TEMPLATE EXPLANATION



These templates form part of the information requirements of the AER as part of its annual compliance review against the service standards in TransGrid's revenue cap decision.

Yellow worksheets ('Inputs- Performance' and 'Inputs- Exclusions') are for inputs, including performance and exclusion information. TransGrid only needs to enter data on these sheets.

Purple worksheets 'S1' to 'S6' are the s-factors results based on the performance inputs from the 'Inputs - Performance' sheet.

Blue worksheet 'Revenue Calculation' quantifies the appropriate revenue to be applied to the s-factor results adjusted for CPI.

Red worksheet 'Outcomes' shows the total performance, s-factor and financial incentive results based on the TNSP's performance in 'Inputs-Performance' and 'Revenue Calculation' sheets.

Orange worksheet 'Exclusion Definitions' are the defined exclusions for TransGrid which should form the basis of exclusion requests under 'Inputs-Exclusions' sheet.

TRANSGRID - SERVICE STANDARDS PERFORMANCE 2006

PERFORMANCE MEASURE	s	Performance (Without exclusions)	Performance (With exclusions)	NOTES:
Transmission line availability	S1	99.563127%	99.565846%	Pink cells- Input performance without exclusions from performance data
Transformer availability	S2	98.837670%	98.837889%	Orange cells- Input performance with exclusions from
Reactive plant availability	S3	98.922566%	98.922566%	performance data
Reliability (Events > 0.05 and <=0.4 system minutes)	S4	2	2	Green cell (C14) input date that template data was entered. Enter date of any revisions from original version
Reliability (Events > 0.4 system minutes)	S5	0	0	(C15).
Average outage restoration time	S6	857	824	Performance should be based on 2006 calendar year data

Date prepared:	18 January 2006
Revision date:	

TRANSGRID - Proposed exclusions

C	IRCUIT AVAILABILITY MEASURES	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Reactive plant or transformer	Quantitative impact	Reasons for exclusion request	Further references
ava	me of any circuit ilability measures lying to TransGrid	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date : event	and time of	End date a event	and time of	Name of circuits affected	Name of any reactive plant or transformer affected	Number of hours, mins etc interrupted	Reason for excluding this event. Should include a reference to the defined exclusions (see Exclusion definition tab). Eg. Exclusion 1.3 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
		0-2006-F0006	TransGrid's staff were to perform in service intertrip checks. Victorian staff had advised intertrips isolated before work commenced. An intertrip signal was sent which tripped the circuit breaker for this line at Wodonga.	Victorian TNSP staff had not isolated intertrip links for this circuit.	20/06/06	19:52:00	20/06/06	10:59:00	060		0.1	3rd party outage	
		1-2006-F0214	Contractor injured EnergyAustralia's pilot cable at Vera St, Mayfield. Circuit Breaker for this line tripped. He did dial before digging and EnergyAustralia gave clearance to dig. No loss of load.	Contractor injured pilot cable; either cable was located in the wrong place or contractor identified wrong cable location.	4/12/06	13:55:00	4/12/06	16:23:00	96X		2.47	3rd party outage	
		3-2006-F0176	Snowy Hydro Ltd staff working on auto-synchronous circuit current transformers caused unplanned opening of circuit breakers controlling this line at TransGrid's Upper Tumut substation. Generator Unit 2 was inservice at 80MW at the time.	Snowy Hydro Ltd staff error.	21/06/06	10:37:00	21/06/06	10:42:00	U1		0.08	3rd party outage	
		3-2006-F0179	A fault on Snowy Hydro Ltd's 17kV busbar on Unit 11 at their Murray power station caused unplanned opening of circuit breakers controlling this line at TransGrid's Murray substation. Snowy Hydro Ltd generation 55MW at time of trip.	Fault on Snowy Hydro Ltd's 17kV Busbar.	26/06/06	22:11:00	27/06/06	19:00:00	M11		20.82	3rd party outage	
S1	Transmission line availability	3-2006-F0208	A blown voltage transformer secondary fuse on Snowy Hydro Ltd's Transformer Group at Murray 2 power station caused their protection to operate resulting in unplanned tripping of circuit breakers controlling this line at TransGrid's Murray substation. No generation in-service at time of trip.	secondary fuse.	22/11/06	13:24:00	22/11/06	22:05:00	M11		2.68	3rd party outage	
		1-2006-F0177	Lightning/Storm.	Lightning on Queensland's portion of line.	13/11/06	19:21:00	13/11/06	19:21:00	8M		0	3rd party outage	
		2-2006-F0105	A fault in EnergyAustralia's system caused 760MW of load loss which included 910,90F,241 feeders to their Green Park and Sefton substations which resulted in a system over- voltage. TransGrid's circuit breakers at Beaconsfield West substation controlling cable 41 protend following cable 41 protection detecting the system over-voltage. Investigation showed the cable 41 protection operated correctly.	A fault in EnergyAustralia's system caused system over- voltage.	22/11/06	16:35:00	22/11/06	16:41:00	41		0.1	3rd party outage	

