

## TEMPLATE EXPLANATION



This template must be used by the TNSP to report service performance information for the previous calendar year.

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

Purple worksheets '**S1**' to '**S6**' are the s-factor results based on the performance inputs from the 'Inputs - Performance' worksheet.

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' worksheets.

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

## ElectraNet - SERVICE STANDARDS PERFORMANCE

Performance Inputs								
S	Performance parameter	Collar	Target	Cap	Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions)	Checksum
S1	Total transmission circuit availability	99.02%	99.52%	99.68%	0.30%	98.622468%	99.295376%	0.00
S2	Critical circuit availability – peak	97.36%	99.12%	99.96%	0.10%	99.510938%	99.516229%	
S3	Critical circuit availability – non-peak (zero weighting)	98.25%	99.37%	99.87%	0.00%	99.772798%	99.772798%	
S4	Loss of supply event frequency ( >0.05 system minutes )	5	4	2	0.20%	2	2	0.00
S5	Loss of supply event frequency ( >0.2 system minutes )	2	1	0	0.20%	1	1	
S6	Average outage duration (minutes)	323	203	83	0.20%	38.94	43.25	0.00

Revenue Determination Inputs	
TNSP:	ElectraNet
STPIS version:	March, 2011
Regulatory Determination	2013/14 - 2017/18
Base Year Allowed Revenue	\$ 284,000,000
Base Year	2013–14
X-factor	-2.69%
Commencement of regulatory year	1-Jul-13

Other inputs	
Assessment Period	2H 2013
Financial year to affect revenue:	2014/15
Date prepared:	
Revision date:	
Circuit information	
Number of critical circuits	21
Number of non-critical circuits	89
Total circuits	110

Average outage duration information - performance without exclusions	
Number of connection point events	18
Total unplanned outage duration (system minutes)	701

Average outage duration information - performance with exclusions	
Number of excluded connection point events	2
Total unplanned outage duration (system minutes)	692
Total number of connection point events	16

Other Inputs						
Annual revenue adjusted for C	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
CPI	102.4					

**NOTE:**

Pink cells - Performance without exclusions input cells

Orange cells - Performance with exclusions input cells

Green cells - Other inputs

Blue cells - Inputs sourced from the revenue determination

Performance is based on a calendar year or the proportion of a calendar year that applies in each regulatory period.

