: The correct parameter and calculation definitions, as defined by the AER, were applied.
5	Error correction: The systems and procedures used are able to competently identify and correct errors or unusual trends that suggest errors in information entry or manipulation.
6	Repeatability: The systems provide information that corresponds to previously provided information.

Table 1.1 Reliability assessment levels and descriptions

Source: Parsons Brinckerhoff

#### Table 1.2 Reliability assessment levels and descriptions

Grade	Description
•	Criteria is met
•	Criteria is not met but the gaps have an immaterial effect
	Criteria is not met and the gaps result in material error(s)

Source: Parsons Brinckerhoff

Table 1.3 0	Compliance assessment levels and descriptions
-------------	-----------------------------------------------

Grade	Description
Compliant	All definitions are consistent with the requirements. Systems, processes and procedures have been implemented for all aspect of data gathering and reporting.
Mostly- Compliant	Most definitions are consistent with the requirements. Those definitions that are not consistent have an immaterial impact on the reported information. Systems, processes and procedures have been implemented for most aspect of data gathering and reporting. Those aspects that are not cover by systems, processes or procedures have an immaterial impact on the reported information.
Non- Compliant	Not all definitions are consistent with the requirements. Systems, processes and procedures have not been implemented for data gathering and reporting.
N/A	There are no definitions that need to be complied with for this particular process.

Source: Parsons Brinckerhoff

# 1.6 Report structure

This audit report is structured as follows:

- Section 2 STPIS reliability parameters
- Section 3 STPIS customer service parameters



# 2. STPIS – reliability parameters

This section outlines the auditor's assessment of the reliability of JEN's system, processes and procedures used to report the STPIS RIN figures in relation to reliability of supply (Templates 1a, 1c, and 1d of the RIN) and exclusions (Template 1e of the RIN).

# 2.1 Summary of audit requirement

Section 3.2 of Appendix E of the RIN sets out the audit requirements. The focus of the audit is on the reliability of the processes and procedures used, and the systems applied, to provide, prepare and maintain the information required by RIN templates 1a, 1c, 1d and 1e.

The auditor is to assess whether the processes, procedures and systems were correctly used and applied by the relevant staff, and that the definitions and data exclusions were in accordance with the STPIS.

Further, the auditor must assess whether the systems used are able to competently identify and correct errors, and if the RIN templates being audited show any corrections.

In relation to exclusions, the audit requirement involves an assessment of the reasons for any exclusions and the measurement of those exclusions.

# 2.2 Overview of JEN's reliability of supply reporting systems

#### 2.2.1 Outage data management systems

Outages on the electricity network are recorded using a suite of data bases, with inputs from the network model and operators mostly in real time. A flow diagram of JEN's data collection, recording and reporting process is outlined in Figure 2-1.

The key systems are described below.

The Outage Management System (**OMS**) was implemented in June 2010. It records switching data directly from SCADA and receives data from non-telemetered devices from operators changing status of switches. Customer numbers are built into OMS via the Network Model. Complex switching records can be cancelled and recreated (if corrections are required) and logs of all corrections are retained.

The Operation Instruction Writer (**OIW**) is used by operators to develop switching procedures and record actual open/close times for non-telemetered devices when dealing with field crews. Actual open and close times are manually recorded on an OIW form for each isolation or restoration of customers.

**COGNOS** is a front-end reporting tool/application used to extract data from OMS, using prewritten filters/scripts to produce defined report formats, and output the data into various formats including PDF, Excel and text files. COGNOS is not a database and therefore does not store data.

**CMOS** is the database that stores information extracted from OMS by COGNOS. The data is stored in an Access data base and can be modified by JEN staff.

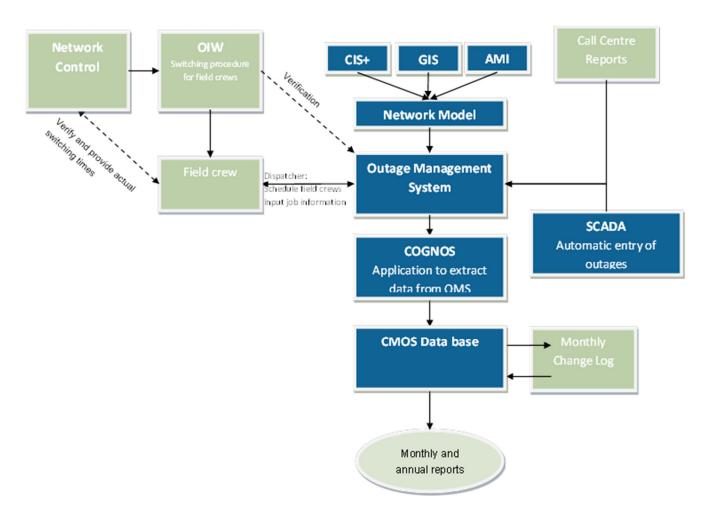
The Supervisory Control and Data Acquisition (**SCADA**) system inputs operations of all telemetered equipment directly into OMS. Each open/close signal input by SCADA is time stamped.

The **Network Model** shows the configuration of the network, which is updated daily, and allows OMS to calculate the number of customers affected by each outage. Customer information is input into the network model by three systems: GIS, CIS+ and AMI.

The **Daily Situation Report** is a report produced daily that includes the output of the OIW which identifies any manual switching events and the actual times that the switching occurred.

The **Monthly Change Log** captures any changes to data in CMOS. It is reviewed for anomalies and for verification against the Daily Situation Reports.

**GIS, SAP** and **CIS+** are the sources of customer number data, including customer geographical locations and network connection points that is input into the Network Model and used by OMS to calculate the number of customers affected by each outage. SAP is the database of customers having smart meters installed as part of the Advanced Metering Infrastructure program.



#### Figure 2-1 Flow diagram of JEN's reliability data reporting systems

#### 2.2.2 Definition of feeder categories

The STPIS classifies feeders as CBD, Urban, Rural Short or Rural Long. JEN's network contains only Urban and Rural Short type feeders. These are classified in accordance with the STPIS definitions, viz:

- CBD supplies predominantly high rise commercial buildings, supplied by a predominantly underground distribution network containing significant interconnection and redundancy compare to urban areas
- Urban not a CBD feeder, with actual maximum demand over the reporting period per total feeder route length greater than 0.3 MVA/km
- Rural short not a CBD or Urban feeder with a total feeder route length less than 200km
- Rural long not a CBD or Urban feeder with a total feeder route length greater than 200km

JEN assesses the feeders annually at the start of each year for the previous year, i.e. January 2014 data is used to classify the feeders for the 2013 calendar year. The feeder length is taken from GIS and the maximum feeder demand is obtained from the Network Planning and Development Group.

The following processes are implemented for specific feeders:

 Feeders that have capacity reserved for backup supply or other reasons are assigned a classification as though the reserve capacity was being utilised. That is, they are classified the same as the primary feeder.