			A bushfire was present along a length of line 991 in very hot and windy weather. Eight (8) poles on the line were found burnt down or damaged. Vegetation in the easement is managed in a regulated and timed manner including regular inspections. TransGrid is not responsible for	Bushfire.	2/01/06	05:44:00	3/01/06	16:40:00	991		34.93	Force Majeure	
_		2-2006-F0117	vegetation adjacent to easements, except where trees could fall and damage lines. Integral Energy staff were removing temporary protection at their West	their West Liverpool	17/12/06	16:05:00	17/12/06	19:09:00		Tx No3 Liverpool	3.07	3rd party outage	
S2	Transformer availability		Liverpool substation following service voltage testing of Integral Energy's new No.4 Transformer. Line 93R No.2 protection operated and tripped direct connected No.3 Tx at TransGrid's Liverpool substation.	substation.									
	Reactive plant												
S3	availability												

		DSS OF SUPPLY ENT FREQUENCY	Event proposed for exclusion			Start time	End date	End time	Circuits affected	Maximum system demand	Quantitative impact	Demand shed and time	Reasons for exclusion request	Further references	
m		of any loss of supply res applying to Grid	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date event		End date a event	ind time of	Name of circuits or plant affected	The max system demand that occurred up until the time of the event		shed and the duration	Reason for excluding this event. Should include a reference to the defined exclusions (see Exclusion definition tab). Eg. Exclusion 1.3 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
s		Reliability (events > 0.05 and <=0.4													
0		system minutes)													
	F	Reliability (events >													
3		.4 system minutes)													

AVERAGE OUTAGE DURATION	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Start date	Start time	End date	End time	Circuits affected	Quantitative impact	Capped impact (if applicable)	Reasons for exclusion request	Further references
Name of any average outage duration measures applying to TransGrid	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the TNSP, assets damaged or interrupted.	A description of the cause of the event	Start date a event	and time of	End date a event	nd time of	Name of circuits or plant affected	Number of hours, mins etc interrupted	Impact following any applicable cap	Reason for excluding this event. Should include a reference to the defined exclusions (see Exclusion definition tab). Eg. Exclusion 1.3 Third party event	details of an exclusion event.
		TransGrid's staff were to perform in service intertrip checks. Victorian staff had advised intertrips isolated before work commenced. An intertrip signal was sent which tripped the circuit breaker for this line at Wodonga.	isolated intertrip links for this circuit.	20/06/06	19:52:00	20/06/06	10:59:00	O60	0.1	3rd party outage		