### ElectraNet - Proposed exclusions availability

CIRCUIT AVAILABILITY	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	Total hours unavailable	Circuits affected	Reactive plant transformer	Quantitative impact	Reasons for exclusion request	Further references	Supporting Documentation
Name of any circuit availability assessment	Name of the event	Detail of the event. Such as: the action of any third parties, the actions of the high voltage equipment or equipment	A description of the cause of the event	Start date and time of event	End date and time of event				Name of circuits or part affected	Name of any equipment affected	Impact of exclusion event on availability (see Exclusion definition table, Ex. Exclusion 1.2 Third party)	Full details of the reasons for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition table, Ex. Exclusion 1.2 Third party)	A TNSP may provide further details of an exclusion event, TNSP to provide reference.	
S1	SOUTH EAST - MAYNOR	2981 - PROTECTIVE MALOPERATION	PLANT FAILURE / SECONDARY	16/07/2013	10:43:00	16/07/2013	12:47:00	1.74	SOUTH EAST - MAYNOR	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	PROTECTION MALOPERATION	2983 Event_Investigation_T
S1	WATERLOO EAST - YEVEN	2983 - WATERLOO WIND FARM CABLE FAULT	3RD PARTY	21/07/2013	19:05:00	21/07/2013	20:25:00	1.69	WATERLOO EAST	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	WATERLOO WIND FARM CABLE FAULT	S5P 50745 Approved.pdf
S1	NEW OSBORNE - TIFCONFIGURE	TORRENS A SWITCH	CUSTOMER REQUEST	21/07/2013	07:59:00	21/07/2013	11:10:00	3.18	NEW OSBORNE - TIFCONFIGURE	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR BLACK START TEST VIA QUARANTINE POWER STATION	S5P 50745 Approved.pdf
S1	NEW OSBORNE - TIFCONFIGURE	TORRENS A SWITCH	CUSTOMER REQUEST	21/07/2013	07:59:00	21/07/2013	11:10:00	3.18	NEW OSBORNE - TIFCONFIGURE	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR BLACK START TEST VIA QUARANTINE POWER STATION	S5P 50745 Approved.pdf
S1	TIPS A - TORRENS	INADVERTENT TRIP BY ORIGIN PERSONNEL	ENVIRONMENTAL / STORM	23/07/2013	09:33:00	23/07/2013	10:09:00	0.66	TIPS A - TORRENS	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	INADVERTENT TRIP BY ORIGIN PERSONNEL	2985 Event_Investigation_T
S1	HUMMOCKS - SNOV	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	23/07/2013	01:31:00	23/07/2013	01:31:00	0.00	HUMMOCKS - SNOV	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	HUMMOCKS - SNOV	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	23/07/2013	01:17:00	23/07/2013	01:17:00	0.00	HUMMOCKS - SNOV	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	DALRYMPLE - WATTL	TRIP CAUSED BY GENERATOR	3RD PARTY	28/07/2013	01:17:00	28/07/2013	07:55:00	6.63	DALRYMPLE - WATTL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE CAUSED BY WATTL POWER GENERATING > 60MW	Event 2991 - Investigation 5
S1	DALRYMPLE - WATTL	MALOPERATION DUE TO COMMUNICATIONS FAILURE	PLANT FAILURE / SECONDARY	11/08/2013	23:01:00	12/08/2013	00:11:00	1.17	DALRYMPLE - WATTL	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	OUTAGE CAUSED BY COMMUNICATIONS FAILURE	
S1	NEW OSBORNE - OCISOLATION FOR OCPL	CUSTOMER REQUEST	CUSTOMER REQUEST	19/08/2013	09:51:00	19/08/2013	10:04:00	0.22	NEW OSBORNE - OCISOLATION FOR OCPL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR OCPL TO PERFORM MAINTENANCE	S5P 51034 Approved.pdf
S1	NEW OSBORNE - OCISOLATION FOR OCPL	CUSTOMER REQUEST	CUSTOMER REQUEST	26/08/2013	11:32:00	26/08/2013	08:11:00	16.46	NEW OSBORNE - OCISOLATION FOR OCPL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR OCPL TO PERFORM MAINTENANCE	S5P 50887 Approved.pdf
S1	SNUGGERY - MAYUR	OUTAGE TO REPAIR ISOLATORS	ISOLATORS	27/08/2013	08:10:00	27/08/2013	20:30:00	12.53	SNUGGERY - MAYUR	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	OUTAGE TO REPAIR ISOLATORS	
S1	PARA - BUNGAMA	27OUTAGE FOR SNOTOWN WIND	PROJECT WORK	6/09/2013	07:01:00	14/09/2013	16:09:00	201.13	PARA - BUNGAMA	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR WINDFARM CONNECTION	S5P 51116 Approved.pdf
S1	HUMMOCKS - KADIN	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	12/09/2013	10:25:00	12/09/2013	10:25:00	0.00	HUMMOCKS - KADIN	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	HUMMOCKS - SNOV	OUTAGE < 1 MINUTE	ENVIRONMENTAL / LIGHTNING	12/09/2013	20:36:00	12/09/2013	20:36:00	0.00	HUMMOCKS - SNOV	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO LIGHTNING	
S1	MURRAYLINK REDCL	SUPERVISORY SHUTDOWN FOR	CUSTOMER REQUEST	16/09/2013	14:16:00	17/09/2013	19:40:00	29.40	MURRAYLINK REDCL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR GRAYLING PERSONNEL	S5P 8301 Approved.pdf
S1	DAVENPORT - NORTHISOLATION FOR ALINTA	FOR INSULATION	CUSTOMER REQUEST	17/09/2013	10:09:00	17/09/2013	15:04:00	4.92	DAVENPORT - NORTHISOLATION FOR ALINTA	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA ENERGY	S5P 50246 Approved.pdf
S1	BERRI - NORTH	WESTOUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	30/09/2013	15:22:00	30/09/2013	15:22:00	0.00	BERRI - NORTH	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	SCADAM - MURRAY	OUTAGE OF RTU AFTER SUCCESSFUL	ENVIRONMENTAL / STORM	30/09/2013	15:22:00	30/09/2013	16:30:00	1.10	SCADAM - MURRAY	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	SCADAM / COMMS FAILURE	
S1	ANGAS CREEK - MAN	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	4/10/2013	09:54:00	4/10/2013	09:54:00	0.00	ANGAS CREEK - MAN	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	DAVENPORT - NORTH	OUTAGE FOR ALINTA	CUSTOMER REQUEST	9/10/2013	13:20:00	9/10/2013	17:03:00	3.72	DAVENPORT - NORTH	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA ENERGY	S5P Alinta 09 Oct 2013 at 13
S1	MURRAYLINK REDCL	OUTAGE FOR APA PERSONNEL	CUSTOMER REQUEST	13/10/2013	06:53:00	13/10/2013	17:22:00	10.48	MURRAYLINK REDCL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR APA PERSONNEL	S5P 51265 Approved.pdf
S1	LADBROKE GROVE - OUTAGE ON CUSTOMER ASSET	PROTECTION MAINTENANCE	PROTECTION MAINTENANCE	14/10/2013	08:15:00	16/10/2013	15:34:00	55.32	LADBROKE GROVE	N/A	N/A	1.2 3RD PARTY OUTAGES	UNIT MAINTENANCE FOR ORIGIN	S5P 50087 Approved.pdf
S1	PELCAN POINT - PEL	OUTAGE FOR INTERNATIONAL POWER	CUSTOMER REQUEST	14/10/2013	09:57:00	14/10/2013	10:34:00	5.60	PELCAN POINT - PEL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR INTERNATIONAL POWER	S5P 51150 Approved.pdf
S1	YADNARIE - MT MIL	OUTAGE FOR TRANSFORMER AND PLANT SERVICE	TRANSFORMERS	22/11/2013	09:11:00	23/11/2013	12:48:00	27.52	YADNARIE - MT MIL	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	OUTAGE FOR TRANSFORMER AND PLANT SERVICE	
S1	MURRAYLINK REDCL	SUPERVISORY SHUTDOWN FOR	CUSTOMER REQUEST	23/11/2013	08:36:00	23/11/2013	16:21:00	4.73	MURRAYLINK REDCL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR GRAYLING PERSONNEL	S5P 8301 Approved.pdf
S1	PARA - BLYTH	WESTOUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	27/12/2013	16:51:00	27/12/2013	16:51:00	0.00	PARA - BLYTH	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	MURRAYLINK REDCL	OUTAGE FOR APA PERSONNEL	CUSTOMER REQUEST	14/12/2013	09:00:00	14/12/2013	09:00:00	0.00	MURRAYLINK REDCL	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR APA PERSONNEL (NO OUTAGE TIME RECORDED)	
S1	DAVENPORT - BUNG	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	17/12/2013	16:44:00	17/12/2013	16:44:00	0.00	DAVENPORT - BUN	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	S5P 8301 Approved.pdf
S1	HUMMOCKS - SNOV	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	17/12/2013	08:52:00	17/12/2013	08:52:00	0.00	HUMMOCKS - SNOV	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	SLEAFORD - TORM	LITRIP CAUSED BY LIGHTNING / STORM	ENVIRONMENTAL / STORM	17/12/2013	03:53:00	17/12/2013	10:57:00	7.07	SLEAFORD - TORM	N/A	N/A	2.1 UNREGULATED TRANSMISSION ASSET	TRIP CAUSED BY LIGHTNING / STORM	
S1	WHYALLA - PERKIN	OUTAGE < 1 MINUTE	ENVIRONMENTAL / LIGHTNING	17/12/2013	15:44:00	17/12/2013	15:44:00	0.00	WHYALLA - PERKIN	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	BERRI - NORTH	WESTOUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	21/12/2013	20:15:00	21/12/2013	20:15:00	0.00	BERRI - NORTH	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	ROBERTSTOWN - N	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	7/12/2013	05:45:00	7/12/2013	05:45:00	0.00	ROBERTSTOWN - N	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	DAVENPORT - NORTHISOLATION FOR ALINTA	FOR MAINTENANCE	CUSTOMER REQUEST	9/12/2013	08:49:00	9/12/2013	12:19:00	99.50	DAVENPORT - NOR	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA PERSONNEL	S5P 51550 Approved.pdf
S1	DAVENPORT - BUNG	OUTAGE < 1 MINUTE	ENVIRONMENTAL / STORM	19/12/2013	14:22:00	19/12/2013	14:22:00	0.00	DAVENPORT - BUN	N/A	N/A	TRANSIENT INTERRUPTIONS LESS THAN ONE (1) MINUTE	OUTAGE DUE TO STORM / WIND	
S1	DAVENPORT - NORTHISOLATION FOR ALINTA	CUSTOMER REQUEST	CUSTOMER REQUEST	23/12/2013	09:31:00	23/12/2013	14:07:00	4.16	DAVENPORT - NOR	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA PERSONNEL	S5P Alinta 30 Dec 2013 at 21
S1	DAVENPORT - NORTHISOLATION FOR ALINTA	CUSTOMER REQUEST	CUSTOMER REQUEST	23/12/2013	14:42:00	23/12/2013	15:22:00	0.83	DAVENPORT - NOR	N/A	N/A	1.2 3RD PARTY OUTAGES	OUTAGE FOR ALINTA PERSONNEL	S5P Alinta 23 Dec 2013 at 14
S1														
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ElectraNet - Proposed exclusions - Loss of supply events

