

## 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 'S7'** 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.

**Powerlink - SERVICE STANDARDS PERFORMANCE**

Performance Inputs							
S	Performance parameter	Collar	Target	Cap	Revenue at Risk	Performance (Without exclusions)	Performance (With exclusions)
S1	Peak transmission circuit availability	98.31%	98.76%	99.20%	0.100%	98.905650%	98.914023%
S2	Transmission line availability	97.60%	98.76%	99.92%	0.100%	98.339330%	98.364829%
S3	Transformer availability	98.27%	98.76%	99.24%	0.100%	98.868145%	98.881224%
S4	Reactive plant availability	94.45%	97.15%	99.84%	0.150%	97.724363%	97.724363%
S5	Loss of supply event frequency (No of events > 0.1 system minutes)	6	4	2	0.150%	11	3
S6	Loss of supply event frequency (No of events > 0.75 system minutes)	2	1	0	0.30%	0	0
S7	Average outage duration	1,306	859	412	0.10%	757	742

Revenue Determination Inputs	
TNSP:	Powerlink
STPIS version:	Mar-2011
Regulatory Determination	2012-13 to 2016-17
Base Year Allowed Revenue	\$835,000,000
Base Year	2012-13
X-factor	-3.02%
Commencement of regulatory year	1-Jul-12

Other inputs	
Assessment Period	2014
Financial year to affect revenue:	2015/16
Date prepared:	30 January 2015
Revision date:	10 February 2015
Circuit information	
Number of peak circuits	609
Number of transmission lines	296
Number of transformers	172
Number of reactive plant	141

Average outage duration information - performance with exclusions	
Duration of unplanned outages (mins)	74951.62 min
Number of excluded events	32
Total number of events	101

Average outage duration information - performance without exclusions	
Duration of unplanned outages (mins)	100651.70 min
Total number of events	133

**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.

Other Inputs						
Annual revenue adjusted for CPI	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17
CPI (old base)	179.5					
CPI (new base)	99.9	102.4	105.4			

**Powerlink - Proposed exclusions**

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 or transformer	Quantitative impact	Reasons for exclusion request	Further references	
Name of any circuit availability 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 affected	Name of any equipment affected	Impact of exclusion event on availability sub-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. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.	
S1	Peak transmission circuit availability	20140018	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	20/01/14	07:51:26	20/01/14	08:08:06	0.278	Feeder 7184		0.277778	Third party event	
S1		20140021	Feeder 7109: T022 Callide A to T026 Biloela de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	21/01/14	17:17:08	0.629	Feeder 7109		0.628611	Third party event	
S1		20140021	T026 Biloela: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	25/01/14	11:20:56	50.343		T026 Biloela 1 Transformer	50.343060	Third party event	
S1		20140039	T027 Moura: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:21	0.791		T027 Moura 2 Transformer	0.791389	Third party event	
S1		20140039	T027 Moura: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:37	0.796		T027 Moura 1 Transformer	0.795833	Third party event	
S1		20140172	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/11/14	08:29:52	11/11/14	11:44:35	3.245		T035 Dysart 1 Transformer	3.245278	Third party event	
S1		20140174	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	14/11/14	20:40:08	15/11/14	08:09:10	1.331	Feeder 824		1.331110	Third party event	
S1		20140185	Feeder 8878: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	27/11/14	10:57:17	27/11/14	13:22:48	2.425	Feeder 8878		2.425278	Third party event	
S1		20140200	T032 Blackwater: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:13:59	0.466		T032 Blackwater 1 Transformer	0.466111	Third party event	
S1		20140200	T032 Blackwater: 7 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:25:20	0.655		T032 Blackwater 7 Transformer	0.655278	Third party event	
S1		20140207	Feeder 7227/2: 7227 Tee to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	09:19:55	2.332	Feeder 7227/2		2.331944	Third party event	
S1		20140223	Feeder 8877: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	16/12/14	03:43:32	17/12/14	06:48:04	15.000	Feeder 8877		15.000000	Third party event	
S1														
S2	Transmission line availability	20140018	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	20/01/2014	07:51:26	20/01/2014	08:08:06	0.278	Feeder 7184		0.277778	Third party event	
S2		20140021	Feeder 7109: T022 Callide A to T026 Biloela de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	21/01/14	17:17:08	0.629	Feeder 7109		0.628611	Third party event	
S2		20140075	Feeder 852: H024 Calvale to H030 Callide B tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	10/04/14	10:15:42	10/04/14	10:57:32	0.697	Feeder 852		0.697222	Third party event	
S2		20140100	Feeder 601: H018 Tarong to H027 Tarong Power Station tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	1/07/14	05:55:56	25/07/14	14:44:37	584.811	Feeder 601		584.811389	Third party event	
S2		20140108	Feeder 843: H027 Tarong Power Station to H018 Tarong tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	23/07/14	06:53:59	23/07/14	08:25:16	1.521	Feeder 843		1.521389	Third party event	
S2		20140134	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	24/09/14	08:28:45	24/09/14	09:37:01	1.138	Feeder 7184		1.137778	Third party event	
S2		20140141	Feeder 8876: H067 Calliope River to H007 Gladstone PS Gen 1 de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	27/09/14	15:43:16	27/09/14	18:01:42	2.307	Feeder 8876		2.307222	Third party event	
S2		20140142	Feeder 8877: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	29/09/14	07:08:28	29/09/14	19:29:49	12.356	Feeder 8877		12.355833	Third party event	
S2		20140145	Feeder 9901: R002 Braemar to R003 Bulli Creek de-loaded. Event initiated by adjoining transmission network. Powerlink plant and equipment operated as expected.	Interconnector issue	2/10/14	10:49:18	2/10/14	11:25:09	0.598	Feeder 9901		0.597500	Third party event	