	-	1 0000 5001				10		10.00.07					
			pilot cable at Vera St, Mayfield. Circuit Breaker for this line tripped. He did dial before digging and EnergyAustralia gave clearance to dig. No loss of load.	either cable was located in the wrong place or contractor identified wrong cable location.									
		3-2006-F0176	auto-synchronous circuit current transformers caused unplanned		21/06/06	10:37:00	21/06/06	10:42:00	U1		0.08	3rd party outage	
	-	3-2006-F0179	busbar on Unit 11 at their Murray power station caused unplanned	17kV Busbar.	26/06/06	22:11:00	27/06/06	19:00:00	M11		20.82	3rd party outage	
Ave	rage outage	3-2006-F0208	A blown voltage transformer secondary fuse on Snowy Hydro Ltd's Transformer Group at Murray 2 power station caused their protection to operate resulting in unplanned tripping of circuit breakers controlling this line at TransGrid's Murray substation. No generation in-service at time of trip.	Voltage Transformer secondary fuse.	22/11/06	13:24:00	22/11/06	22:05:00	M11		2.68	3rd party outage	
resto	oration time	1-2006-F0177	Lightning/Storm.		13/11/06	19:21:00	13/11/06	19:21:00	8M		0	3rd party outage	
			caused 760MW of load loss which included 910,90F,241 feeders to their Green Park and Sefton substations which resulted in a system over- voltage. TransGrid's circuit breakers at Beaconsfield West substation controlling cable 41 opened following cable 41 protection detecting the system over-voltage. Investigation showed the cable 41 protection operated correctly.	system caused system over- voltage.								3rd party outage	
			of line 991 in very hot and windy weather. Eight (8) poles on the line were found burnt down or damaged. Vegetation in the easement is manner including regular inspections. TransGrid is not responsible for vegetation adjacent to easements, except where trees could fall and damage lines.								34.93	Force Majeure	
		2-2006-F0117	temporary protection at their West	their West Liverpool	17/12/06	16:05:00	17/12/06	19:09:00		Tx No3 Liverpool	3.07	3rd party outage	
		5 Average outage restoration time	6 Average outage restoration time 1-2006-F0177 2-2006-F0105	5 Average outage restoration time 3-2006-F0176 Snowy Hydro Ltd staff working on auto-synchronous circuit current transformers caused unplanned opening of circuit breakers controlling this line at Transgrid's Upper Tumut substation. Generator Unit 2 was inservice at 80MW at the time. 3-2006-F0179 A fault on Snowy Hydro Ltd's 17kV busbar on Unit 11 at their Murray power station caused unplanned opening of circuit breakers controlling this line at TransGrid's Murray substation. Snowy Hydro Ltd's 17kV busbar on Unit 11 at their Murray power station caused their protection to operate resulting in unplanned opening of circuit breakers controlling this line at TransGrid's Murray substation. Snowy Hydro Ltd's Transformer Group at Murray 2 power station caused their protection to operate resulting in unplanned tripping of circuit breakers controlling this line at TransGrid's Murray substation. No generation in-service at time of trip. 3-2006-F0105 A fault in EnergyAustralia's system caused 760MW of load loss which included 910,907,241 feeders to their Green Park and Setton substation controlling cable 41 optened following cable 41 protection detecting the system over-voltage. Investigation showed the cable 41 protection operated correctly. 3-2006-F0010 A bustifire was present along a length of line 991 in very hot and windy weather. Eight (8) poles on the line were found burnt down or damaged. Vegetation in the easement is managed in a regulated and timed manner including regular inspections. TransGrid is not responsible for vegetation adjacent to easements, except where trees could fail and damage lines. 2-2006-F0117 Integral Energy staff were removing temporary protection at their West Liverpol substation following service voltage testin	Average outage restoration time 3-2006-F0176 Snowy Hydro Ltd staff working on auto-synchronic scrulic current transformers caused unplanned opening of circuit breakers or circuit current transformers caused unplanned opening of circuit breakers controlling this line at Transgrid's Upper Tumut substation. Generation Unit 2 vans inservice at 80MW at the time. Snowy Hydro Ltd's taff working on auto-synchronous current transformers caused unplanned opening of circuit breakers controlling this line at Transgrid's Upper Tumut substation. Generation Unit 2 vans inservice at 80MW at the time. Fault on Snowy Hydro Ltd's 17XV Busbar. 3-2006-F0179 A fault on Snowy Hydro Ltd's 17XV busbar on Unit 1 at their Murray power station caused unplanned opening of circuit breakers controlling this line at Transgrid's Upper Tumut substation. Snowy Hydro Ltd's 17XV Busbar. Fault on Snowy Hydro Ltd's 17XV Busbar. 3-2006-F0179 A fault in Energy Australia's substation. Snowy Hydro Ltd's time at Transformer secondary fuse on Snowy Hydro Ltd's boogram at time of trip. Snowy Hydro Ltd's blown secondary fuse. 3-2006-F0177 Lightning/Storm. Lightning on Queensland's portion of line. 2-2006-F0177 Lightning/Storm. Lightning on Queensland's portion of line. 2-2006-F0170 A fault in EnergyAustralia's system caused 760WW of load loss which included 910.097.21 feeders to their voltage. TransGrid's circuit breakers at Beaconsfield West substation which result of a system over- voltage. ThransGrid's circuit breakers at Beaconsfield West substation showed the cable 4 1 protection operated connectly. A fault in EnergyAus	Average outage restoration time Second - F0176 Lighting/Storm. Lighting on Queensland's system cancer view of the ease of the system cancer view of the ease of the system cancer distance of the system cancer view of the system view view of the system cancer view of the system view	Average outage restoration time 3-2006-F0176 Allouin Vision Show Yinghot Life Show And Show Yinghot Life Show Yinghot Life Show Show Yinghot Life Show Yinghot Life Sho	Average outage restoration time 1-2006-F0170 Afault on Snowy Hydro Ltd's thread to the function densities of the end of	Average outage restoration time 1-2006-F0176 Snowly Hydro Lid safe average out-synchronous around current transformers caused upplaned opening of circuit breakers controlling this line at Transgrid Upper Tururt substation. Generator Unit 2 was nearcice at GMW at the line. Fault on Snowly Hydro Lid staff error. 2108006 10.37:00 2108006 10.42:00 3-2006-F0176 Snowly Hydro Lid staff error. 2108006 10.37:00 2108006 10.42:00 3-2006-F0176 Snowly Hydro Lid staff error. 2108006 10.37:00 2106006 10.42:00 3-2006-F0176 Snowly Hydro Lid staff error. 2800800 22:11:00 27:06:06 18:00:00 3-2006-F0176 A fault on Snowly Hydro Lid staff error. 28:00:00 22:11:00 27:06:06 18:00:00 3-2006-F01268 A blown voltage transformer transformer Group at Murray substation. No generation SMW time of tip. Snowly Hydro Lid's blown secondary fuse on Snowly Hydro Lid's blown secondary fuse on Snowly Hydro Lid's blown to scondary fuse. 22:11:00 13:11:08 19:21:00 3-2006-F0108 A blown voltage transformer transformer Group at Murray substation. No generation in-service at time of trans transford Liggers to mark restore of transformer scondard murray substation. No generation in the service at time of tip. 13:11:06 19:21:00	Average outgo residuation to resolution the resolution to resolution the resolution to resolution to reso	Average outget Sport at the art was a twing the origination of the service outside of the origination of the service outside o	Average outlage about the law Event St, Mighted Cripping of Control Research trains in England Cripping of Control Research trains in England (Birk Nets of Law Control English Nets of Law Contro English Nets Of Law	Nertice Image: Second Process