LOSS OF SUPPLY EVENT FREQUENCY		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	Maximum system demand	Demand shed and time	Quantitative impact	Reasons for exclusion request	Further references
Name of any loss of supply parameters		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 and time of event		End date and time of event		Name of circuits or plant affected	The max system demand that occurred up until the time of the event	The (MW) demand shed and the duration it was shed for.	Impact of exclusion event on LOS Parameter	Full details of the reason/s for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S4	Loss of supply event frequency ( >0.05 system minutes )													
S4														
S4														
S4														
S4														
S5	Loss of supply event frequency ( >0.2 system minutes )													
S5														
S5														
S5														
S5														

**NOTE:**

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion 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" worksheet.

Each exclusion should be entered onto one row for each parameter. Where one exclusion event applies to more than one parameter, 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.

**ElectraNet - Proposed exclusions - Average outage duration**

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 parameters	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 and time of event		End date and time of event		Name of circuits or plant affected		Impact of exclusion event on AOD Parameter	Impact of capped exclusion event on AOD parameter	Full details of the reason for excluding this event. Should include a reference to the defined exclusions and explain how it meets this exclusion definition (see Exclusion definition tab). Eg. Exclusion 1.2 Third party event	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	
S6	Average outage duration (minutes)													
S6		Event 2987 - Hummocks - Snowtown - Bungama 132kV line	On Tuesday 23 July 2013 at 0142 the Hummock - Snowtown - Bungama 132kV line successfully reclosed and the Hummocks TF 2 tripped. At the time SAPN were undertaking work on the Hummocks TF #1 resulting in a loss of supply to Hummocks customers. Approximately 7MW of load was lost for 4 minutes resulting in a 0.01SM event. This reduced the AOD from 5 minutes to 4.5. Approximately 24MW of generation was lost at Wattle Point Wind Farm. We are seeking to exclude this event.		23/07/2013	1:42	23/07/2013	1:46	Hummocks	3413	4	1	CUSTOMER OUTAGE PUT ENET NETWORK INTO N CONDITION FROM N-1	SOUTH AUSTRALIAN POWER NETWORKS (SAPN) REQUIRED TF1 AT HUMMOCKS TO BE TAKEN OUT OF SERVICE FOR THEIR PURPOSE. DURING THIS OUTAGE THE HUMMOCKS - SNOWTOWN BUNGAMA 132KV LINE SUCCESSFULLY RECLOSED WHILST A STORM PASSED OVER THE LINE. THIS RESULTED IN THE TRIPPING OF TF 1 AT HUMMOCKS AND HENCE CUSTOMER LOAD. AS IT WAS SAPN'S OUTAGE THAT REDUCED THE NETWORK TO N FROM N-1 CAPABILITY THIS EVENT SHOULD BE EXCLUDED FROM THE FIGURES
S6														
S6														
S6														
S6		Event 2989 - Hummocks - Snowtown - Bungama 132kV line	On Monday 29 July 2013 at 0117 the Hummock - Snowtown - Bungama 132kV line successfully reclosed and the Hummocks TF 2 tripped. At the time SAPN were undertaking work on the Hummocks TF #1 resulting in a loss of supply to Hummocks customers. Approximately 6MW of load was lost for 5 minutes resulting in a 0.01SM event. This increased the AOD from 4.5 minutes to 5. Approximately 56MW of generation was lost at Wattle point wind farm. We are seeking to exclude this event.		29/07/2013	1:17	29/07/2013	1:22	Hummocks	3413	5	1	CUSTOMER OUTAGE PUT ENET NETWORK INTO N CONDITION FROM N-1	SOUTH AUSTRALIAN POWER NETWORKS (SAPN) REQUIRED TF1 AT HUMMOCKS TO BE TAKEN OUT OF SERVICE FOR THEIR PURPOSE. DURING THIS OUTAGE THE HUMMOCKS - SNOWTOWN BUNGAMA 132KV LINE SUCCESSFULLY RECLOSED WHILST A STORM PASSED OVER THE LINE. THIS RESULTED IN THE TRIPPING OF TF 1 AT HUMMOCKS AND HENCE CUSTOMER LOAD. AS IT WAS SAPN'S OUTAGE THAT REDUCED THE NETWORK TO N FROM N-1 CAPABILITY THIS EVENT SHOULD BE EXCLUDED FROM THE FIGURES
S6														

**NOTE:**

This worksheet should include a list all events that are proposed for exclusion.

Each proposed exclusion 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" worksheet.

Each exclusion should be entered onto one row for each parameter. Where one exclusion event applies to more than one parameter, 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.