- New feeders are assigned a classification based on the forecast load density.
- There are four feeders shared with Powercor:
  - > SA2 is rural short based on max demand/length in the JEN network area
  - SA12 is urban based on max demand/length in the JEN network area
  - SA6 and SA10 are both urban based on the classification of feeders in the surrounding area, as the demand or length in the JEN area is too small to correctly classify these feeders.

A copy of the report is retained so the system configuration can be compared in subsequent years.

Detailed attention is given to feeders which are close to the boundary conditions.

#### 2.2.3 Customer numbers

Customer numbers are held in the Network Model which is updated daily from three information sources: GIS, CIS+ and SAP. There are only 83 high voltage customers, and they are managed and reported by the Stakeholder Relations group. The definition of a customer used by JEN is consistent with the STPIS definition, being defined as a premise having an assigned National Metering Identifier (NMI).

The customer numbers used for the calculation of STPIS metrics are updated at the start of each month and used for the purpose of daily and monthly internal reporting for that month. Consistent with the RIN definitions, the total customer number used for reporting annual reliability measures is the simple average of the customer numbers at the beginning and end of the reporting period.

Non metered supplies which are included in the Network Model are included in the count of the number of customers interrupted by an outage, but street lighting is not included.

Low voltage customers with a smart meter installed as part of the Advanced Metering Infrastructure (AMI) project are captured in SAP and are reported by running a query through COGNOS. All other low voltage customers are captured in the CIS+ system and are reported by extracting the data from CIS+ into an Excel spread sheet.

The Urban/Rural split utilised for RIN reporting is based on the number of customers in the Network Feeder Model. The proportional split of customers is applied to the numbers extracted from the billing system.

The customer numbers from CIS+, AMI and Stakeholder Relations are manually entered into the reporting spread sheet.

The process is captured in the procedure *JEN AER Customer Numbers Procedure JEN PR 0017*. This procedure was applied for the 2013 RIN data.

#### 2.2.4 Unplanned outages

Two systems capture unplanned outage information. These systems cover telemetered and non-telemetered devices.

All telemetered devices (which include substation circuit breakers and remote controllable switches) are connected to OMS via SCADA and the opening and closing of the devices are recorded automatically with a date and time stamp. The number of customers affected is calculated by OMS based on the customers attached downstream from the opened switch as described in the network model. The start time of an outage associated with a telemetered device is taken as the timestamp associated with the opening of that device.

For non-telemetered devices, the start time of an outage is recorded as the time of the first customer call reporting an interruption to supply.

The end time of the outage is taken as the time of closing the HV or LV switching device that restores supply, as reported by the field crew undertaking the switching activity. This includes staged restorations where the actual number of customers to which supply is restored is recorded at each stage.

Network operators record restoration times on the OIW form immediately when receiving calls from field crews. There can be a time delay before the Network Controllers are able to update the network model with the actual status of the switches. During the end of month validation process, the switching time that is automatically recorded in OMS is checked against the OIW logs and updated if required.

Single phase losses are given the following treatment:

- HV single phase loss causes outage to 67% of load (phase to phase connections)
- LV single phase loss causes outage to 33% of load (phase to neutral connections)
- Interruptions to a single premise are included in the calculation of SAIDI and SAIFI
- Temporary changes to system normal configurations are taken into account when determining the number of customers interrupted through updating the Network Model.

At the end of each month, the data in OMS is exported to CMOS where it is subject to a verification and data cleansing process. Minor issues are only corrected in the CMOS database but major issues are resolved by the network controller in the OMS

- outages are checked to ensure staged restorations are counted as one fault, rather than multiple outages
- feeder ACR operations are checked against the OMS 59 report, OIW and network controller logs
- all outages with durations less than 30 minutes or greater than 600 minutes (potential outliers) are checked to ensure they are correct and not due to manual transcription or other errors
- due to the delay between receiving a switching confirmation and updating the network model, actual switching times are verified against OIW and the controllers log book
- OMS has a time discrimination limitation in recognising when two switches operate close together,
   i.e. an ACR and its upstream CB. This is adjusted once data is in CMOS.

The number of customers interrupted is identified by OMS through the Network Model. This includes temporary load transfers and disconnections.

The verification process is captured in the procedure *JEN AER Network Reliability Reporting Procedure, JEN PR 0502*. This procedure was applied for the 2013 RIN data.

#### 2.2.5 Planned outages

Planned outages are requested via the Works Scheduling System WSS. The control centre planner drafts a switching instruction. On the day of the planned interruption, the controller directs the field crew who undertake the switching activity. The times of the interruption are recorded in the control room. The controller then records the switching times in OMS.

#### 2.2.6 Cause codes for outage data

When an event occurs on the network, OMS requires a cause code to be entered. The details of the event are entered into OMS by the Network Controller as the event is being rectified.

During the 2013 audit period, JEN used cause codes that had been developed internally to provide sufficient information for reliability strategy planning. However, the AER has specified that different cause codes are to be reported as part of the RIN.

JEN undertook a review process:

- to confirm cause codes that were reported
- assess the causes for events which did not have a cause code and allocate an appropriate code
- map the internal cause codes to the AER cause codes.

Cause codes were included in the monthly data verification and cleansing processes and were verified again at the end of year when assembling the RIN data.

The cause code capture, mapping and verification process is captured in the procedure *JEN AER Network Reliability Reporting Procedure, JEN PR 0502.* This procedure was applied for the 2013 RIN data.

#### 2.2.7 Extracting data for calculating reliability measures

The COGNOS application extracts data from the OMS database according to predefined filters. The extracted data is imported to the CMOS Access database and a report is run monthly for internal reporting and annually for RIN reporting.

Prior to running the annual report, a data cleansing process is undertaken aimed at improving data accuracy. The data is verified and cleansed to correct anomalies or known errors, such as time stamps for manual switch changes where a more accurate time is stored in another location, such as the OIW.

A change log is run monthly to capture all changes to the CMOS data made as part of the cleansing and verifying process

To define the number of customers in each feeder category, the proportion of customers allocated to Rural Short and Urban feeder types in the Network Model is applied to the more accurate total customer numbers extracted from the billing information systems.

The process used for data extraction from OMS and verification of the extracted data in Excel and again in an Access database are described in the procedure *JEN AER Network Reliability Reporting Procedure, JEN PR 0502.* This procedure was applied for the 2013 RIN data. This procedure also describes the process used to fill in Templates 1a and 1c.

#### 2.2.8 Definition of reliability measures

JEN reports on the three reliability measures using the AER definitions as defined below:

System Average Interruption Duration Index (SAIDI):

 $\frac{\sum_{1 Jan \ 2013}^{31 \ Dec \ 2013} Actual \ affected \ customer \ numbers}{Simple \ average \ of \ annual \ customer \ numbers} \times Acutal \ interuption \ duration$ 

System Average Interruption Frequency Index (SAIFI):

 $\frac{\sum_{1 \text{ Jan 2013}}^{31 \text{ Dec 2013}} \text{ Actual number of customers interrupted}}{\text{ Simple average of annual customer numbers}}$ 

Momentary Average Interruption Frequency Index (MAIFIe):

 $\frac{\sum_{1 Jan 2013}^{31 Dec 2013} Actual number of customers interruptions}{Simple average of annual customer numbers} \le 1$ 

The calculations of SAIDI and SAIFI exclude momentary outages.