S2	line availability	20140145	Feeder 8L: R003 Bulli Creek to Dumaresq tripped. Trip initiated by adjoining transmission network. Powerlink plant and equipment operated as expected.	Interconnector issue	2/10/14	10:49:18	2/10/14	11:25:09	0.598	Feeder 8L		0.597500	Third party event	
S2		20140149	Feeder 843: H027 Tarong Power Station to H018 Tarong tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	9/10/14	03:34:08	9/10/14	09:41:20	6.120	Feeder 843		6.120000	Third party event	
S2		20140174	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	14/11/14	20:40:08	15/11/14	08:09:10	11.484	Feeder 0824		11.483889	Third party event	
S2		20140185	Feeder 8878: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	27/11/14	10:57:17	27/11/14	13:22:48	2.425	Feeder 8878		2.425278	Third party event	
S2		20140207	Feeder 7227/3: 7227 Tee to T051 Cairns tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49	1.873	Feeder 7227/3		1.873333	Third party event	
S2		20140207	Feeder 7227/1: H039 Woree to 7227 Tee tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49	1.873	Feeder 7227/1		1.873333	Third party event	
S2		20140207	Feeder 7227/2: 7227 Tee to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	09:19:55	5.158	Feeder 7227/2		5.158333	Third party event	
S2		20140223	Feeder 8877: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	16/12/14	03:43:32	17/12/14	06:48:04	27.076	Feeder 8877		27.075556	Third party event	
S2														
S3	Transformer availability	20140011	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/01/2014	10:41:54	11/01/2014	22:11:51	11.499		T035 Dysart 1 Transformer	11.499167	Third party event	
S3		20140021	T026 Biloela: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	25/01/14	11:20:56	90.692		T026 Biloela 1 Transformer	90.691944	Third party event	
S3		20140024	T220 Collinsville North: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	29/01/14	00:05:45	29/01/14	01:22:23	1.277		T220 Collinsville North 1 Transformer	1.277222	Third party event	
S3		20140037	T037 Collinsville: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	10/02/14	03:28:19	10/02/14	04:28:07	0.997		T037 Collinsville 1 Transformer	0.996667	Third party event	
S3		20140037	T220 Collinsville North: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	10/02/14	03:28:19	10/02/14	04:30:28	1.036		T220 Collinsville North 1 Transformer	1.035833	Third party event	
S3		20140039	T027 Moura: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:21	0.791		T027 Moura 2 Transformer	0.791389	Third party event	
S3		20140039	T027 Moura: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:37	0.796		T027 Moura 1 Transformer	0.795833	Third party event	
S3		20140110	T056 Townsville South: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	04:35:41	31/07/14	04:47:13	0.192		T056 Townsville South 2 Transformer	0.192222	Third party event	
S3		20140112	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	23:06:31	31/07/14	23:19:09	0.211		T056 Townsville South 1 Transformer	0.210556	Third party event	
S3		20140113	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	23:20:01	31/07/14	23:22:12	0.036		T056 Townsville South 1 Transformer	0.036389	Third party event	
S3		20140119	H031 Molendinar: 12 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/08/14	23:36:25	19/08/14	08:25:36	56.820		H031 Molendinar 12 Transformer	56.819722	Third party event	
S3		20140120	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	19/08/14	00:37:52	19/08/14	00:52:49	0.249		T056 Townsville South 1 Transformer	0.249167	Third party event	
S3		20140124	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	4/09/14	22:22:46	5/09/14	08:53:02	10.504		H011 Nebo 3 Transformer	10.504444	Third party event	
S3		20140125	H011 Nebo: 4 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	5/09/14	02:48:52	5/09/14	02:54:32	0.094		H011 Nebo 4 Transformer	0.094444	Third party event	
		20140146	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	5/09/14	09:07:52	5/09/14	10:14:22	1.108		H011 Nebo 3 Transformer	1.108333	Third party event	
S3		20140131	T220 Collinsville North: 2 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	22/09/14	10:27:57	22/09/14	11:42:40	1.245		T220 Collinsville North 2 Transformer	1.245278	Third party event	
S3	20140154	T034 Moranbah: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/10/14	08:54:03	16/10/14	09:02:43	0.144		T034 Moranbah 3 Transformer	0.144444	Third party event		

S3	20140155	T034 Moranbah: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/10/14	10:32:13	16/10/14	15:42:03	5.164		T034 Moranbah 1 Transformer	5.163889	Third party event
S3	20140160	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	26/10/14	06:50:42	26/10/14	11:03:09	4.207		H011 Nebo 3 Transformer	4.207500	Third party event
S3	20140172	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/11/14	08:29:52	11/11/14	11:44:35	3.245		T035 Dysart 1 Transformer	3.245278	Third party event
S3	20140200	T032 Blackwater: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:13:59	0.466		T032 Blackwater 1 Transformer	0.466111	Third party event
S3	20140200	T032 Blackwater: 7 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:25:20	0.655		T032 Blackwater 7 Transformer	0.655278	Third party event
S3	20140207	T051 Cairns: 4 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49	1.873		T051 Cairns 4 Transformer	1.873333	Third party event
S3												
S4								0.000				
S4								0.000				
S4								0.000				
S4								0.000				
S4								0.000				
S4								0.000				
S4								0.000				

Exclusion calculation data		Public holidays 2014		Start	End	No of peak weekdays in
Peak start	Peak finish	1/01/2014	Period 1	1/01/2014	31/12/2014	252
7:00	22:00	27/01/2014				
		18/04/2014				
		19/04/2014				
		20/04/2014				
		21/04/2014				
		25/04/2014				
		9/06/2014				
		6/10/2014				
		25/12/2014				
		26/12/2014				