**ElectraNet - S1 - Total transmission circuit availability**

Performance Targets	Graph start	Collar	Target	Cap	Graph end
al transmission circuit availat	98.80%	99.02%	99.52%	99.68%	99.90%
Weighting	-0.30%	-0.30%	0.00%	0.30%	0.30%

Performance Formulae			Formulae				Conditions				S- Calc 1	S- Calc 2	
Performance	=	-0.003000						Availability	<	99.02%	-0.003000	-0.003000	
	=	0.600000	x	Availability	+	-0.597120	99.02%	≤	Availability	≤	99.52%	-0.005385	-0.001348
	=	1.875000	x	Availability	+	-1.866000	99.52%	≤	Availability	≤	99.68%	-0.016829	-0.004212
	=	0.003000					99.68%	<	Availability			0.003000	0.003000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
al transmission circuit availat	=	98.622468%	99.295376%
S-Factor	=	-0.300000%	-0.134774%

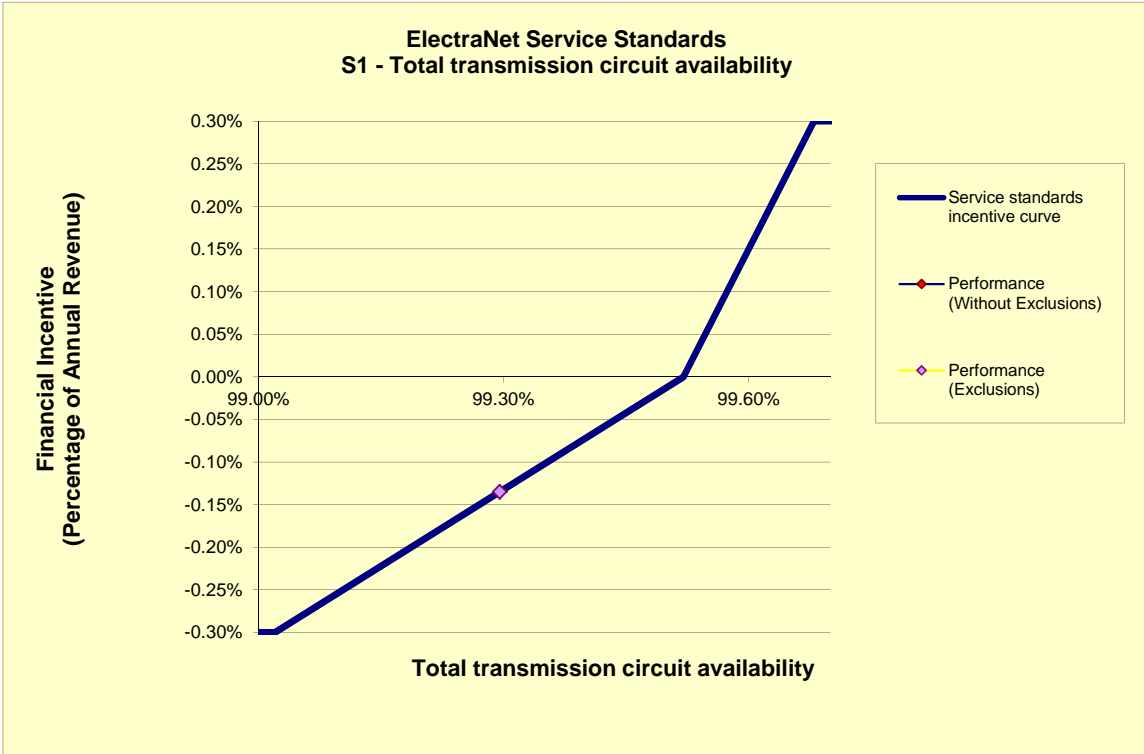
**NOTE: This sheet will automatically update based on data in input sheets**

Blue cells show the TNSP's performance targets and weightings

Yellow/Green cells show the TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show the TNSP's performance outcomes without any events excluded from performance data

Orange cells show the TNSP's performance outcomes with events excluded from performance data





ElectraNet - S2 - Critical circuit availability – peak

Performance Targets	Graph start	Collar	Target	Cap	Graph end
critical circuit availability – peak	97.20%	97.36%	99.12%	99.96%	100.20%
Weighting	-0.10%	-0.10%	0.00%	0.10%	0.10%

Performance Formulae			Formulae					Conditions			S- Calc 1	S- Calc 2	
Performance	=	-0.001000					When:	Availability	<	97.36%	-0.001000	-0.001000	
	=	0.056818	x	Availability	+	-0.056318	97.36%	≤	Availability	≤	99.12%	0.000222	0.000225
	=	0.119048	x	Availability	+	-0.118000	99.12%	≤	Availability	≤	99.96%	0.000465	0.000472
	=	0.001000					99.96%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
critical circuit availability – peak	=	99.510938%	99.516229%
S-Factor	=	0.046540%	0.047170%