Customer numbers used for the numerator of the calculations are taken from OMS and are the customer numbers on the affected feeder as defined in the Network Model. The customer numbers used in the denominator are those from the billing information systems as described in the Definition of Customers section above.

All data used to calculate reliability measures is obtained from the verified and cleansed CMOS data.

All reclosers on the JEN network are telemetered so all data for the calculation of MAIFI is obtained through OMS. Only 5 reclosers on the JEN network have multi reclose functions enabled, all others only have one attempt to reclose before they lock out (remain open).

#### 2.2.9 MED threshold

The MED boundary is calculated based on the daily SAIDI contribution (i.e. excluding momentary outages) for the previous 5 year period as defined by the AER and the  $2.5\beta$  Methodology. The daily performance data is entered into the RIN Template 1c and the 5 year daily SAIDI history, excluding the Section 3.3(a) exclusions, is entered into the RIN Template 1d. A formula automatically calculates and identifies the MEDs.

#### 2.2.10 Exclusions

Events may be excluded from the reliability measure calculations if the SAIDI on that day exceeds the Major Event Day threshold or if they meet the definitions for Exclusion categories as defined by the AER in Section 3.3(a) of the STPIS.

Events that meet the criterion for exclusion from the calculation of the reliability parameters are identified by the Senior Asset Performance Engineer and are confirmed with the TNSP (SP AusNet) and are then notated in CMOS.

The process used for gathering data required for exclusions is described in the procedure *JEN AER Network Reliability Reporting Procedure, JEN PR 0502* for Template 1e, and *JEN AER RIN Non-Financial Information Reporting Procedure, JEN PR 0503* for Template 1d. This procedure was applied for the 2013 RIN data.

# 2.3 Objective evidence

The following evidence supports the findings.

#### 2.3.1 Documents reviewed

#### Table 2.1 Documents reviewed for STPIS – reliability parameters

Document title	Document reference		
JEN AER Customer Numbers Procedure	JEN PR 0017		
AER Network Reliability Reporting Procedure	JEN PR 0502		

Document title	Document reference
JEN AER RIN Non Financial Information Reporting Procedure	JEN PR 0503
JEN domestic and non domestic customer numbers from 2001 to 2014.xls	
JEN 1 October 2013 outage data.xlsx	
YVE_CENT B.PDF	
Sep 13.xlsx	
cognos.pdf	
30_Sep2013.docx	
YTS06 feeder fault 20130930 SCADA log.txt	
cognos COO11 25_9_2013.pdf	
EP_EAST CP.PDF	
Dec 13.xlsx	
cognos - ep36 28_12_2013.pdf	
28_12_13.docx	
EP36_20131228.txt	
Jan to Dec 2013_Final.xlsx	
OMS 57A	
JEN RIN - RY13 - Appendix C - Non-Financial CR 190214 v3.xlsx	

#### 2.3.2 General

- There has been minimal change in the systems and processes used in the 2013 audit period compared to those used in the 2012 audit period. The significant changes were:
  - The process of calculating the STPIS reliability parameters is predominantly undertaken by one staff member, however, Jemena confirmed that a second staff member has been trained to undertake the task and has been involved in reviewing the task. This is a significant improvement from the 2012 audit where the process was largely reliant on only one staff member.
- The auditor tracked the outage events of 1 October 2013 through the outage management systems from OMS and into the CMOS database<sup>1</sup>. The auditor found the data transferred between the systems to be consistent and follow the processes described. The auditor also confirmed that the events of this day exceed the MED threshold as reported by JEN.
- The auditor tracked an outage event through the outage management systems from SCADA records, through the event rectification process, to OMS<sup>2</sup>, into the CMOS database<sup>3</sup> and into the

<sup>&</sup>lt;sup>1</sup> JEN 1 October 2013 outage data.xlsx

<sup>&</sup>lt;sup>2</sup> cognos.pdf

<sup>&</sup>lt;sup>3</sup> Sep 13.xlsx

Daily Situation Report<sup>4</sup>. The auditor found the data transferred between the systems to be consistent, with no material inconsistencies and follow the processes described. The outage event sampled was Trouble Order number 79638 and was related to the outage of the feeder YTS06.

- The auditor tracked an outage event through the outage management systems OMS<sup>5</sup> and into the CMOS database<sup>6</sup>. The auditor found the data transferred between the systems to be consistent, with no material inconsistencies and follow the processes described. The outage event sampled was Trouble Order number 79066 and was related to the outage of the feeder COO11.
- The auditor tracked an outage event through the outage management systems from SCADA records<sup>7</sup>, through the event rectification process, to OMS<sup>8</sup>, into the CMOS database<sup>9</sup> and into the Daily Situation Report<sup>10</sup>. The auditor found the data transferred between the systems to be consistent, with no material inconsistencies and follow the processes described. The outage event sampled was Trouble Order number 86306 and was related to the outage of the feeder EP 36.
- The auditor tracked an outage event through the outage management systems OMS<sup>11</sup> and into the RIN template. The auditor found the data transferred between the systems to be consistent, with no material inconsistencies and follow the processes described. The outage event sampled was related to the outage of the feeder CN 04.

#### 2.3.3 Definition of feeder categories

- The processes, systems and definitions used to identify feeders were well understood by the staff members who consistently applied the same methodology.
- The data requires manual extraction and manipulation once it is in Excel spread sheet format. This
  introduces the possibility that human/transcription errors could be made. The auditor also noted that
  subjective decision making was required when allocating feeder types to some feeders, specifically
  the shared feeders from zone substation SA.
- A data verification process is undertaken, with a particular focus on the shared feeders (Powercor) and feeders close to the boundary of the definitions.

#### 2.3.4 Customer numbers

Table 2.2 shows the information reported by JEN in the RIN.

Formal procedures<sup>12</sup> have been written for all aspects of gathering, manipulating and verifying data relevant to the customer numbers parameters. These were provided to the auditor and assessed to be appropriate and fit for purpose. The auditor notes that these procedures were the same procedures provided during the 2012 audit, written retrospectively for the 2012 audit period; the procedures were current for the 2013 audit period.