NOTES:

This spreadsheet should include a list all events that are proposed for exclusion. This is consistent with the reporting information requirements contained in section 4.2 of the AER's Service Standards Guidelines.

Each proposed exclusion event should include a description of the event, a description of the impact and quantification of the impact on the network and performance. The descriptive elements should also include reasons for the exclusion request making reference to the "Exclusion Definitions" tab.

Each exclusion should be entered onto one row for each measure. Where one exclusion event applies to more than one measure, the relevant details of the event should be entered under each of the measure headings.

The TNSP must provide details for all events requested for exclusion in this template. In the event that the TNSP wishes to provide further details of an exclusion, this should be provided with the TNSP's performance report. The source of information should be referenced in this template.

Green cells - input description impact

Orange cells - input reasons for the exclusion request

TRANSGRID- S1 - Transmission line availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transmission line availability Measure Weighting		99.00% -0.20%	99.50% 0.00%	99.70% 0.20%	99.90% 0.20%
		-0.2078	0.00 /8	0.2070	0.2070

Performance Formulae			Formul	lae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.002000					Where:		Availability	<	99.00%	-0.002000	-0.002000
	=	0.400000	х	Availability	+	-0.398000	99.00%	≤	Availability	≤	99.50%	0.000253	0.000263
	=	1.000000	х	Availability	+	-0.995000	99.50%	≤	Availability	≤	99.70%	0.000631	0.000658
	=	0.002000					99.70%	<	Availability			0.002000	0.002000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)	
Transmission line availability	=	99.563127%	99.565846%	
S-Factor Result	=	0.063127%	0.065846%	

NOTES:

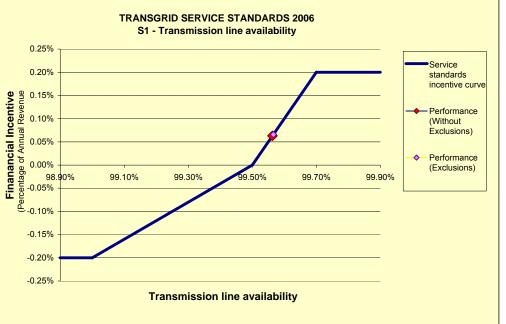
This sheet will automatically update based on data in input sheets.