**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.

**Powerlink - Proposed exclusions**

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	Start time	End date and time of event	End time	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. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S5	Loss of supply event frequency (No of events > 0.1 system minutes)	20140031	Distribution Feeder 733: H014 Middle Ridge to T010 Yarranlea tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	04:33:49	3/02/14	14:04:00	H014 Middle Ridge Circuit Breaker 7332	8891 MW	4MW, 469 mins	1	Third Party Event	
S5		20140032	Distribution Feeder 734: H014 Middle Ridge to T010 Yarranlea tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	06:12:05	3/02/14	12:02:52	H014 Middle Ridge Circuit Breaker 7342	8891 MW	3MW, 351 mins	1	Third Party Event	
S5		20140039	T027 Moura: Transformers 1 and 2 de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:21	T027 Moura 1 Transformer and 2 Transformer	8891 MW	40MW, 47 mins	1	Third Party Event	
S5		20140116	Distribution Feeder F820: H022 Loganlea to Jimboomba tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/08/14	00:20:42	11/08/14	02:39:35	H022 Loganlea: Circuit Breaker 78202	8891 MW	39MW, 139 mins	1	Third Party Event	
S5		20140118	Distribution Feeder F820: H022 Loganlea to Jimboomba tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/08/14	07:31:50	17/08/14	00:10:00	H022 Loganlea: Circuit Breaker 78202	8891 MW	40MW, 81 mins	1	Third Party Event	
S5		20140155	T034 Moranbah: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/10/14	10:32:13	16/10/14	15:42:03	T034 Moranbah 1 Transformer	8891 MW	16MW, 310 mins	1	Third Party Event	
S5		20140200	T032 Blackwater: Transformers 1 and 7 de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:13:59	T032 Blackwater 1 Transformer and 7 Transformer	8891 MW	55MW, 28 mins	1	Third Party Event	
S5		20140226	Distribution Feeder 766: H003 Belmont to Cleveland tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/12/14	01:37:07	16/12/14	12:26:00	H003 Belmont Circuit Breaker 7662	8891 MW	13MW, 468 mins	1	Third Party Event	
S6	Loss of supply event frequency (No of events > 0.75 system minutes)													
S6														
S6														
S6														
S6														
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.

**Powerlink - Proposed exclusions**

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. 3rd party outage exclusion	A TNSP may provide further details of an exclusion event. TNSP to provide reference.
S7	20140011	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/01/14	10:41:54	11/01/14	22:11:51	T035 Dysart 1 Transformer	689.950		Third Party Event	
S7	20140018	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	20/01/14	07:51:26	20/01/14	08:08:06	Feeder 7184	16.667		Third Party Event	
S7	20140021	Feeder 7109: T022 Callide A to T026 Biloela de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	21/01/14	17:17:08	Feeder 7109			Third Party Event	
S7	20140021	T026 Biloela: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	21/01/14	16:39:25	25/01/14	11:20:56	T026 Biloela 1 Transformer	5441.517		Third Party Event	
S7	20140024	T220 Collinsville North: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	29/01/14	00:05:45	29/01/14	01:22:23	T220 Collinsville North 1 Transformer	76.633		Third Party Event	
S7	20140039	T027 Moura: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:21	T027 Moura 2 Transformer			Third Party Event	
S7	20140039	T027 Moura: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	3/02/14	09:40:52	3/02/14	10:28:37	T027 Moura 1 Transformer	47.750		Third Party Event	
S7	20140037	T037 Collinsville: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	10/02/14	03:28:19	10/02/14	04:28:07	T037 Collinsville 1 Transformer			Third Party Event	
S7	20140037	T220 Collinsville North: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	10/02/14	03:28:19	10/02/14	04:30:28	T220 Collinsville North 1 Transformer	62.150		Third Party Event	
S7	20140075	Feeder 852: H024 Calvale to H030 Callide B tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	10/04/14	10:15:42	10/04/14	10:57:32	Feeder 852	41.833		Third Party Event	
S7	20140100	Feeder 601: H018 Tarong to H027 Tarong Power Station tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	1/07/14	05:55:56	25/07/14	14:44:37	Feeder 601	35088.683	10080.000	Third Party Event	
S7	20140108	Feeder 843: H027 Tarong Power Station to H018 Tarong tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	23/07/14	06:53:59	23/07/14	08:25:16	Feeder 843	91.283		Third Party Event	
S7	20140110	T056 Townsville South: 2 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	04:35:41	31/07/14	04:47:13	T056 Townsville South 2 Transformer	11.533		Third Party Event	
S7	20140112	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	23:06:31	31/07/14	23:19:09	T056 Townsville South 1 Transformer	12.633		Third Party Event	
S7	20140113	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	31/07/14	23:20:01	31/07/14	23:22:12	T056 Townsville South 1 Transformer	2.183		Third Party Event	
S7	20140119	H031 Molendinar: 12 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/08/14	23:36:25	19/08/14	08:25:36	H031 Molendinar 12 Transformer	3409.183		Third Party Event	
S7	20140120	T056 Townsville South: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	19/08/14	00:37:52	19/08/14	00:52:49	T056 Townsville South 1 Transformer	14.950		Third Party Event	
S7	20140124	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	4/09/14	22:22:46	5/09/14	08:53:02	H011 Nebo 3 Transformer	630.267		Third Party Event	
S7	20140125	H011 Nebo: 4 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	5/09/14	02:48:52	5/09/14	02:54:32	H011 Nebo 4 Transformer	5.667		Third Party Event	
S7	20140146	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	5/09/14	09:07:52	5/09/14	10:14:22	H011 Nebo 3 Transformer	66.500		Third Party Event	