- <sup>7</sup> EP36\_20131228.txt
- <sup>8</sup> cognos ep36 28\_12\_2013.pdf
- <sup>9</sup> Dec 13.xlsx
- <sup>10</sup> 28\_12\_13.docx

<sup>&</sup>lt;sup>4</sup> 30\_Sep2013.docx

<sup>&</sup>lt;sup>5</sup> cognos COO11 25\_9\_2013.pdf

<sup>&</sup>lt;sup>6</sup> Sep 13.xlsx

<sup>&</sup>lt;sup>11</sup> OMS 57A

<sup>&</sup>lt;sup>12</sup> JEN AER Customer Numbers Procedure JEN PR 0017

#### Table 2.2 Average distribution customer numbers

	CBD	Urban	Rural short	Rural long	Whole network
Customer numbers at the start of period		306,645	12,721		319,366
Customer numbers at the end of period		305,483	12,811		318,294
Average distribution customer numbers	0	306,064	12,766	0	318,830

Source: RIN Template 1a. STPIS Reliability, Table 5: Average distribution customer numbers

- The processes and systems used to identify customers were well understood by the staff member who consistently applied the same methodology.
- The auditor observed that JEN used the correct definitions for customers when calculating STPIS reliability measures.
- The data requires manual extraction and manipulation once it is in Excel spread sheet format. This
  introduces the possibility that human/transcription errors could be made.
- Verification involves a sanity check of the number of meters by the person extracting the data, with no verification by another party.
- The STPIS states that non-metered supplies can either be included or excluded when calculating SAIDI and SAIFI. In the reported RIN figures, when determining the number of customers affected by an outage, non-metered supplies that are included in the Network Model were included. There is a difference of approximately 2,518 customers (~0.8%) between the customer numbers derived from the billing system when compared to the Network Model. Most of these are thought to be due to non-metered supplies. This is due to:
  - The software in the Network Model not recognising a customer connection point that has been imported from GIS. These are rectified when found, but there is no formal process.
  - Disconnections are removed from the count of customers if enough time has elapsed to allow the updating of the network model from GIS.
  - Not all unmetered supplies are included in the network model.
- An estimation of the number of customers was identified in October 2013. This was estimated as the number of customers in September 2013 and is likely to have resulted in over-reporting in October 2013. However, the error only affected the monthly internal reporting. The customer numbers for December 2012 and December 2013 were unaffected.

#### 2.3.5 Identifying unplanned outages and calculating reliability measures

- The process of calculating, verifying and correcting outages and times is undertaken as detailed in JEN PR 0502.
- The systems and processes are well understood by the staff members who complete these tasks, and correct definitions were applied to calculate the reliability measures.
- During 2013 JEN used cause codes that were specified internally. JEN undertook a verification
  process monthly and at the end of the year to map them to the cause codes specified by the AER.
  The auditor considers that the process undertaken was satisfactory.
- Temporarily disconnected premises and temporary load transfers are included in the count of customers interrupted until the abnormal configuration has been updated into GIS. This may impact the accuracy of reliability figures.

- The difference of 2,518 customers between the network model and the customer information systems, as described in section 2.3.4, results in an understatement of approximately 0.8% of the reliability measures.
- Formal procedures exist governing the recording of outages and times from non-telemetered assets, for staff members in the control room. In the 2011 RIN audit, the auditor sampled some outages from CMOS and traced them back to the control room daily log. JEN confirms that no change has been made to these recording practices. From this sample, the auditor is satisfied that the procedures are followed correctly.
- There is a comprehensive data validation and cleansing process undertaken each month to ensure accurate times have been recorded for non-telemetered devices. Data validation sources include source data from OIW, Control Desk Daily Logs and the Daily Situation Reports. The auditor has viewed the process documented in the procedure, viewed evidence that the verification process had been undertaken during the 2013 period and noted that the changes are tracked.

#### 2.3.5.1 Unplanned SAIDI

Table 2.3 shows the information reported by JEN in the RIN.

#### Table 2.3 SAIDI (System Average Interruption Duration Index)

	Network categorisation				
Unplanned SAIDI <sup>1 (refer note)</sup>	CBD	Urban	Rural short	Rural long	Whole network
Total		64.67	114.42		66.66
Total (after removing excluded events and MED)		57.51	114.39		59.79

Source: RIN Template 1a. STPIS Reliability, Table 1: SAIDI (System Average Interruption Duration Index)

The auditor was able to repeat the above results with the data supplied.

#### 2.3.5.2 Unplanned SAIFI

Table 2.4 shows the information reported by JEN in the RIN.

#### Table 2.4 SAIFI (System Average Interruption Frequency Index)

	Network categorisation				
Unplanned SAIFI <sup>2 (refer note)</sup>	CBD	Urban	Rural short	Rural long	Whole network
Total		1.12	2.42		1.18
Total (after removing excluded events and MED)		1.06	2.42		1.11

Source: RIN Template 1a. STPIS Reliability, Table 2: SAIFI (System Average Interruption Frequency Index)

The auditor was able to repeat the above results with the data supplied.

#### 2.3.5.3 Unplanned MAIFI

Table 2.5 shows the information reported by JEN in the RIN.

#### Table 2.5 MAIFI (Momentary Average Interruption Frequency Index)

	Network categorisation				
Unplanned MAIFI <sup>3 (refer note)</sup>	CBD	Urban	Rural short	Rural long	Whole network
Total		0.71	2.39		0.78
Total (after removing excluded events and MED)		0.70	2.39		0.77

Source: RIN Template 1a. STPIS Reliability, Table 3: MAIFI (Momentary Average Interruption Frequency Index)

The auditor was able to repeat the above results with the data supplied.

#### 2.3.5.4 Planned Outages

Table 2.6 shows the information reported by JEN in the RIN.

#### Table 2.6Planned outages

	Network categorisation				
Planned outages	CBD	Urban	Rural short	Rural long	Whole network
SAIDI		21.79	66.87		23.59
SAIFI		0.08	0.27		0.09

Source: RIN Template 1a. STPIS Reliability, Table 4: Planned outages

The auditor was able to repeat the above results with the data supplied.

For details of GSL payments relating to planned outages, refer to section 3.2.7.

#### 2.3.5.5 MED threshold

Table 2.7 shows the information reported by JEN in the RIN.

#### Table 2.7MED Threshold

Source: RIN Template 1d. STPIS MED Threshold, Table 1 MED Threshold

- The Major Event Day (MED) threshold was correctly defined and calculated. There was 1 MED during the 2013 period.
- The "Network SAIDI All events" values for 2008-2011 used to calculate the 2013 MED threshold were consistent with those used to calculate the 2012 MED threshold.

#### 2.3.5.6 Exclusions

 Exclusions were correctly defined. There were no exclusions (Section 3.3(a)) identified during the 2013 period. The auditor notes that the process relating to identification of exclusions and their inclusion in the calculation of reliability measures is included in JEN PR 0502.

# 2.4 Audit Findings

For the 2013 audit period, JEN's reported reliability parameter data have been found to comply with the definitions contained in the STPIS and have been assigned the audit grades outlined in Table 2.8.

These audit findings are supported by the objective evidence in Section 2.3.