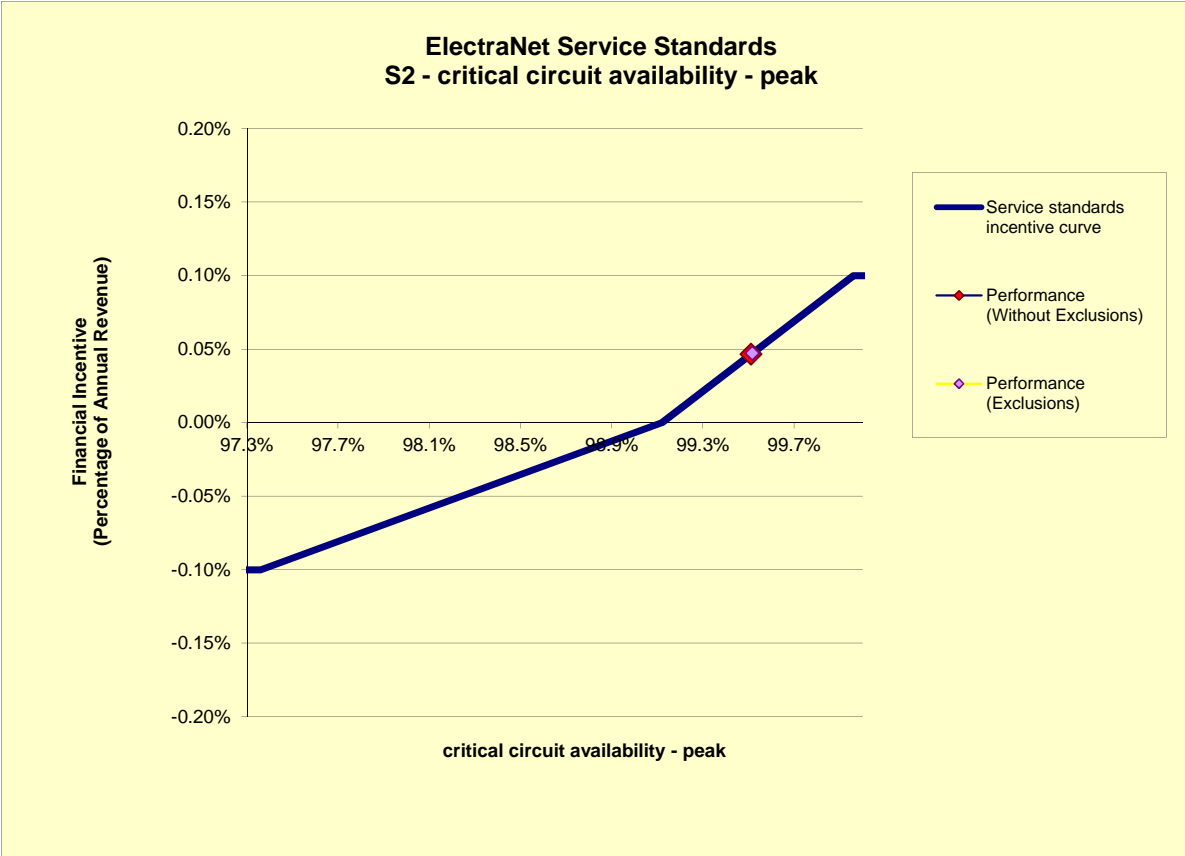
NOTE: This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

Yellow/Green cells show the TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show the TNSP's performance outcomes without any events excluded from performance data

Orange cells show the TNSP's performance outcomes with events excluded from performance data



### ElectraNet - S3 - Critical circuit availability – non-peak (zero weighting)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Circuit availability – non-peak (zero weighting)	98.10%	98.25%	99.37%	99.87%	100.10%
	0.00%	0.00%	0.00%	0.00%	0.00%

Performance Formulae	Formulae						Conditions	S- Calc 1	S- Calc 2
Performance	=	0.000000					When: Availability < 98.25%	0.000000	0.000000
	=	0.000000	x	Availability	+	0.000000	98.25% ≤ Availability ≤ 99.37%	0.000000	0.000000
	=	0.000000	x	Availability	+	0.000000	99.37% ≤ Availability ≤ 99.87%	0.000000	0.000000
	=	0.000000					99.87% < Availability	0.000000	0.000000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Circuit availability – non-peak (zero weighting)	=	99.772798%	99.772798%
S-Factor	=	0.000000%	0.000000%

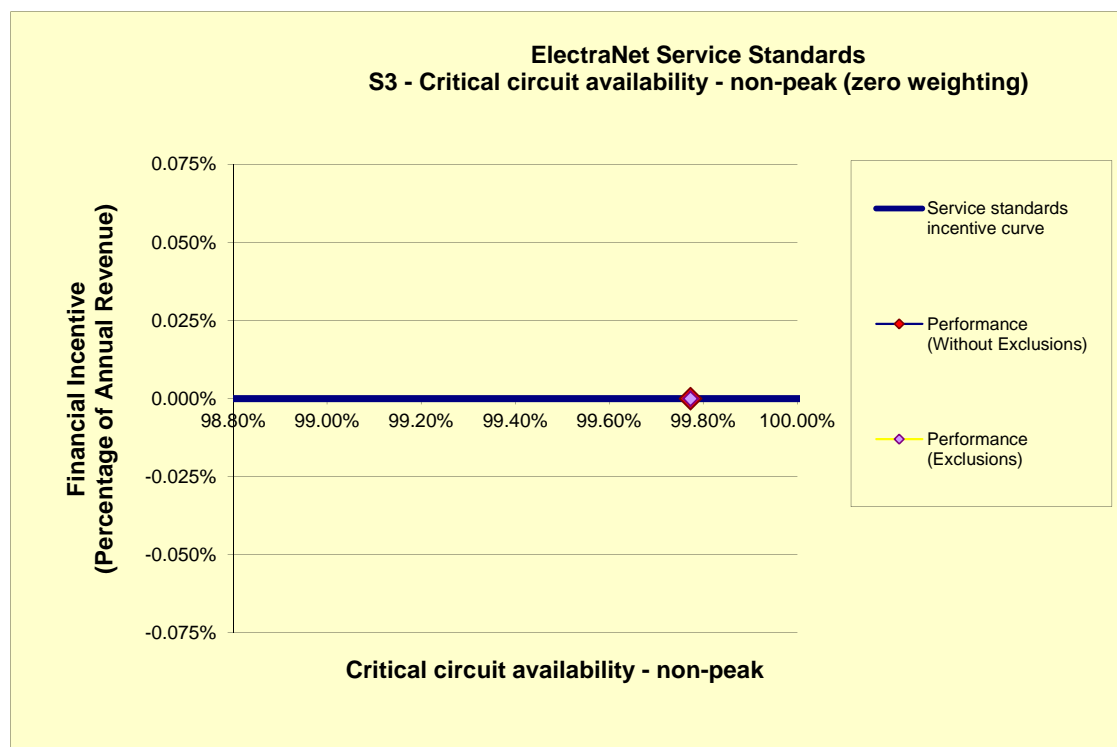
**NOTE: This sheet will automatically update based on data in input sheets**

Blue cells show the TNSP's performance targets and weightings

Yellow/Green cells show the TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show the TNSP's performance outcomes without any events excluded from performance data

Orange cells show the TNSP's performance outcomes with events excluded from performance data



ElectraNet - S4 - Loss of supply event frequency ( >0.05 system minutes )