S7	Average outage duration	20140131	T220 Collinsville North: 2 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	22/09/14	10:27:57	22/09/14	11:42:40		T220 Collinsville North 2 Transformer	74.717		Third Party Event
S7		20140134	Feeder 7184: T053 Kamerunga to T054 Barron Gorge tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	24/09/14	08:28:45	24/09/14	09:37:01	Feeder 7184		68.267		Third Party Event
S7		20140141	Feeder 8876: H067 Calliope River to H007 Gladstone PS Gen 1 de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	27/09/14	15:43:16	27/09/14	18:01:42	Feeder 8876		138.433		Third Party Event
S7		20140142	Feeder 8877: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	29/09/14	07:08:28	29/09/14	19:29:49	Feeder 8877		741.350		Third Party Event
S7		20140145	Feeder 9901: R002 Braemar to R003 Bulli Creek de-loaded. Event initiated by adjoining transmission network. Powerlink plant and equipment operated as expected.	Interconnector issue	2/10/14	10:49:18	2/10/14	11:25:09	Feeder 9901				Third Party Event
S7		20140145	Feeder 8L: R003 Bulli Creek to Dumaresq tripped. Trip initiated by adjoining transmission network. Powerlink plant and equipment operated as expected.	Interconnector issue	2/10/14	10:49:18	2/10/14	11:25:09	Feeder 8L		35.850		Third Party Event
S7		20140149	Feeder 843: H027 Tarong Power Station to H018 Tarong tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	9/10/14	03:34:08	9/10/14	09:41:20	Feeder 843		367.200		Third Party Event
S7		20140154	T034 Moranbah: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/10/14	08:54:03	16/10/14	09:02:43		T034 Moranbah 3 Transformer	8.667		Third Party Event
S7		20140155	T034 Moranbah: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	16/10/14	10:32:13	16/10/14	15:42:03		T034 Moranbah 1 Transformer	309.833		Third Party Event
S7		20140160	H011 Nebo: 3 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	26/10/14	06:50:42	26/10/14	11:03:09		H011 Nebo 3 Transformer	252.450		Third Party Event
S7		20140172	T035 Dysart: 1 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/11/14	08:29:52	11/11/14	11:44:35		T035 Dysart 1 Transformer	194.717		Third Party Event
S7		20140174	Feeder 0824: H012 Mount England to H028 Wivenhoe tripped. Trip initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	14/11/14	20:40:08	15/11/14	08:09:10	Feeder 824		689.033		Third Party Event
S7		20140185	Feeder 8878: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as expected.	Generation issue	27/11/14	10:57:17	27/11/14	13:22:48	Feeder 8878		145.517		Third Party Event
S7		20140200	T032 Blackwater: 1 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:13:59		T032 Blackwater 1 Transformer			Third Party Event
S7		20140200	T032 Blackwater: 7 Transformer de-loaded. Event initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	8/12/14	18:46:01	8/12/14	19:25:20		T032 Blackwater 7 Transformer	39.317		Third Party Event
S7		20140207	Feeder 7227/1: H039 Woree to 7227 Tee tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49	Feeder 7227/1				Third Party Event
S7		20140207	Feeder 7227/3: 7227 Tee to T051 Cairns tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49	Feeder 7227/3				Third Party Event
S7		20140207	T051 Cairns: 4 Transformer tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	06:02:49		T051 Cairns 4 Transformer			Third Party Event
S7		20140207	Feeder 7227/2: 7227 Tee to Cairns City tripped. Trip initiated by distribution network. Powerlink plant and equipment operated as expected.	Distribution issue	11/12/14	04:10:25	11/12/14	09:19:55	Feeder 7227/2		309.500		Third Party Event
S7		20140223	Feeder 8877: H007 Gladstone to H067 Calliope River de-loaded. Event initiated by generator. Powerlink plant and equipment operated as	Generation issue	16/12/14	03:43:32	17/12/14	06:48:04	Feeder 8877		1624.533		Third Party Event



**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.

## Powerlink - S1 - Peak transmission circuit availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Peak transmission circuit availability	98.10%	98.31%	98.76%	99.20%	99.40%
Weighting	-0.10%	-0.100%	0.00%	0.100%	0.10%

Performance Formulae	Formulae				Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.001000			Availability < 98.31%	-0.001000	-0.001000
	=	0.222222	x	Availability	+ 98.31% ≤ Availability ≤ 98.76%	0.000324	0.000342
	=	0.227273	x	Availability	+ 98.76% ≤ Availability ≤ 99.20%	0.000331	0.000350
	=	0.001000			99.20% < Availability	0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Peak transmission circuit availability	=	98.905650%	98.914023%
S-Factor	=	0.033102%	0.035005%

### NOTE:

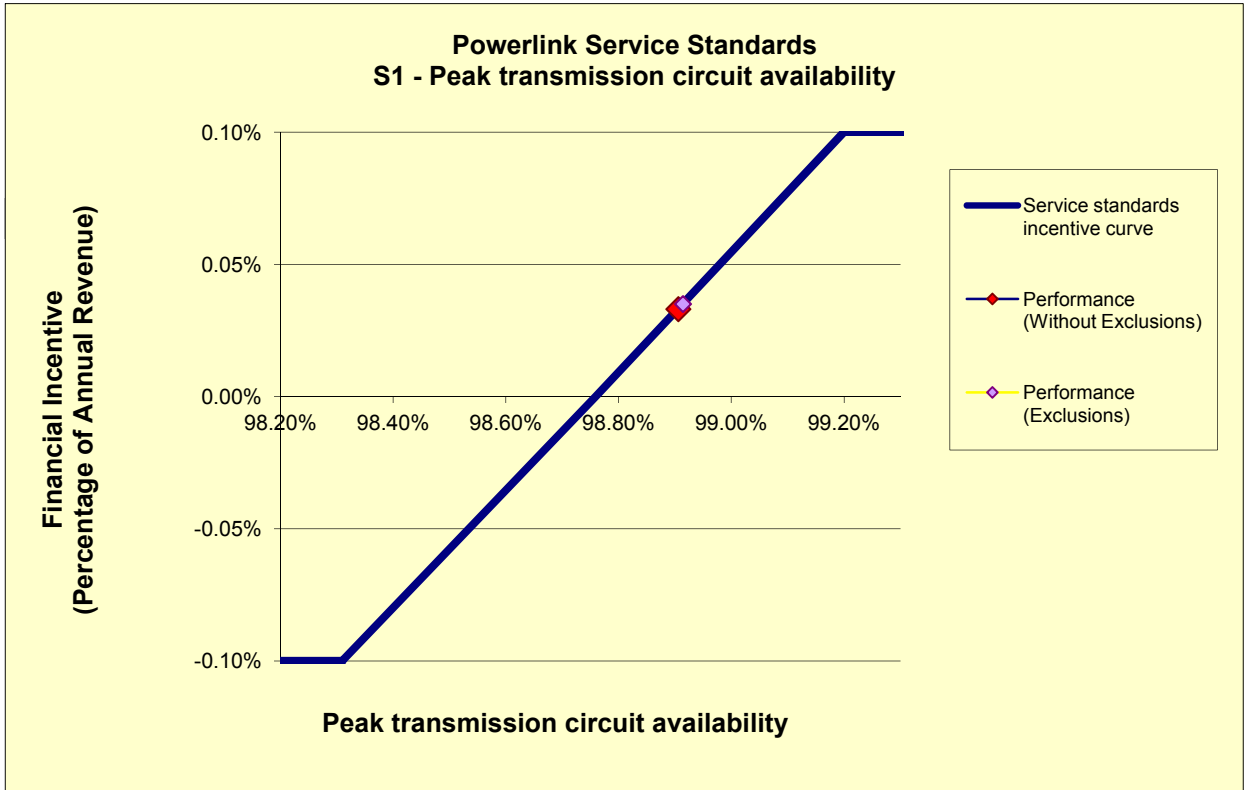
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Orange cells show the TNSP's performance outcomes with events excluded from performance data