Blue cells show TransGrid's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.8.1 of revenue cap]

Yellow/Green cells (Rows 8:11) show TransGrid's performance formulae and related formula conditions based on performance targets and measure weightings

Pink cells (C14, C15) show TransGrid's performance outcomes without any events excluded from performance data

Orange cells (D14, D15) show TransGrid's performance outcomes with events excluded from performance data



TRANSGRID- S2 - Tranformer availability

Performance Targets	Graph start	Collar	Target	Сар	Graph end
Transformer availability		98.20%	99.00%	99.50%	100.00%
S2		-0.15%	0.00%	0.15%	0.15%

Performance Formulae			Formula	ae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.001500					Where:		Availability	<	98.20%	-0.001500	-0.001500
	=	0.187500	х	Availability	+	-0.185625	98.20%	≤	Availability	≤	99.00%	-0.000304	-0.000304
	=	0.300000	х	Availability	+	-0.297000	99.00%	≤	Availability	≤	99.50%	-0.000487	-0.000486
	=	0.001500					99.50%	<	Availability			0.001500	0.001500

Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)
Transformer availability =	98.837670%	98.837889%
S-Factor =	-0.030437%	-0.030396%

NOTES:

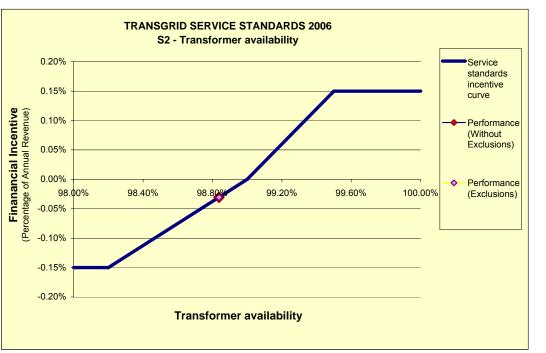
This sheet will automatically update based on data in input sheets.

Blue cells show TransGrid's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.8.1 of revenue cap]

Yellow/Green cells (Rows 8:11) show TransGrid's performance formulae and related formular conditions based on performance targets and measure weightings

Pink cells (C14, C15) show TransGrid's performance outcomes without any events excluded from performance data

Orange cells (D14, D15) show TransGrid's performance outcomes with events excluded from performance data



TRANSGRID- S3 - Reactive plant availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reactive plant availability		97.00%	98.60%	99.30%	100.00%
S3		-0.10%	0.00%	0.10%	0.10%

Performance Formulae			Formula	ae					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.001000					Where:		Availability	<	97.00%	-0.001000	-0.001000
	=	0.062500	x	Availability	+	-0.061625	97.00%	≤	Availability	≤	98.60%	0.000202	0.000202
	=	0.142857	х	Availability	+	-0.140857	98.60%	≤	Availability	≤	99.30%	0.000461	0.000461
	=	0.001000					99.30%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reactive plant availability	=	98.922566%	98.922566%
S-Factor	=	0.046081%	0.046081%



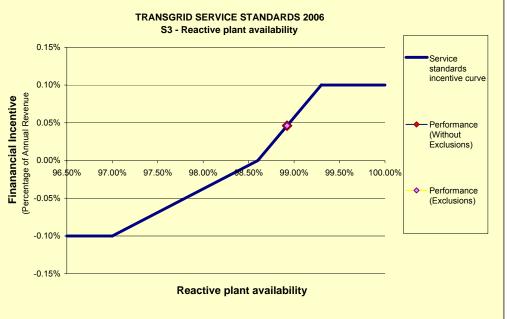
This sheet will automatically update based on data in inputs sheets.