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency ( >0.05 system minutes )	7	5	4	2	-
Weighting	-0.20%	-0.200%	0.00%	0.200%	0.20%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.002000				5 < No. of events	-0.002000	-0.002000
	=	-0.002000	x	No. of events	+	0.008000	4 ≤ No. of events ≤ 5	0.004000
	=	-0.001000	x	No. of events	+	0.004000	2 ≤ No. of events ≤ 4	0.002000
	=	0.002000				No. of events < 2	0.002000	0.002000

Loss of supply event frequency ( >0.05 system minutes )	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency ( >0.05 system minutes )	=	2	2
S-Factor		0.200000%	0.200000%

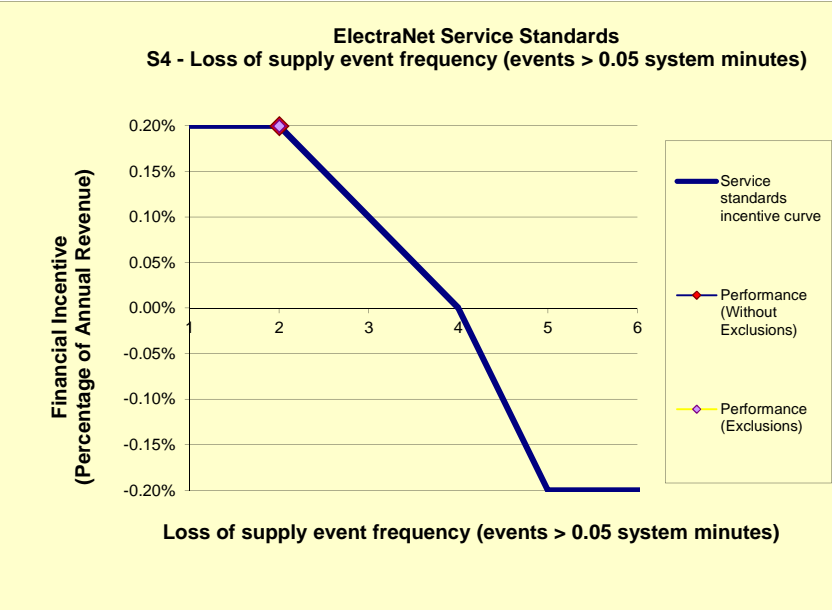
NOTE: This sheet will automatically update based on data in input sheets

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Orange cells show the TNSP's performance outcomes with events excluded from performance data



ElectraNet - S5 - Loss of supply event frequency ( >0.2 system minutes )

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency ( >0.2 system minutes )	4	2	1	0	0
Weighting	-0.20%	-0.200%	0.00%	0.200%	0.20%

Performance Formulae			Formulae				Conditions		S- Calc 1	S- Calc 2
Performance	=	-0.002000					2	< No. of events	-0.002000	-0.002000
	=	-0.002000	x	No. of events	+	0.002000	1	≤ No. of events ≤ 2	0.000000	0.000000
	=	-0.002000	x	No. of events	+	0.002000	0	≤ No. of events ≤ 1	0.000000	0.000000
	=	0.002000						No. of events = 0	0.002000	0.002000

Loss of supply event frequency ( >0.2 system minutes )	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency ( >0.2 system minutes )	=	1	1
S-Factor		0.000000%	0.000000%

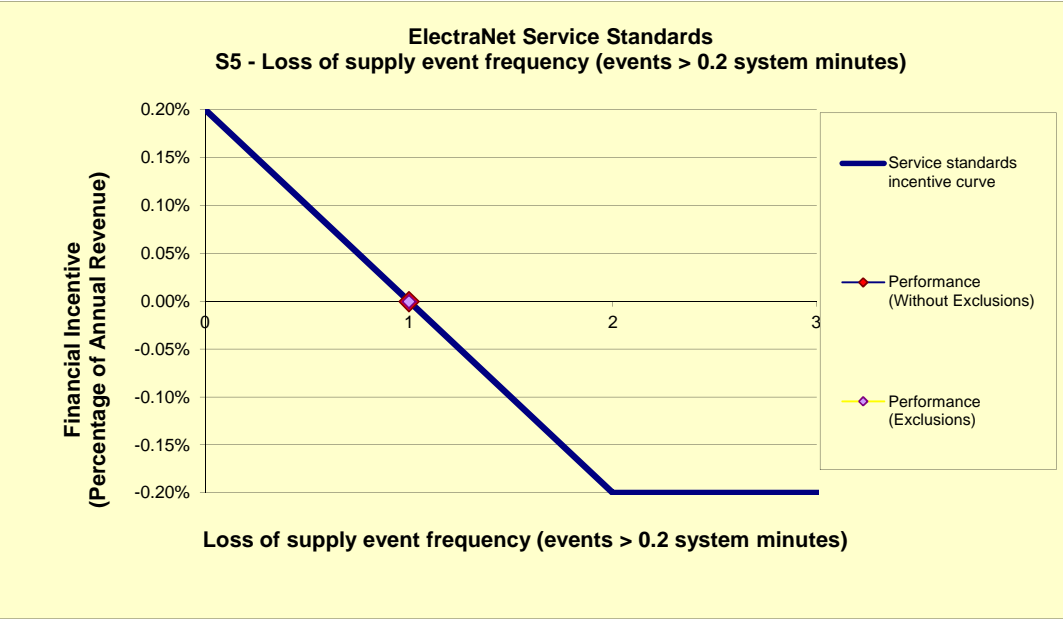
NOTE: This sheet will automatically update based on data in input sheets

Blue cells show the TNSP's performance targets and weightings

Yellow/Green cells show the TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show the TNSP's performance outcomes without any events excluded from performance data

Orange cells show the TNSP's performance outcomes with events excluded from performance data



ElectraNet - S6 - Average outage duration (minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Average outage duration (minutes)	523	323	203	83	-
Weighting	-0.20%	-0.200%	0.00%	0.200%	0.20%

Performance Formulae	Formulae						Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.002000					323 < Duration	-0.002000	-0.002000
	=	-0.000017	x	Duration	+	0.003387	203 ≤ Duration ≤ 323	0.002738	0.002666
	=	-0.000017	x	Duration	+	0.003387	83 ≤ Duration ≤ 203	0.002738	0.002666
	=	0.002000					Duration < 83	0.002000	0.002000