## Powerlink - S2 - Transmission line availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transmission line availability	97.40%	97.60%	98.76%	99.92%	100.10%
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 < 97.60%	-0.001000	-0.001000
	=	0.086207	x	Availability + -0.085138	97.60% ≤ Availability ≤ 98.76%	-0.000363	-0.000341
	=	0.086207	x	Availability + -0.085138	98.76% ≤ Availability ≤ 99.92%	-0.000363	-0.000341
	=	0.001000			99.92% < Availability	0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transmission line availability	=	98.339330%	98.364829%
S-Factor	=	-0.036265%	-0.034066%

### NOTE:

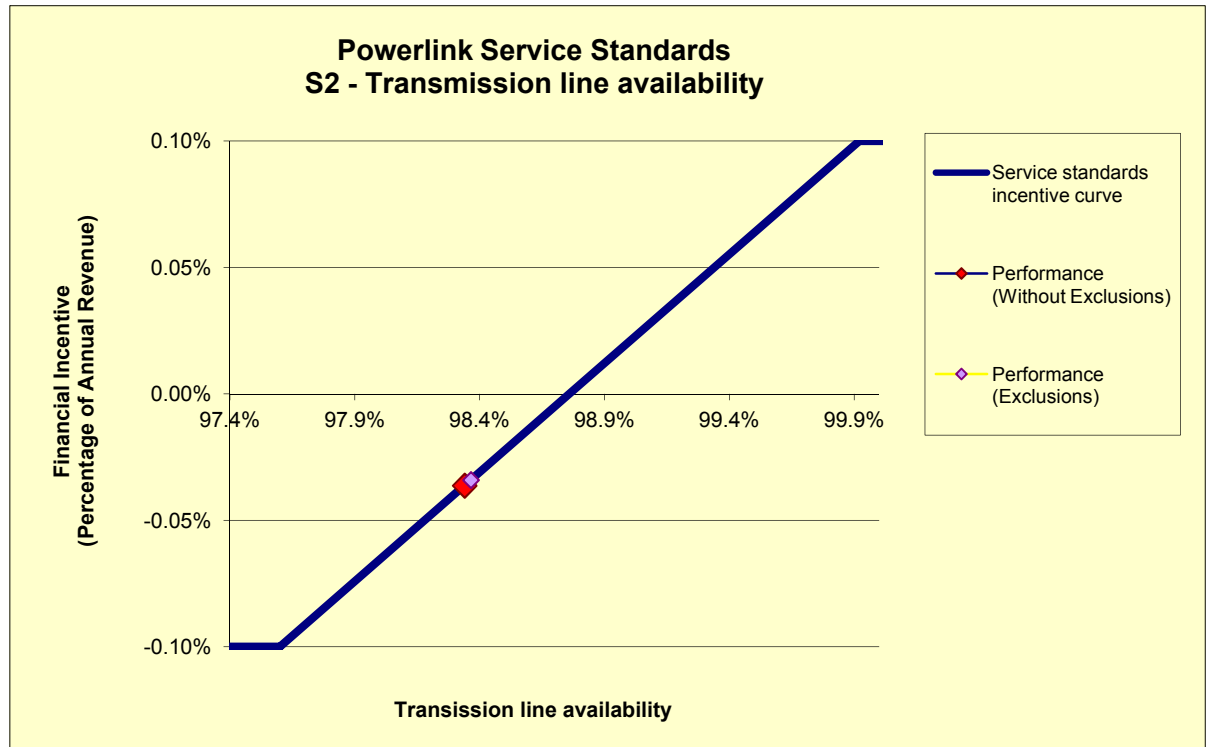
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## Powerlink - S3 - Transformer availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Transformer availability	98.10%	98.27%	98.76%	99.24%	99.40%
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	<	98.27%	-0.001000	-0.001000		
	=	0.204082	x	Availability	+	-0.201551	98.27%	≤	Availability	≤	98.76%	0.000221	0.000247
	=	0.208333	x	Availability	+	-0.205750	98.76%	≤	Availability	≤	99.24%	0.000225	0.000253
	=	0.001000					99.24%	<	Availability			0.001000	0.001000

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Transformer availability	=	98.868145%	98.881224%
S-Factor	=	0.022530%	0.025255%

### NOTE:

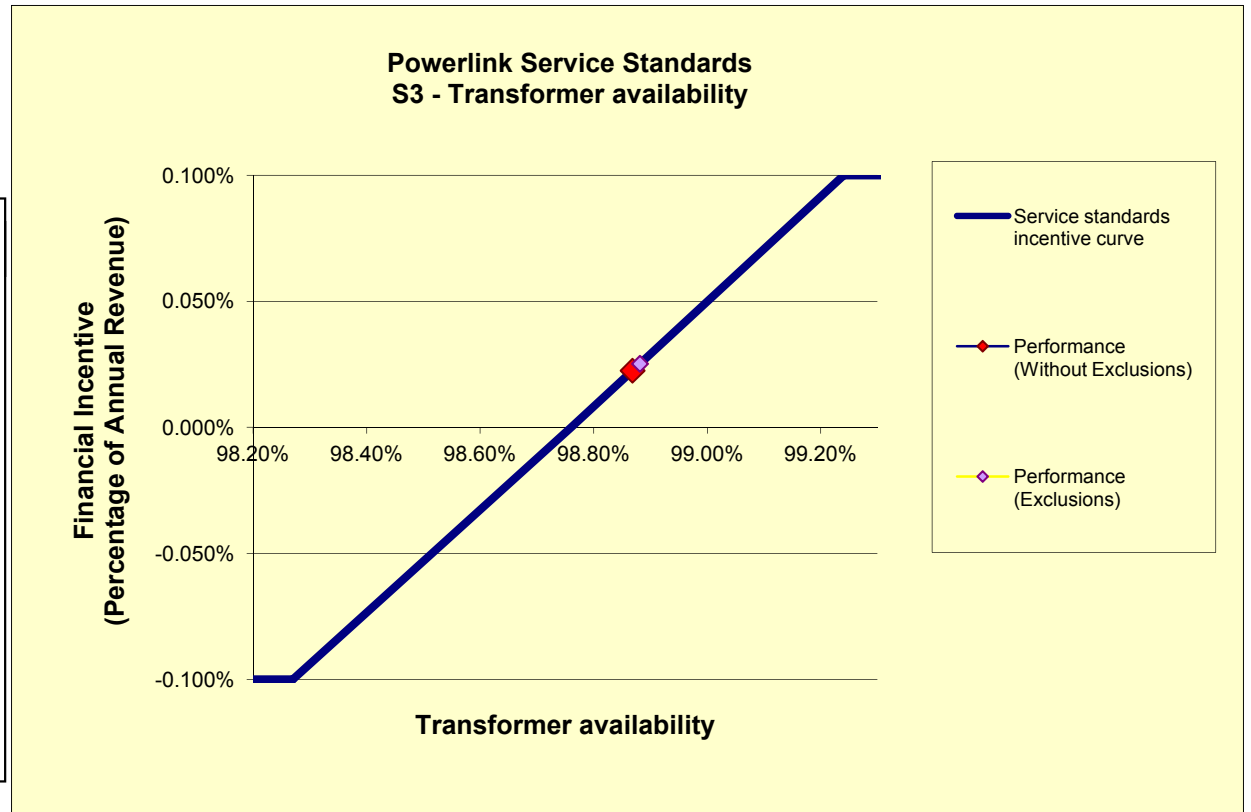
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## Powerlink - S4 - Reactive plant availability