Blue cells show TransGrid's performance targets (C4:E4) and measure weightings (C5:E5) [See Table 9.8.1 of revenue cap]

Yellow/Green cells (Rows 8:11) show TransGrid's performance formulae and related formular conditions based on performance targets and measure weightings

Pink cells (C14, C15) show TransGrid's performance outcomes without any events excluded from performance data

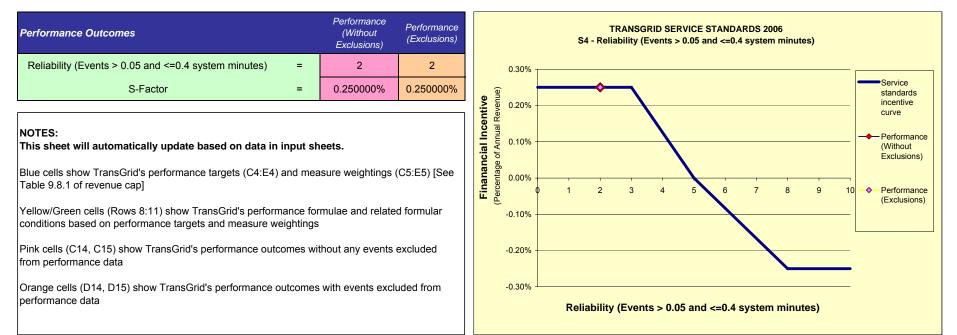
Orange cells (D14, D15) show TransGrid's performance outcomes with events excluded from performance data



TRANSGRID- S4 - Reliability (Events > 0.05 and <=0.4 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reliability (Events > 0.05 and <=0.4 system minutes)		8	5	3	
S4		-0.25%	0.00%	0.25%	

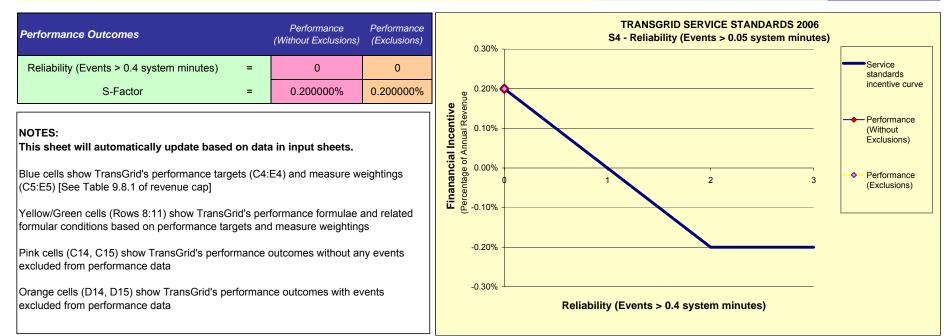
rformance Formulae Formulae							Conditions				S- Calc 1	S- Calc 2	
Performance	=	-0.002500					8	<	Reliability			-0.002500	-0.002500
	=	-0.000833	х	Reliability	+	0.004167	5	≤	Reliability	≤	8	0.002500	0.002500
	=	-0.001250	х	Reliability	+	0.006250	3	≤	Reliability	≤	5	0.003750	0.003750
	=	0.002500							Reliability	<	3	0.002500	0.002500



TRANSGRID- S5 - Reliability (Events > 0.4 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reliability (Events > 0.4 system minutes)		2	1	0	0
S5		-0.20%	0.00%	0.20%	0.20%

Performance Formulae			Formula	e					Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.002000					Where:		Reliability	>	2	-0.002000	-0.002000
	=	-0.002000	х	Reliability	+	0.002000	1	≤	Reliability	≤	2	0.002000	0.002000
	=	-0.002000	х	Reliability	+	0.002000	0	≤	Reliability	≤	1	0.002000	0.002000
	=	0.002000							Reliability	<	0	0.002000	0.002000



TRANSGRID- S6 - Average outage restoration time

Performance Targets	Graph start	Collar	Knee Bend	Target	Knee Bend	Cap	Graph end
Average outage restoration time		1800	1600	1500	1400	800	700
S6		-0.10%	-0.05%	0.00%	0.05%	0.10%	0.10%

Performance Formulae			I	Formulae				Conditions		S- Calc 1	S- Calc 2
Performance	=	-0.001000					Where:	Average time >	1800	-0.001000	-0.001000
	=	-0.000003	х	Average Time	+	0.003500	1600	≤ Average time ≤	1800	0.001357	0.001440
	=	-0.000005	х	Average Time	+	0.007500	1400	≤ Average time ≤	1600	0.003214	0.003380
	=	-0.000001	х	Average Time	+	0.001667	800	≤ Average time ≤	1400	0.000952	0.000980
	=	0.001000						Average time <	800	0.001000	0.001000