Average outage duration (minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration (minutes)	=	38.940000	43.250000
S-Factor		0.200000%	0.200000%

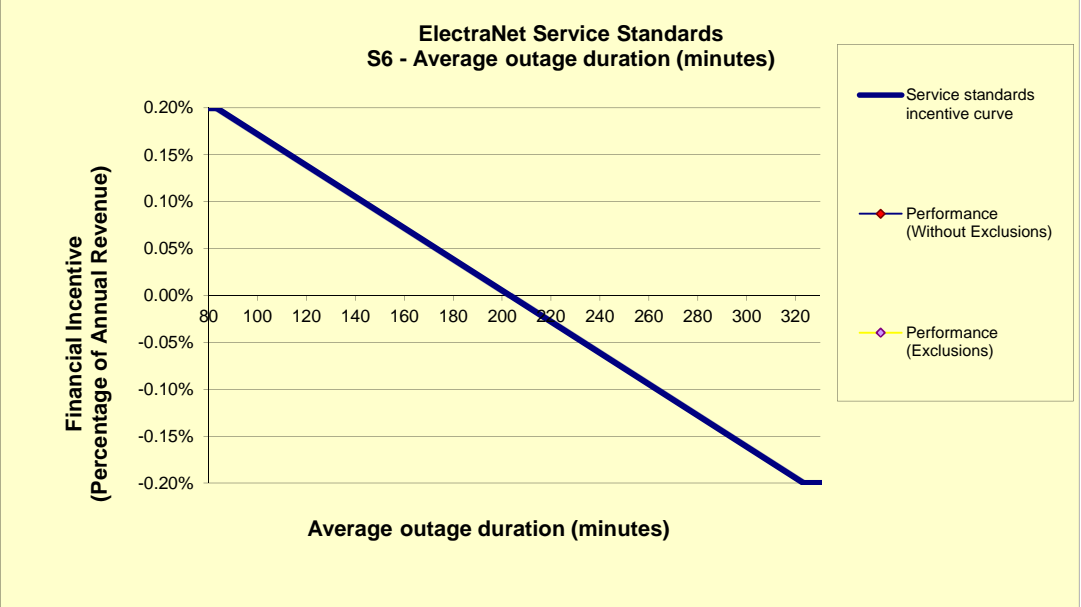
**NOTE: This sheet will automatically update based on data in input sheets**

Blue cells show the TNSP's performance targets and weightings

Yellow/Green cells show the TNSP's performance formulae and related formula conditions based on performance targets and weightings

Pink cells show the TNSP's performance outcomes without any events excluded from performance data

Orange cells show the TNSP's performance outcomes with events excluded from performance data



## ElectraNet - Revenue Calculation

X-factor from AER final decision

<i>Revenue cap information</i>	2008-09 to 2009-10
Base year allowed revenue (2008-09)	\$284,000,000
Base year	2013-14
X-factor	-2.69%
Commencement of regulatory period	1-Jul-13

<i>Annual revenue adjusted for CPI</i>	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18
CPI	102.4	-	-	-	-	-

Nominal annual revenue	2013-14	2014-15	2015-16	2016-17	2017-18
Allowed Revenue	\$284,000,000				

<i>Calendar year revenue</i>	2H 2013	2014	2015	2016	2017	2018
Revenue	\$142,000,000					

### NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

**ElectraNet - Performance outcomes**

Revenue calendar year	\$142,000,000
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S	Performance parameter	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
S1	Total transmission circuit availability	99.52%	98.622468%	-0.300000%	-\$426,000	99.295376%	-0.134774%	-\$191,379	0.165226%
S2	Critical circuit availability – peak	99.12%	99.510938%	0.046540%	\$66,087	99.516229%	0.047170%	\$66,982	0.000630%
S3	Critical circuit availability – non-peak (zero weighting)	99.37%	99.772798%	0.000000%	\$0	99.772798%	0.000000%	\$0	0.000000%
S4	Loss of supply event frequency ( >0.05 system minutes )	4	2	0.200000%	\$284,000	2	0.200000%	\$284,000	0.000000%
S5	Loss of supply event frequency ( >0.2 system minutes )	1	1	0.000000%	\$0	1	0.000000%	\$0	0.000000%
S6	Average outage duration (minutes)	203.2	39	0.200000%	\$284,000	43	0.200000%	\$284,000	0.000000%
TOTALS				0.146540%	\$208,087		0.312396%	\$443,602	0.165856%

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

Grey cell shows relevant calendar year revenue

Green cells show performance measure targets

Pink cells show performance, s-factor results and financial incentive without exclusions

Orange cells show performance, s-factor results and financial incentive with exclusions

Blue cells show the impact of exclusions on revenue

Aggregate outcome	
S-factor	0.312396%
Financial Incentive	\$443,602
Financial year affected by financial incentive	2014/15