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Reactive plant availability	94.30%	94.45%	97.15%	99.84%	100.00%
Weighting	-0.15%	-0.15%	0.00%	0.15%	0.15%

Performance Formulae	Formulae				Conditions				S- Calc 1	S- Calc 2			
Performance	=	-0.001500			When:	Availability	<	94.45%	-0.001500	-0.001500			
	=	0.055556	x	Availability	+	-0.053972	94.45%	≤	Availability	≤	97.15%	0.000319	0.000319
	=	0.055762	x	Availability	+	-0.054173	97.15%	≤	Availability	≤	99.84%	0.000320	0.000320
	=	0.001500					99.84%	<	Availability			0.001500	0.001500

Performance Outcomes		Performance (Without Exclusions)	Performance (Exclusions)
Reactive plant availability	=	97.724363%	97.724363%
S-Factor	=	0.032028%	0.032028%

### NOTE:

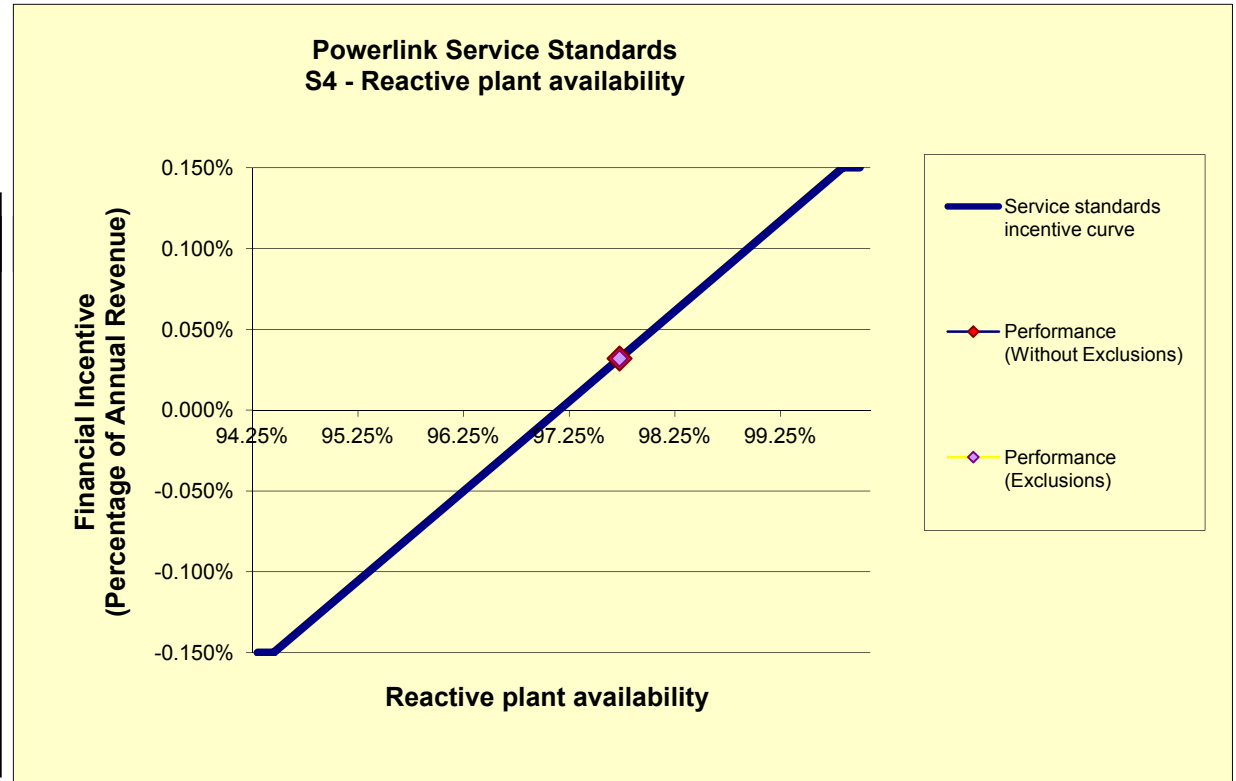
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## Powerlink - S5 - Loss of supply event frequency (No of events > 0.1 system minutes)

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (No of events > 0.1 system minutes)	8	6	4	2	-
Weighting	-0.15%	-0.150%	0.00%	0.150%	0.15%

Performance Formulae	Formulae				Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.001500			6 < No. of events	-0.001500	-0.001500
	=	-0.000750	x	No. of events	+ 0.003000 4 ≤ No. of events ≤ 6	-0.005250	0.000750
	=	-0.000750	x	No. of events	+ 0.003000 2 ≤ No. of events ≤ 4	-0.005250	0.000750
	=	0.001500			No. of events < 2	0.001500	0.001500