Table 2.8	JEN compliance grade for STPIS reliability parameters
-----------	-------------------------------------------------------

ltem	Criterion 1	Criterion 2	Criterion 3	Criterion 4	Criterion 5	Criterion 6	Result	Comment
	Reliability	Documentation	Understanding	Definitions	Error Correction	Repeatability		
Customer numbers	•	•		•	•	•	Compliant	Difference between Network model and billing system
Unplanned SAIDI							Compliant	
Unplanned SAIFI							Compliant	
Unplanned MAIFI							Compliant	
Planned Outages								
SAIDI							Compliant	
SAIFI							Compliant	
MED Threshold							Compliant	
Exclusions							Compliant	

Source: Parsons Brinckerhoff analysis

# 2.5 List of personnel met during the audit

#### Table 2.9Personnel interviewed

Staff member	Position title	Area
David Speairs	Network Performance Manager	Network Performance
Catherine Lee	Senior Asset Performance Engineer	Network Performance
Utku Ay	Asset Performance Engineer	Network Performance
Pat Brennan	Network Coordination Manager	Network Control Centre

Source: JEN



# 3. STPIS – customer service parameters

This section outlines the auditor's assessment of the reliability and robustness of systems, processes and procedures used by JEN to report on Customer Service components of the RIN (Template 1b of the RIN).

# 3.1 Summary of audit requirement

The auditor is to assess whether the processes, procedures and systems were correctly used and applied by the relevant staff, and that the definitions and data exclusions were in accordance with the STPIS. Further, the auditor must assess whether the systems used are able to competently identify and correct errors, and if the RIN templates being audited show any corrections.

The auditable information includes:

- telephone answering data:
  - total number of calls received and
  - number of calls answered within 30 seconds (with exclusions)
- new connections data:
  - number of new connections
  - number of new connections not provided on or before the agreed date.
- street light repair data:
  - number of streetlights
  - number of faults
  - number of streetlights repaired within the relevant
- GSL reporting (relating to the planned interruptions parameter only):
  - Number of appointments arranged and attended on time for AMI and non AMI meters
  - number of connections not made within the agreed date

- reliability of supply payments (excessive duration of frequency)
- number of street lights not repaired within required timeframe
- number of occasions a notice of planned interruption to supply was not given on or before the threshold.

## 3.2 Overview of data systems

#### 3.2.1 Telephone answering

Template 1c requires the daily number of calls received to be provided.

JEN has outsourced its telephone answering service to an external service provider, AEGIS. AEGIS performs four main functions:

- Identifies incoming calls as JEN customers
- Provides an interactive system to play messages and route calls to operators
- Records call data and provide reports to JEN
- Provides information to JEN regarding faults reported by customers.

AEGIS's system comprises three main components as shown in Figure 3-1 below. AVAYA is the system which accepts the calls. It has a Dialled Number Identification Service (DNIS) which recognises the callers as JEN customers based on the number dialled, and can use the DNIS to provide a location based on the incoming caller ID, and logs the call times. AVAYA has its own database.

AVP provides the user self-serve selection facilities which plays messages relevant to the area of the post code entered by the customer and routes the customers to the relevant operators. AVP has its own database and tracks the phone calls through each step, by assigning a Unique Caller Identification Number (UCID) and a time stamp at each step. The calls can then be individually traced if required.

The calls are then transferred to another system where they are queued for an operator.

The reporting of calls and histories is done through a predefined data base query script with the definitions defined as agreed with JEN in the service level contract. The key definitions are:

- if caller hangs up after the start of a message and ≤ 30 second after the message has finished then it is classed as 'Self-Serve'
- if a caller hangs up prior to being placed in the queue for an operator, excluding the time window of 'Self Serve', the call is classed as abandoned ≤30 seconds
- once in the queue for an operator, the time starts to count from 0 seconds.

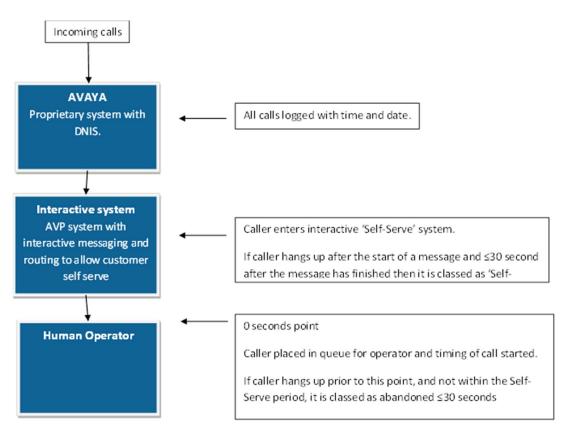


Figure 3-1 Flow diagram of telephone answering system

#### 3.2.2 New connections

New customer connection data is stored in two databases:

- CIS+ is a system which stores customer data but this data has been transitioning to SAP since 2010 whenever a customer meter is changed into a smart meter as part of the AMI project. Note some customers (predominantly large usage customers) are not within the scope of the AMI project and will remain in the CIS+ system in the foreseeable future.
- SAP the new system replacing CIS+. Data for customers with smart meters is entered into SAP.

The process to capture the new connections data is initiated by the retailer by sending an electronic service order followed by hard copy paper work to JEN. The paperwork explicitly states the job is a New Connection and includes any permits required. All new connections are processed through SAP. JEN verifies the electronic and hard copy forms against each other and checks in SAP and CIS+ to ensure the connection does not already exist. Once entered into SAP, the new connection order is tracked through SAP and will be shown as outstanding/incomplete service order.

Both the electronic and hard copy must be received for the service order to be progressed in the JEN systems. Once the service order is accepted the 10 day period allowed by the GSLs starts to accrue.

The service order is entered into SAP by JEN and manually issued to field crews who must acknowledge receipt. The target date is set at 2 days as a standard, but can be negotiated with the contractor if required.

The actual completion date is recorded by SAP when the service order is closed.

The number of new connections is reported monthly. The report for new connections is run on the 3<sup>rd</sup> day of each month. The reporting process is semi-automated; SAP completed service orders are export to a spread sheet and manually filtered to isolate new connection numbers

Complaints regarding new connections are received and registered via the call centre.

#### 3.2.3 Disconnections (Abolishments)

Disconnections can include either electrical disconnection where a switch is opened to stop electricity supply to a customer (de-energisation), or it can include the physical removal of the electrical conductor and associate equipment (abolishment).

JEN has understood the disconnections reporting field in the RIN to be the number of abolishments.

Customer disconnection data is stored in two databases:

- CIS+ is a system which stores customer data but has been transitioning to SAP since 2010.
- SAP the new system replacing CIS+. Data for customers with smart meters is entered into SAP.

The process to capture disconnections (abolishments) is initiated by the retailer by sending an electronic service order followed by hard copy paper work to JEN. The paperwork explicitly states the job is a disconnection (abolishment), contains the NMI and permits required for working on the network. JEN verifies the electronic and hard copy forms against each other and checks in SAP and CIS+ to ensure the connection exist. Once entered into SAP, the disconnection (abolishment) order is tracked through CIS+/SAP and will be shown as outstanding/incomplete service order.

Once the meter number is validated and all forms are received, JEN contacts the contractor and organises the target disconnection (abolishment) date, normally set for 2 days unless otherwise negotiated.

If an appointment is scheduled, disconnection (abolishment) is scheduled in Microsoft Outlook, which is used as a reconciliation tool to assess the number of disconnections (abolishments).