Performance Outcomes	Performance (Without Exclusions)	Performance (Exclusions)	0	.15% -	TRANSGRID SERVICE STANDARDS 2006 S6 - Average outage restoration time	
Average outage restoration time =	857	824			-	Service standards
S-Factor =	0.095235%	0.098008%		.10% +		incentive curve
NOTES: This sheet will automatically update based on Blue cells show TransGrid's performance targets weightings (C5:G5) [See Table 9.8.1 of revenue of Yellow/Green cells (Rows 8:11) show TransGrid's related formular conditions based on performance weightings Pink cells (C15, C16) show TransGrid's performa events excluded from performance data	(C4:G4) and me cap] s performance fo e targets and me	easure	Finanancial Incen (Percentage of Annual F 0 ⁻ 0	.05% - .00% - 70 .05% - .10% -		 Performance (Without Exclusions) Performance (Exclusions)
Orange cells (D15, D16) show TransGrid's perfor excluded from performance data	mance outcome	s with events			Average outage restoration time	

TRANSGRID - Revenue calculation

Revenue cap information	
Base revenue	\$432,750,000
Base year	2004-05
X-factor	-2.93%
Decision CPI	2.49%

Annual revenue adjusted for CPI	Mar-04	Mar-05	Mar-06
СРІ	144.1	147.5	151.9
	2004-05	2005-06	2006-07
AR	\$432,750,000	\$455,939,364	\$483,297,797

Calendar year revenue	2004	2005	2006
Revenue	\$216,375,000	\$444,344,682	\$469,618,580

NOTES:

This sheet will automatically update based on data on input sheets.

Grey cells show calendar year revenue

Green cells are for formula

Blue cells are a drop down menu

20061213 - Final Templates - TransGrid.xls Revenue Calculation

TRANSGRID- Performance outcomes 2006

Revenue calendar year 2006 (\$)		\$469,618,580							
		Torget	Performance without exclusions		Performance with exclusions		Impact of		
Performance measure	S	Target -	Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	exclusions
Transmission line availability	S1	99.500000%	99.563127%	0.063127%	\$296,454	99.565846%	0.065846%	\$309,224	0.002719%
Transformer availability	S2	99.000000%	98.837670%	-0.030437%	-\$142,937	98.837889%	-0.030396%	-\$142,744	0.000041%
Reactive plant availability	S3	98.600000%	98.922566%	0.046081%	\$216,404	98.922566%	0.046081%	\$216,404	0.000000%
Reliability (Events > 0.05 and <=0.4 system minutes)	S4	5	2	0.250000%	\$1,174,046	2	0.250000%	\$1,174,046	0.000000%
Reliability (Events > 0.4 system minutes)	S5	1	0	0.200000%	\$939,237	0	0.200000%	\$939,237	0.00000%
Average outage restoration time	S6	1500	857	0.095235%	\$447,240	824	0.098008%	\$460,263	0.002773%
TOTALS				0.624005%	\$2,930,444		0.629539%	\$2,956,430	0.005533%

NOTE:
This choot will automatically

This sheet will automatically update based on data in input sheets.

Grey cell (C3) shows relevant calendar year revenue

Green cells (C7:C12) show performance measure targets

Pink cells (Rows D:F) show performance, s-factor results and financial incentive without exclusions

Orange cells (Rows G:I) show performance, s-factor results and financial incentive with exclusions

Blue cells show the impact of exclusions on revenue

Aggregate outcome 2006	
S-factor	0.629539%
Bonus (penalty)	\$2,956,430
Financial year to affect revenue	2007-08