Loss of supply event frequency (No of events > 0.1 system minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (No of events > 0.1 system minutes)	=	11	3
S-Factor		-0.150000%	0.075000%

### NOTE:

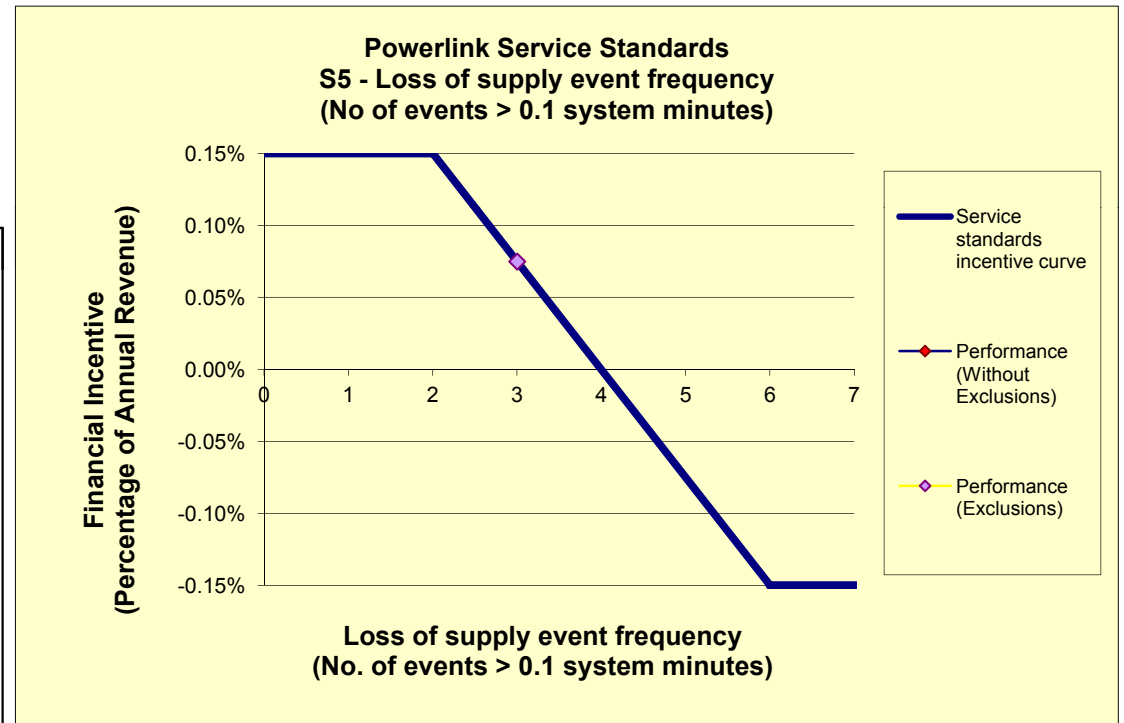
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**Powerlink - S6 - Loss of supply event frequency (No of events > 0.75 system minutes)**

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Loss of supply event frequency (No of events > 0.75 system minutes)	4	2	1	0	0
Weighting	-0.30%	-0.300%	0.00%	0.300%	0.30%

Performance Formulae	Formulae					Conditions	S- Calc 1	S- Calc 2
Performance	=	-0.003000				2 < No. of events	-0.003000	-0.003000
	=	-0.003000	x	No. of events	+	0.003000	1 ≤ No. of events ≤ 2	0.003000
	=	-0.003000	x	No. of events	+	0.003000	0 ≤ No. of events ≤ 1	0.003000
	=	0.003000				No. of events = 0	0.003000	0.003000

Loss of supply event frequency (No of events > 0.75 system minutes)	=	Performance (Without Exclusions)	Performance (Exclusions)
Loss of supply event frequency (No of events > 0.75 system minutes)	=	0	0
S-Factor		0.300000%	0.300000%

**NOTE:**

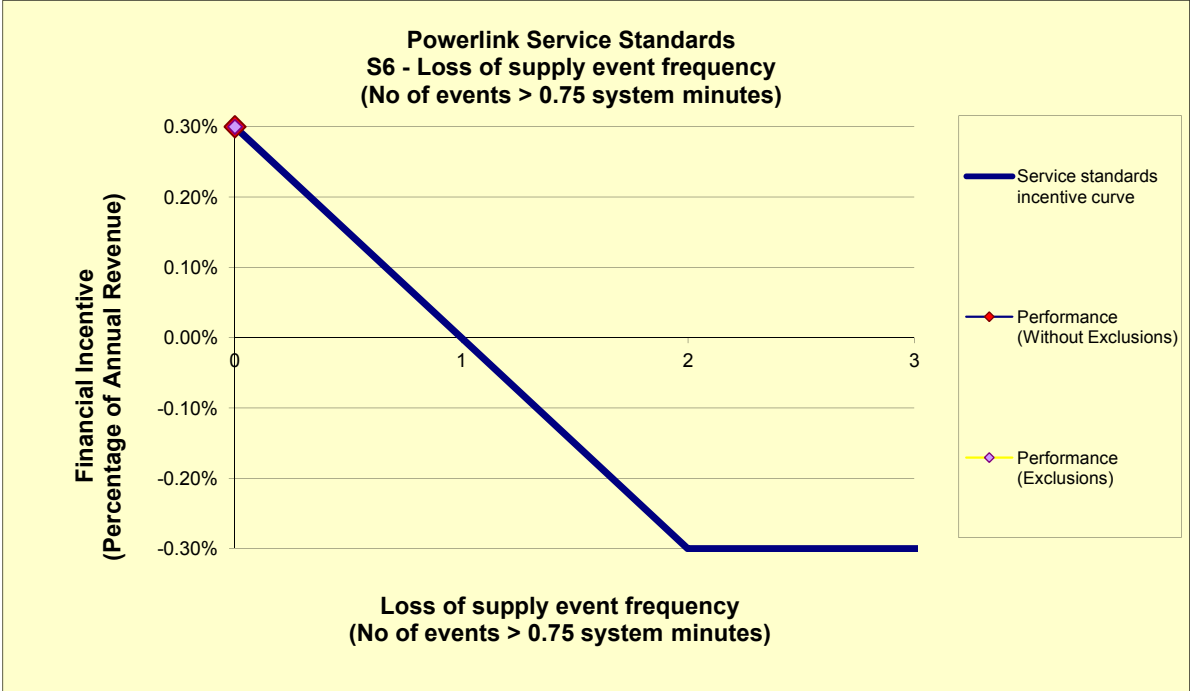
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## Powerlink - S7 - Average outage duration