#### 3.2.4 Street light repair

Streetlight locations and numbers are recorded in GIS and imported into SAP. A BRIO query is run to extract the streetlight data from SAP into an excel spread sheet which is used to calculate the required volume and fault measures.

Streetlight data is updated during bulk light replacements. The public lighting contractor uses 'tough books' to check data against GIS when in the field and update if required

Additional data reliability checks are required by JEN as an annual sample audit under the Metrology process. Further, councils have access to public lighting data through a web application and can therefore complete their own audits and report faults.

Streetlight faults reported by the public are recorded and addressed by the following process:

- Customer contacts the call centre regarding streetlight fault.
- Call centre operator opens GIS web application, locates the public light and starts the editor to create a faulty streetlight notification. The notification includes the location and repair code, and is then transferred electronically to create a SAP notification. There are two types of repair codes:
  - G = GSL applicable, 2 days to repair, outside or adjacent to the complainants residence

- P = no GSL payment applicable, 7 days to repair, all other cases.
- The public lighting contractor monitors the SAP public lighting output and dispatches a field crew to correct problem.
- The contractor updates SAP with close out date/time to remove the notification.

The street light report is run at the start of each month for the previous month and at the start of the year for the previous year. The yearly report is compared with the aggregate of the monthly reports for the purposes of RIN reporting.

#### 3.2.5 Appointments

Appointments are made as required, typically where there are access issues for meter reads, alterations on-site or a new connection. Appointments for AMI are completed using a separate system.

The JEN Service Desk schedules the appointments with the customer and records the date in Outlook and the customer's account in either CIS+ or SAP.

The contractor must email JEN the job details after attending the appointment, including arrival time. The arrival time is stored in the customer's account details and is extracted by running queries through CIS+ and SAP. The outputs from the two systems are added manually in a spread sheet.

AMI appointments are logged through the external vendor Service Stream. Service Stream provides notification to the customer with a letter notifying of their requirement to access the property 10 days prior to the AMI installation. The customer can contact Service Stream to negotiate a different date.

The work order is logged in the Service Stream system and dispatched to work crews electronically on their PDA. The arrival of the work crews is registered on the PDA and the report relating to attendance of appointments is sent to JEN weekly. During the audit period, the reporting method was transferred from emailing Excel spread sheets to a B2B interface.

## 3.2.6 GSLs for Unplanned interruptions

The process of capturing unplanned outage data is described in Section Unplanned outages2.2.4. The GSLs for unplanned data require a different analysis to assess the total duration and number of interruptions during the reporting period.

Analysis for GSL purposes was completed once at the start of 2014 using all the 2013 data. Queries were run to extract data from OMS and import it into an Excel spread sheet.

The outages can also be viewed using the application called 'Outage Web' which is used for verification and reconciliation purposes.

## 3.2.7 Notification of Planned outages

Network outages are identified as either planned or unplanned. A planned outage includes all prearranged outages, including those prearranged outages where customers were not provided with the required notification. All other outages are classified as unplanned.

The LV operations group located in Broadmeadows is responsible for notifying customers who will be affected by a planned outage. The number reported in the RIN is the number of customers who did not receive the specified period of notice prior to commencement of the outage.

The following process is undertaken to identify and notify customers that will be affected:

- the field crew inspects the site
- creates outage cards
- assesses GIS for the customers connected to the affected plant
- the LV operations group then hand delivers notifications to residents who are expected to be affected by the planned outage.

Customers who are not notified can either communicate directly to the field crew who immediately pass the information on to an operator at the control room desk, or call the call centre where it is logged and sent to the dispatcher in the control room.

## 3.3 Objective Evidence

The following evidence supports the findings.

#### 3.3.1 Documents reviewed

#### Documents reviewed for STPIS – customer service parameters

Document title	Document reference	
JEN AER RIN Non Financial Information Reporting Procedure	JEN PR 0503	
AER FAULTS ANNUAL GOS & ESC GSL REPORTING WORK INSTRUCTION	JEM-W-2960	
B2B New Connection Service Order Procedure	JEM-P-4900-03	
NC AMI Service Order Creation	JEM-P-4900-60a	
Service Order Abolishment Process	JEM-P-4900-08	
GSL Payment Procedure New Connections	JEM-P-4900-34	
JEN Monthly Reporting	JEM-P-4900-98	
Module 84e MRO Missed Appointments	JEM – P5-S2-563	
JEN AER Public Lighting Reporting Procedure	JEN PR 0500	
JEN Reliability of Supply GSL Reporting Procedure	JEN PR 0113	
Planned Interruption Notification Policy	IME 1057	
Planned Interruption Notification Procedure		
CoC Planned Interruption Customer Notification	JEN-PR-9667	
2013 Faults & GOS JEN only_cl20130117.xls		
2013 RIN - JEN GSL (final)_cl20140117.xls		
NC GSL Audit.xlsx		
FW RIN A 2013 Audit - New Connection GSL's.msg		
Public lighting data checks 3.docx		
AER Planned interruptions reporting 2011_12_13_JEN.xlsx.		
JEN RIN - RY13 - Appendix C - Non-Financial CR 190214 v3.xlsx		

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#### 3.3.2 Telephone answering

The information reported by JEN in the RIN is shown in Table 3.1

#### Table 3.1 Telephone answering

Telephone answering	Total	Total after removing MED
Number of calls received	76,248	74,599
Number of calls answered within 30 seconds	47,151	46,960
Percentage of calls answered within 30 seconds	61.84%	62.95%

Source: RIN Template 1b. STPIS Customer Service, Table 1: Telephone answering

- Two procedures were supplied during this audit that were sighted during the previous audit:
  - The procedure JEN PR 0503 provides the definitions of the calculations undertaken for the reported data.
  - The procedure JEM-W-2960.3 covers the process to extract, manipulate and distribute the telephone call system data.
- The auditor confirmed that no change had been made to the process of extracting data from the telephone systems since the last audit. Hence, the auditor relied on the 2012 RIN audit that found the data definitions of extracted data were in accordance with the RIN requirements.
- The auditor followed the data through from daily reporting, to monthly values and the yearly reported statistics. The auditor found the data transferred between the systems to be consistent, with no material inconsistencies and follow the processes described. The data sampled was related to the telephone answering of January 2013 and Dec 2013.
- The processes and systems used to create the reported data were well understood by staff who consistently applied the same methodology.

#### 3.3.3 New connections

The information reported by JEN in the RIN is shown in Table 3.2

#### Table 3.2 New connections

New connections	Total
Number of new connections	7,409
Number of new connections not provided on or before the agreed date	5
Percentage of new connections not provided on or before the agreed date	0.07%

Source: RIN Template 1b. STPIS Customer Service, Table 2: New connections

- Three procedures regarding new connections were provided to the auditor. The procedure JEM-P-4900-03 describes the procedure for creating new connections related to non-AMI meters in CIS+. The procedure JEM-P-4900-60a covered the creation of new connections related to the AMI meters in SAP. The procedure JEM-P-4900-98 describes the procedure for monthly reporting on new connections.
- The processes and systems used to identify customers were well understood by staff who consistently applied the same methodology.
- The process uses minimal automation and is heavily paper based increasing the possibility for human errors to be introduced.
- The monthly report cannot be re-run to audit data from that month. This limits the ability of staff to
  assess data for errors retrospectively.