**ElectraNet - Defined exclusions**

No. Parameter 1 - Transmission circuit availability		
Defined exclusions	Further description of exclusion	Reference
1.1 Unregulated transmission assets	Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
1.2 3rd party outages		Appendix B STPIS (March 2011)
1.3 Outages to control voltages	Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)
1.4 Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)
1.5 Capped outages	The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)
1.6 Force majeure		Appendix B STPIS (March 2011)
No. Parameter 2 - Critical circuit availability – peak		
Defined exclusions	Further description of exclusion	Reference
2.1 Unregulated transmission assets	Any outages shown to be caused by a 'third party system'—eg. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
2.2 3rd party outages		Appendix B STPIS (March 2011)
2.3 Outages to control voltages	Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)
2.4 Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)
2.5 Capped outages	The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)
2.6 Force majeure		Appendix B STPIS (March 2011)
Parameter 3 - Loss of supply event frequency (>0.05 system minutes)		
Defined exclusions	Further description of exclusion	Reference
3.1 Successful reclose events (<1 min duration)	Forced outages where notification to affected customers is less than 24 hours (except where AEMO reschedules the outage after notification has been provided).	Appendix B STPIS (March 2011)
3.2 Force outages		Appendix B STPIS (March 2011)
3.3 Unregulated transmission assets	Any outages shown to be caused by a 'third party system'—e.g. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
3.4 3rd party outages		Appendix B STPIS (March 2011)
3.5 Planned outages	For supply outages resulting from an interconnector outage, the period of the interruption is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (ie. excluding factors outside of ElectraNet's control).	Appendix B STPIS (March 2011)
3.6 Interconnector outages		Appendix B STPIS (March 2011)
3.7 Pumping station supply interruptions	Pumping station supply interruptions were excluded from historical data used for target setting due to the highly irregular nature of these loads, which makes accurate estimation of load profiles unreliable.	Appendix B STPIS (March 2011)
3.8 Force majeure	Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had ElectraNet protection not operated is removed from the total lost load.	Appendix B STPIS (March 2011)
3.9 ElectraNet protection operates incorrectly ahead of third party protection		Appendix B STPIS (March 2011)
3.10 ElectraNet protection operates correctly due to a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix B STPIS (March 2011)
Parameter 4 - Loss of supply event frequency (>0.2 system minutes)		
Defined exclusions	Further description of exclusion	Reference
4.1 Successful reclose events (<1 min duration)	Forced outages where notification to affected customers is less than 24 hours (except where AEMO reschedules the outage after notification has been provided).	Appendix B STPIS (March 2011)
4.2 Force outages		Appendix B STPIS (March 2011)
4.3 Unregulated transmission assets	Any outages shown to be caused by a 'third party system'—e.g. intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)
4.4 3rd party outages		Appendix B STPIS (March 2011)
4.5 Planned outages	For supply outages resulting from an interconnector outage, the period of the interruption is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (ie. excluding factors outside of ElectraNet's control).	Appendix B STPIS (March 2011)
4.6 Interconnector outages		Appendix B STPIS (March 2011)
4.7 Pumping station supply interruptions	Pumping station supply interruptions were excluded from historical data due to the highly irregular nature of these loads, which makes accurate estimation of load profiles unreliable.	Appendix B STPIS (March 2011)
4.8 Force majeure	Where ElectraNet protection operates incorrectly ahead of third party protection, the portion of customer load that would have been lost had ElectraNet protection not operated is removed from the total lost load.	Appendix B STPIS (March 2011)
4.9 ElectraNet protection operates incorrectly ahead of third party protection		Appendix B STPIS (March 2011)
4.10 ElectraNet protection operates correctly due to a fault on a third party system	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix B STPIS (March 2011)
Parameter 5 - Average outage duration		
Defined exclusions	Further description of exclusion	Reference
5.1 Successful reclose events (<1 min duration)	any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction	Appendix B STPIS (March 2011)
5.2 Unregulated transmission assets		Appendix B STPIS (March 2011)
5.3 3rd party outages	For supply outages resulting from an interconnector outage, the duration is capped at half an hour. This is done to include the impact of automatic under-frequency load shedding, but to exclude the impact of any market failure to respond and restore load within required timeframes (i.e. excluding factors outside of ElectraNet's control).	Appendix B STPIS (March 2011)
5.4 Planned outages		Appendix B STPIS (March 2011)
5.5 Interconnector outages supply interruptions		Appendix B STPIS (March 2011)
5.6 Force majeure	Where ElectraNet protection operates correctly due to a fault on a third party system no lost load is recorded.	Appendix B STPIS (March 2011)
5.7 ElectraNet protection operates correctly due to a fault on a third party system		Appendix B STPIS (March 2011)

No. Critical circuit availability – non-peak (zero weighting)			
Defined exclusions	Further description of exclusion	Reference	
6.1 Unregulated transmission assets	Any outages shown to be caused by a 'third party system'—eg intertrip signals, generator outage, customer installation, customer request or AEMO direction.	Appendix B STPIS (March 2011)	
6.2 3rd party outages		Appendix B STPIS (March 2011)	
6.3 Outages to control voltages	Outages to control voltages within required limits, both as directed by AEMO and where AEMO does not have direct oversight of the network (in both cases only where the element is available for immediate energisation if required).	Appendix B STPIS (March 2011)	
6.4 Circuit opening for operational purposes	The opening of only one end of a transmission line where the transmission line remains energised and available to carry power.	Appendix B STPIS (March 2011)	
6.5 Capped outages	The number of interrupted hours related to a single transmission line redevelopment project or substation redevelopment project is capped at 336 hours (14 days).	Appendix B STPIS (March 2011)	
6.6 Force majeure		Appendix B STPIS (March 2011)	



## Service Target Performance Incentive Scheme - Definition of Force Majeure

Definition of Force Majeure	Reference
<p>For the purpose of applying the service target performance incentive scheme, force majeure event means any event, act or circumstance or combination of events, acts and circumstances which (despite the observance of good electricity industry practice) is beyond the reasonable control of the part affected by any such event, which may include, without limitation, the following:</p> <ul style="list-style-type: none"> <li>- fire, lightning, explosion, flood, earthquake, storm, cyclone, action of the elements, riots, civil commotion, malicious damage, natural disaster, sabotage, act of a public enemy, act of God, war (declared or undeclared), blockage, revolution, radioactive contamination, toxic or dangerous chemical contamination or force of nature.</li> <li>- action or inaction by a court, government agency (including denial, refusal or failure to grant any authorisation, despite timely best endeavour to obtain same)</li> <li>- strikes, lockouts, industrial and/or labour disputes and/or difficulties, work bans, blockades or picketing</li> <li>- acts or omissions (other than failure to pay money) of a party other than the TNSP, which party either is connected to or uses the high voltage grid or is directly connected to or uses a system for the supply of electricity that in turn is connected to the high voltage grid</li> <li>- where those acts or omissions affect the ability of the TNSP to perform its obligation under the service standard by virtue of that direct or indirect connection to or use of the high voltage grid</li> </ul> <p>In determining what force majeure events should be excluded the AER will consider the following:</p> <ul style="list-style-type: none"> <li>- was the event unforeseeable and its impact extraordinary, uncontrollable and not manageable?</li> <li>- does the event occur frequently? If so, how did the impact of the particular event differ?</li> <li>- could the TNSP, in practice, have prevented the impact (not necessarily the event itself)?</li> <li>- could the TNSP have effectively reduced the impact of the event by adopting better practices?</li> </ul>	<p>Service Target Performance Incentive Scheme (March 2011) p. 54</p>