Performance Targets	Graph start	Collar	Target	Cap	Graph end
Average outage duration	1,506	1,306	859	412	-
Weighting	-0.10%	-0.100%	0.00%	0.100%	0.10%

Performance Formulae	Formulae						Conditions			S- Calc 1	S- Calc 2
Performance	=	-0.001000				1306	<	Duration		-0.001000	-0.001000
	=	-0.000002	x	Duration	+	0.001922	859	≤	Duration ≤ 1,306	0.000229	0.000262
	=	-0.000002	x	Duration	+	0.001922	412	≤	Duration ≤ 859	0.000229	0.000262
	=	0.001000							Duration < 412	0.001000	0.001000

Average outage duration	=	Performance (Without Exclusions)	Performance (Exclusions)
Average outage duration	=	756.779699	742.095214
S-Factor		0.022868%	0.026153%

### NOTE:

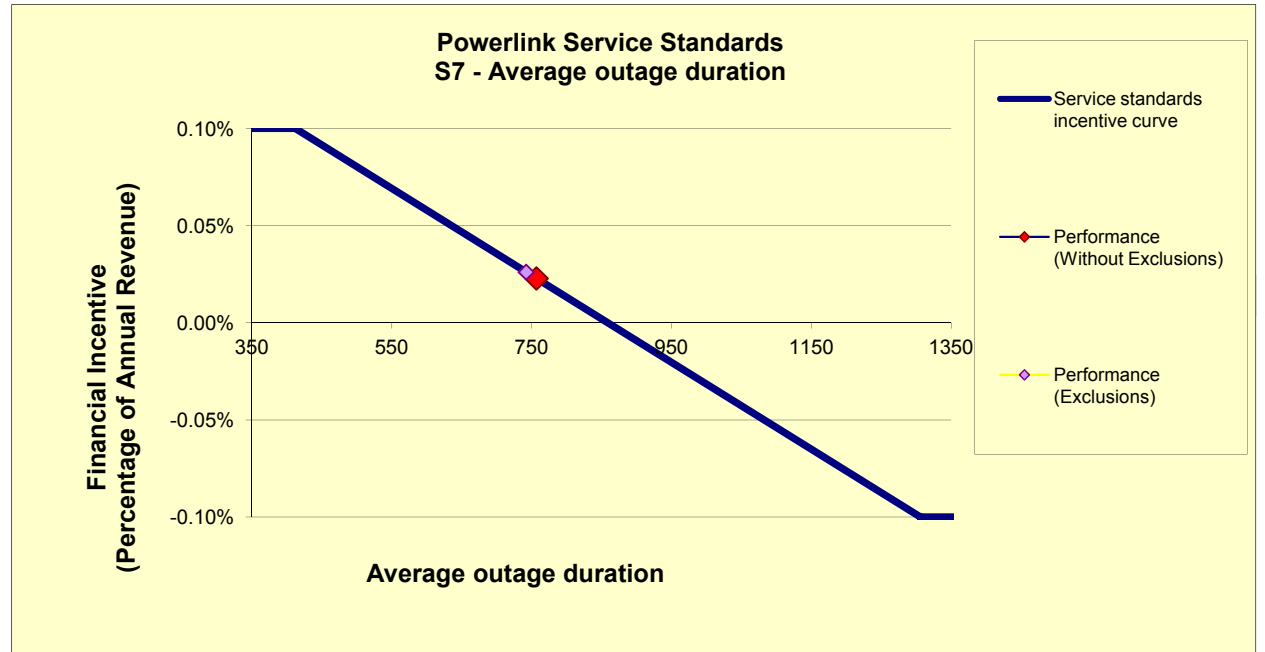
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Orange cells show the TNSP's performance outcomes with events excluded from performance data





## Powerlink - Revenue Calculation

<i>Revenue cap information</i>	
Base year allowed revenue	\$835,000,000
Base year	2012-13
X-factor	-3.02%
Commencement of regulatory period	1-Jul-12

<i>Annual revenue adjusted for CPI</i>	Mar-12	Mar-13	Mar-14	Mar-15	Mar-16	Mar-17
CPI	179.5	-	-	-	-	-
CPI	99.9	102.4	105.4	-	-	-

Nominal annual revenue	2012-13	2013-14	2014-15	2015-16	2016-17
Allowed Revenue	\$835,000,000	\$881,743,952	\$934,985,098		

<i>Calendar year revenue</i>	2H/2012	2013	2014	2015	2016
Revenue	\$417,500,000	\$858,371,976	\$908,364,525		

### NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

## Powerlink - Performance outcomes

Revenue calendar year

\$908,364,525

S	Performance parameter	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
S1	Peak transmission circuit availability	98.76%	98.905650%	0.033102%	\$300,690	98.914023%	0.035005%	\$317,975	0.001903%
S2	Transmission line availability	98.76%	98.339330%	-0.036265%	-\$329,416	98.364829%	-0.034066%	-\$309,447	0.002198%
S3	Transformer availability	98.76%	98.868145%	0.022530%	\$204,655	98.881224%	0.025255%	\$229,407	0.002725%
S4	Reactive plant availability	97.15%	97.724363%	0.032028%	\$290,928	97.724363%	0.032028%	\$290,928	0.000000%
S5	Loss of supply event frequency (No of events > 0.1 system minutes)	4	11	-0.150000%	-\$1,362,547	3	0.075000%	\$681,273	0.225000%
S6	Loss of supply event frequency (No of events > 0.75 system minutes)	1	0	0.300000%	\$2,725,094	0	0.300000%	\$2,725,094	0.000000%
S7	Average outage duration	859	757	0.022868%	\$207,725	742	0.026153%	\$237,566	0.003285%
<b>TOTALS</b>				0.224264%	\$2,037,130		0.459375%	\$4,172,796	0.235111%

**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	0.459375%
Financial Incentive	\$4,172,796
Financial year affected by financial incentive	2015/16