- No evidence was provided to the auditor to prove the system captures retrospective changes to completion dates.
- Monthly reports are aggregated to provide the yearly reporting data. No validation is undertaken from the original information source.
- The auditor reviewed SAP data for all new connections not made within 10 days. In 2013, 3 new connections in SAP were paid GSLs for missed connections. A further 448 new connections exceeded the 10 day threshold, with acceptable reasons for connections outside of the 10 working days.
- The auditor reviewed an extract of CIS+ data for all new connections not made within 10 days. In 2013, 2 new connections in CIS+ were paid GSLs for missed connections

## 3.3.4 Disconnections (Abolishments)

- The auditor confirmed that the systems and processes used for recording and reporting disconnections have not changed since the previous audit.
- The procedure JEM-P-4900-08 covers creating an abolishment service order to initiate a service abolishment.
- The processes and systems used to identify customers were well understood by staff who consistently applied the same methodology.
- Disconnections were correctly identified from the data extracted from the information systems.
- The process uses minimal automation and is heavily paper based increasing the possibility for human errors to be introduced. The auditor does not consider this a robust process.

## 3.3.5 Street light repair

The information reported by JEN in the RIN is shown in Table 3.3

#### Table 3.3 Streetlight repair

Streetlight repair	Total
Total number of streetlights	69,058
Total number of streetlight faults	3,054
Total number of streetlight faults reported by person who is the occupier of an immediately	
neighbouring residence or is the proprietor of an immediately neighbouring business	
Faulty streetlights not repaired within 2 business days of fault report or agreed date	2
Percentage of faulty streetlights not repaired within 2 business days of fault report or agreed date	0.07%

Source: RIN Template 1b. STPIS Customer Service, Table 3: Streetlight repair

- The procedure, JEN PR 0500, relating to the reporting of all street light data relevant to Tables 3 and 4 in Template 1b of the RIN has been provided and the auditor considers it adequate. This procedure has been updated since the 2012 audit period to include an additional section on year end data checks. This is an improvement on the 2012 audit year.
- The processes and systems used to identify customers were well understood by staff who consistently applied the same methodology.
- The data needs to be manually inserted into the street lights spread sheet, but minimal analysis and manipulation is required.
- The definitions applied are consistent with the STPIS as required by the RIN.
- The auditor followed to notifications through from the yearly reported data, through the GIS system and into a SAP notification. The auditor found the data transferred between the systems to be

consistent, with no material inconsistencies and follow the processes described. The data sampled was related to notifications 10198970 and 10206753.

## 3.3.6 Appointments

- The process of making and tracking appointments and applying GSLs was confirmed to not have changed since the previous audit.
- Two formal procedures apply to the recording of appointments and the application of GSLs for missed appointments
  - Module 84e MRO Missed Appointments JEM-P5-S2-563 which focuses on AMI meters(this procedure has been updated but has been confirmed to contain no material changes since the 2012 audit)
  - GSL Payments Procedure New Connections JEM-P-4900-34 which focusses on appointments for new connections.
- The processes and systems used to identify customers were well understood by staff who consistently applied the same methodology.
- The correct definitions were used relating to late arrival to appointments.
- The process currently in place for non-AMI appointments relies heavily on paper work and manual entry of information. It also relies on the honesty and accuracy of the contractors reporting their arrival time. The auditor does not consider this a robust process.
- Verification of arrival times is only assessed through customer complaints and a monthly
  reconciliation undertaken by the Service Desk to compare the appointments in Outlook to the
  appointments that have been attended by the service providers.
- Select Solutions also undertakes periodic audits of appointments.

## 3.3.7 Unplanned interruptions

- The procedure JEN PR 0113 was provided. It was confirmed that there were no material changes to this procedure since the 2012 audit.
- The processes and systems used to extract data and identify customers eligible for GSL payments due to reliability were well understood by staff and they consistently applied the same methodology.
- The times of the outages and any inconsistencies in CMOS are verified against 'Outage Web'. The auditor observed the process and is satisfied it is robust.
- Correct definitions for the durations, interruptions and payments were shown to be applied in the informal procedure.
- Although the overall process used is considered robust, the auditor notes that it could be improved by leaving a better audit trail of any changes made.

## 3.3.8 Planned outages

- The procedures Planned Interruption Notification Policy IME 1057 was confirmed to have no material changes since the 2012 audit.
- The new procedure Planned Interruption Notification Procedure, which was current during the 2013 audit period, was provided to the auditor. The auditor reviewed the procedure and found that it did not outline the obligation to provide notice for planned outages. The auditor notes that the policy and procedure principles have been incorporated into a new document, CoC Planned Interruption

Customer Notification JEN-PR-9667, which will be utilised for the 2014 audit period. The auditor reviewed this document and assessed it to be appropriate and fit for purpose.

- The processes and systems used to notify customers of planned outages are well understood by staff and are consistently applied.
- The procedure correctly identifies the notification period to be 4 days prior to the planned outage.
   The auditor noted this was identified in the Planned Interruption Notification Policy.
- The only verification available that all customers were notified is through complaints received by JEN either through the field crews or through the call centre, where it is noted as a fault. Given the robustness of the complaints recording process, the auditor is satisfied that this is a satisfactory system.
- The predominant reason for failing to notify customers of outages is if the customer is shown in GIS to be located on the wrong side of an LV open point. The auditor understands that sometimes it is necessary to relocate a customer's attachment point for load balancing/supply quality purposes. The auditor considers that, in order to improve the notification of planned outages, a stronger focus should be placed on recording these changes in GIS.
- The auditor noted that planned interruptions that were not notified are also included in the unplanned outages, but considers this duplication to be insignificant.
- The auditor sited the planned interruptions 4 days' notice not given for 2013.

#### 3.3.9 GSLs (jurisdictional scheme)

The information reported by JEN in the RIN is shown in Table 3.4.