TRANSGRID - Defined exclusions

No.	Measure 1- Transmission Circuit Availability		
	Defined exclusions	Further description of exclusion	Reference
1.1	Unregulated transmission assets		Service standards guidelines p.4
1.2	3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
	Force majeure Transient interruptions less than one (1) minute		Service standards guidelines p.4 Historical exclusion applied by TransGrid
1.5	Switching to control voltages and fault levels	Switching to control voltages and fault levels within required limits, both as directed by NEMMCO and where NEMMCO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if	Historical exclusion applied by TransGrid
1.6	The opening of one end of a transmission circuit	required) The opening of only one end of a transmission circuit (eg where the transmission circuit remains energised and available to carry power with immediate manual or automatic return to service).	Historical exclusion applied by TransGrid
	Measure 2- Transformer Availability		
	Defined exclusions	Further description of exclusion	Reference
2.1	Unregulated transmission assets		Service standards guidelines p.4
2.2	3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
2.3	Force majeure		Service standards guidelines p.4
2.4	Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
2.5	Auxiliary transformers		Historical exclusion applied by TransGrid
2.6	Static Var Compensator transformers	Static Var Compensator Transformers (which are counted as part of the SVC)	Historical exclusion applied by TransGrid
2.7	Switching to control voltages and fault levels	Switching to control voltages and fault levels within required limits, both as directed by NEMMCO and where NEMMCO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required)	Historical exclusion applied by TransGrid
	The opening of only one or both sides of a transformer for operational purposes	The opening of only one or both sides of a transformer for operational purposes, such as to control losses, fault levels, incompatibility of tap charges etc but where the transformer remains available to carry power on immediate manual or	Historical exclusion applied by TransGrid
2.9	Transformer not switched in but available for service	automatic return to service. The period where a transformer is made available for service, but not switched in, at the end of each day of a multi-day planned outage.	Historical exclusion applied by TransGrid
	Measure 3- Reactive Plant Availability		
	Defined exclusions	Further description of exclusion	Reference
3.1	Unregulated transmission assets		Service standards guidelines p.4
3.2	3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.4
	Force majeure Transient interruptions less than one (1) minute		Service standards guidelines p.4 Historical exclusion applied by TransGrid
3.5	Capacitor banks and reactors operating less than 66 kV		Historical exclusion applied by TransGrid
3.6	Reactive plant switched out by System Operations	Reactive plant switched out by System Operations, or left out after repairs that make it available for service for operational purposes	Historical exclusion applied by TransGrid

Measure 4- Events > 0.05 system mins (No.)	
Defined exclusions Further description of exclusion	Reference

4.1	Unregulated transmission assets		Service standards guidelines p.5
4.2	3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage, customer installation (TNSP to provide list)	Service standards guidelines p.5
4.3	Planned outages		Service standards guidelines p.5
4.4	Force majeure		Service standards guidelines p.6
4.5	Transient interruptions less than one (1) minute		Historical exclusion applied by TransGrid
4.6	Where TransGrid protection operates correctly due to a fault on a customer's or a third party system		Historical exclusion applied by TransGrid
4.7	Pumping station supply interruption	Pumping station supply interruptions (such as Barnard River, Burrawang, Bendeela, Kangaroo Valley and Jindabyne). These interruptions were excluded from historical data used for target setting as there being no effective loss of supply due to their ability to obtain the pumping load at a later time after restoration of supply	Historical exclusion applied by TransGrid
4.8	Outage caused by customer's own control system during a transient voltage fluctuation	Where a customer's own control/protection system trips their plant during a transient voltage fluctuation or other quality of supply event, whether caused by TransGrid or otherwise	Historical exclusion applied by TransGrid
	Measure 5 - Events > 0.40 system mins (No.)		
	Defined exclusions	Further description of exclusion	Reference
5.1	Unregulated transmission assets		Service standards guidelines p.5
5.2	3rd party outage	Any outages shown to be caused by a fault or other event on a '3rd party system' e.g. intertrip signal, generator outage,	Service standards guidelines p.5
5.3		customer installation (TNSP to provide list)	Service standards guidennes p.5
0.0	Planned outages		Service standards guidelines p.5
	Planned outages Force majeure		
5.4			Service standards guidelines p.5
5.4 5.5	Force majeure		Service standards guidelines p.5 Service standards guidelines p.5
5.4 5.5 5.6	Force majeure Transient interruptions less than one (1) minute Where TransGrid protection operates correctly due to a fault on a		Service standards guidelines p.5 Service standards guidelines p.5 Historical exclusion applied by TransGrid

	Measure 6 - Average Outage Restoration Time		
	Defined exclusions	Further description of exclusion	Reference
6.1	Transient interruptions less than one (1) minute		Service standards guidelines p.6
6.2	Unregulated transmission assets		Service standards guidelines p.6
6.3	Planned outages		Service standards guidelines p.6
6.4	Outage duration longer than 7 days	The portion of outage duration longer than 7 days (168 hours.) That is, each individual outage is capped at 7 days.	TransGrid revenue cap p.173
6.5	Force majeure		Service standards guidelines p.6
6.6	3rd party outage		Historical exclusion applied by TransGrid
6.7	Outages for capacitor banks and reactors operating at <66kV	customer installation, customer request or NEMMCO direction	Historical exclusion applied by TransGrid