Table 3.4	Guaranteed service levels - jurisdictional GSL scheme
-----------	-------------------------------------------------------

Appointments (excluding AMI)	
Customer arranged appointments Central - number	3,629
Appointments not met within 15 minutes of agreed time - number	22
Appointments - GSL payments - number	22
Appointments - GSL payments - (\$)	\$ 440.00
Appointments (AMI only)	
Customer arranged appointments Central - number	32,588
Appointments not met within 15 minutes of agreed time - number	1,180
Appointments - GSL payments - number	1,180
Appointments - GSL payments - (\$)	\$ 23,600.00
Connections	
Connections made	7,409
Connections not made on agreed date	5
Connections - GSL payments - 1-4 day delay - number	3
Connections - GSL payments - 1-4 day delay - (\$)	\$ 250.00
Connections - GSL payments - 5+ day delay - number	2
Connections - GSL payments - 5+ day delay - (\$)	\$ 500.00
Reliability of supply	
Low reliability payments - 20 hours - number	340
Low reliability payments - 20 hours - (\$)	\$ 34,000.00
Low reliability payments - 30 hours - number	28
Low reliability payments - 30 hours - (\$)	\$ 4,200.00
Low reliability payments - 60 hours - number	0
Low reliability payments - 60 hours - (\$)	\$ -
Low reliability payments - 10 events - number	0
Low reliability payments - 10 events - (\$)	\$ -

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Low reliability payments - 15 events - number	0
Low reliability payments - 15 events - (\$)	\$ -
Low reliability payments - 30 events - number	0
Low reliability payments - 30 events - (\$)	\$ -
Low reliability payments - 24 momentary events - number	0
Low reliability payments - 24 momentary events - (\$)	\$ -
Low reliability payments - 36 momentary events - number	0
Low reliability payments - 36 momentary events - (\$)	\$ -
Street lights	
Street lights	69,058
Street lights "out" during period	3,054
Street lights not repaired by "fix by" date	4
Street lights not repaired in 2 business days	1,568
Street lights – number of business days to repair	3.3
Street lights - GSL payments - number	2
Street lights - GSL payments - (\$)	\$ 20.00
Planned interruptions	
Planned interruptions - 4 business days notice not given	61
Total GSL payments made (\$)	\$ 63,010.00

Source: RIN Template 1b. STPIS Customer Service, Table 4 Guaranteed service levels - jurisdictional GSL scheme

## 3.4 Audit Findings

For the 2013 audit period, JEN's reported customer service parameter data have generally been found to comply with the definitions contained in the STPIS and have been assigned the audit grades outlined in Table 3.5.

Item	Criterion 1 Reliability	Criterion 2 Documentation	Criterion 3 Understanding	Criterion 4 Definitions	Criterion 5 Error Correction	Criterion 5 Repeatability	Result	Comments
Telephone answering	٠	•	•	•	•	•	Compliant	
New connections	٠	•	•	٠			Compliant	Heavily paper based process Weak verification process
Street light repair	٠	•	•	٠	•	•	Compliant	
GSLs (jurisdictional scheme)								
<ul> <li>Appointments (ex AMI)</li> </ul>	٠	•	•	٠	٠	•	Compliant	Heavily paper based process and recording of appointment arrival times not robust Weak verification process
<ul> <li>Appointments (AMI only)</li> </ul>	•	•	•	•	•		Compliant	Weak verification process
<ul> <li>Duration</li> </ul>	٠			٠	•		Compliant	
<ul> <li>Sustained interruptions</li> </ul>	٠			٠		•	Compliant	
<ul> <li>Momentary interruptions</li> </ul>	٠			٠			Compliant	
<ul> <li>Street lights</li> </ul>	•			٠	•		Compliant	
<ul> <li>Planned interruptions</li> </ul>	٠		•	٠	•		Compliant	Notification step absent from notification procedure

#### Table 3.5 JEN compliance grade for STPIS customer service parameters

Source: Parsons Brinckerhoff analysis

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## 3.5 List of personnel met during the audit

#### Table 3.6 Personnel interviewed

Staff member	Position title	Area
David Speairs	Network Performance Manager	Network Performance
Catherine Lee	Senior Asset Performance Engineer	Network Performance
Utku Ay	Asset Performance Engineer	Network Performance
Pat Brennan	Network Coordination Manager	Network Control Centre
David Rooney	Business Service Improvement Manager	Stakeholder Relations
Steven Taig	Connection Point Compliance Manager	Connection Point Compliance
Slavica Nikolovski	New Connections Team Leader	New Connections

Source: JEN

# Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-9

JEN board resolution

Public



30 April 2014

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Extract of Minutes of Meeting of the Jemena Electricity Networks (Vic) Limited (ACN 064 651 083) Board held at 11:04 am (AEST) on 16 April 2014 at the Company's offices at 321 Ferntree Gully Road, Mt Waverley, Victoria.

I, Tina Ooi, Company Secretary of Jemena Electricity Networks (Vic) Limited (**Company**) certify:

- (i) that this is a true and correct extract of the resolutions approved by the Company's Board, at a duly convened and constituted meeting, held at the Company's offices on 16 April 2014; and
- (ii) the resolutions have not been amended or revoked.

Tina Ooi 22 April 2014

## Board Resolution approving – "Regulatory Accounting Statements and Non-Financial Templates for CY 2013"

The Company's Board resolved to:

- "...(iii) confirm that to the best of the Board's information knowledge and belief, and subject to the information not provided as described in the KPMG audit report, the CY2013 Regulatory Accounting Statements are true and fair;
  - (iv) confirm that to the best of the Board's information, knowledge and belief, the Non-financial Templates are true and fair;...".

# Jemena Electricity Networks (Vic) Ltd

**Response to the annual Regulatory Information Notice for the 2013 regulatory year** 

Appendix 1-10

Statutory declaration - RIN Appendix D

Public



30 April 2014

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#### STATUTORY DECLARATION

Evidence (Miscellaneous Provisions) Act 1958, VIC,

I, Paul John Adams of 321 Ferntree Gully Road, Mt Waverley 3149 in the State of Victoria, do solemnly and sincerely declare that:

I am an officer, for the purposes of the *National Electricity (Victoria) Law* (**NEL**), of Jemena Electricity Networks (Vic) Limited ABN 82 064 651 083 (**JEN**), a regulated network service provider for the purposes of section 28D of the NEL.

2.

1

The response of JEN regarding the information required to be provided and to be prepared and maintained as specified in the Australian Energy Regulator's (**AER**) Regulatory Information Notice (**Notice**) dated 1 June 2012, with the exception of the information to be audited under paragraph 1.1 of Appendix E to this Notice, is to the best of my information, knowledge and belief:

a) except where expressly stated otherwise in the response submitted by JEN, in accordance with the requirements of the Notice; and

b) is true and an accurate reflection of JEN's internal records used in the normal course of business, and in all material respects can be relied upon by the AER to:

- monitor the compliance of JEN with the distribution determination that applies to it for the regulatory control period that commenced on 1 January 2011;
- ii. publish reports relating to the financial or operational performance of JEN; and
- iii. prepare for the making of the distribution determination that will apply to JEN for the regulatory control period commencing 1 January 2016,

in respect of the distribution services provided by way of the electricity distribution network JEN operates in Victoria.

I acknowledge that this declaration is true and correct, and make it with the understanding and belief that a person who makes a false declaration is liable to the penalties of perjury.

Declared at	MELBOURNE	in the State of Victoria
this 28 <sup>th</sup> day of	APRIL 2014	*
$\sim$		
(Signat	ture of person making declaration)	
Before me: (Signal	ture of authorised witness of 321 Ferntree Gully Roa	N MARRIOT-SMITH nd, Mt. Waverley, VIC 3149 egal Practitioner e Legal Profession Act 2004)