

Instructions

This template must be used by **AusNet Services** to report service performance information for **2014** (1 April 2014 - 31 Dec 2014)

Inputs

- Blue, yellow and green worksheets are for inputs, including performance and exclusion information. The TNSP only needs to enter data on these worksheets
 - To add more rows in the Inputs-exclusions tabs please insert rows after row 4.
- Cells where TNSP input is required are shaded orange:
- Cells where the input is sourced from the revenue proposal are shaded green:

Calculations

- Purple worksheets are the s-factor results based on the performance inputs entered by the TNSP. These are automatically calculated.
- cells where a calculation occurs are shaded grey with orange text:

Outcomes

- The red worksheet shows the total performance, s-factor and financial incentive results based on the TNSP's performance inputs.

	Collar	Target	Cap	Weighting
Average circuit outage rate (%)				
s1	42.0	25.9	14.8	0.2
s2	31.7	16.1	7.4	0.2
s3	46.4	35.1	2.5	0.1
s4	17.7	14.9	12.3	0.0
s5	17.6	12.0	6.2	0.0
s6	32.7	15.4	6.2	0.0
Loss of supply event frequency				
s7	4.0	2.0	0.0	0.150
s8	2.0	1.0	0.0	0.150
Average outage duration				
s9	293.5	98.0	5.0	0.2
Proper operation of equipment				
s10	N/A	N/A	N/A	0.0
s11	2.0	1.0	0.0	0.0
s12	N/A	N/A	N/A	0.0

Performance	
without exclusions	with exclusions
25.6	25.6
28.2	27.1
36.4	36.4
14.0	14.0
11.4	11.4
37.1	37.1

Number of events pa - 2014			
without exclusions	with exclusions	No. of defined circuits	
37	37	0	121
32	29	3	127
18	18	0	70
19	19	0	121
15	15	0	127
27	27	0	70

Number of events pa - 2013			
without exclusions	with exclusions	No. of defined circuits	
25	25	0	121
40	40	0	128
33	33	0	70
15	15	0	121
14	14	0	128
25	25	0	70

Average (2013, 2014)			
without exclusions	with exclusions	No. of defined circuits	
31	31	0	121
36	35	2	128
26	26	0	70
17	17	0	121
15	15	0	128
26	26	0	70

exclusions		
2	1	1
0	0	0
8	7	1
197	149	49
28	22	#DIV/0!
25	25	0
2	2	0
4	4	0

6	5	1
216	119	97
36	24	97

9	9	0
178.7	179	0
20	20	#DIV/0!

8	7	1
197	149	49
28	22	#DIV/0!

TNSP
 STPIS version
 Regulatory Determination
 Base Year Allowed Revenue
 Base Year
 Commencement of regulatory year

AusNet
 December, 2012
 2014/15 - 2016/17
 538,100,000
 2014-15
 1 Apr 2014

	2014-15	2015-16	2016-17
Annual revenue (\$2014-15)	538,100,000	533,400,000	528,800,000

MAR \$2014-15
 1 April - 31 December 2014 (\$2014-15)
 1 January - 31 December 2015 (\$2014-15)
 1 January - 31 December 2016 (\$2014-15)
 1 January - 31 March 2017 (\$2014-15)

403,575,000
534,575,000
529,950,000
132,200,000

Other inputs
 Assessment Period
 Financial year to affect revenue:
 Date prepared:
 Revision date:

1 April 2014 to 31 December 2014
 2014/15
 29-Jan-15
 29-Jan-15

Parameter	Average circuit outage rate	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Count of circuit events	Circuits affected	Reasons for exclusion request	Further references
	Name of any average circuit outage rate parameters applying to AusNet services	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	Identify the events that are to be excluded from the performance measure	Name of circuits affected	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. Please provide reference to any attachments submitted.
S1	lines outage rate - fault	Bushfires in the Grampians area on the 15th of Jan 2014	RCTS-HOTS 220kV line tripped on three occasions between 15th and 16th January 2014	Smoke from Bushfire		RCTS-HOTS 220kV line	Exclusion force majeure events	FM event Report 15-16Jan 2014
S1	lines outage rate - fault	Bushfires in the Grampians area on the 15th of Jan 2014	RCTS-HOTS 220kV line tripped on three occasions between 15th and 16th January 2014	Smoke from Bushfire		RCTS-HOTS 220kV line	Exclusion force majeure events	FM event Report 15-16Jan 2014
S1	lines outage rate - fault	Bushfires in the Grampians area on the 15th of Jan 2014	RCTS-HOTS 220kV line tripped on three occasions between 15th and 16th January 2014	Smoke from Bushfire		RCTS-HOTS 220kV line	Exclusion force majeure events	FM event Report 15-16Jan 2014
S1	lines outage rate - fault	A severe thunderstorm in Pyramid Hill area: on the 24th Nov 2014	BETS-KGTS 220kV line tripped on 24th November 2014	A severe thunderstorm		BETS-KGTS 220kV line	Exclusion force majeure events	FM event Report 24 Nov 2014
S1	lines outage rate - fault	A severe ice storm in Mt Beauty area	MBTS: BOPS MKPS 220 kV Line tripped (ice loading) 10/7/2014	A severe ice storm		MBTS-BOPS/MKPS 220 kV Line	Exclusion force majeure events	FM event Report 10 July 2014
S2	transformers outage rate - fault	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo terminal station	Power supply to Powercor customers supplied from No4 Bus at BETS was interrupted. The L4 transformer 22kV CB auto opened. This occurred three times as the customer did not isolate the fault.	Fault on customer installation		L4 transformer at BETS	Exclusion exclude from fault outages any outages shown to be primarily caused or initiated by a fault or other event on a third party system - customer installation	SIR 10439117
S2	transformers outage rate - fault	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo terminal station	Power supply to Powercor customers supplied from No4 Bus at BETS was interrupted. The L4 transformer 22kV CB auto opened. This occurred three times as the customer did not isolate the fault.	Fault on customer installation		L4 transformer at BETS	Exclusion exclude from fault outages any outages shown to be primarily caused or initiated by a fault or other event on a third party system - customer installation	SIR 10439117
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S3	Nil	NA	NA	NA		0 NA	NA	NA
S4	Nil	NA	NA	NA		0 NA	NA	NA
S5	Nil	NA	NA	NA		0 NA	NA	NA
S6	Nil	NA	NA	NA		0 NA	NA	NA

Parameter	LOS 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	Quantitative impact	Demand shed and time	Circuits affected	Maximum system demand	Reasons for exclusion request	Further references
s	Name of any LOS event parameters applying to AusNet Services	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	dd/mm/yy	hh:mm:ss	dd/mm/yy	hh:mm:ss	Hours+Minutes unavailable (min)	The (MW) demand shed and the duration it was shed for.	Name of circuits or plant affected	The max system demand that occurred up until the time of the event	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.	A TNSP may provide further details of an exclusion event. Please provide reference to any attachments submitted.
S7	No of events greater than 0.05 System Minutes	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo terminal station	Power supply to Powercor customers supplied from No4 Bus at BETS was interrupted. The L4 transformer 22kV CB auto opened. This occurred three times as the customer did not isolate the fault.	Fault on customer installation	31/12/14	23:54:00	1/01/15	01:31:00	1:37	1 12 MW for 97 minutes	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo terminal station	10446	Exclusion exclude from fault outages any outages shown to be primarily caused or initiated by a fault or other event on a third party system - customer installation	SIR 10439117

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	Hours+Minutes unavailable (min)	Quantitative impact	Capped impact	Circuits affected	Reasons for exclusion request	Further references
	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	dd/mm/yy	hh:mm:ss	dd/mm/yy	hh:mm:ss		Impact of exclusion event on AOD Parameter	Impact of capped exclusion event on AOD	Name of circuits or plant affected	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. Please provide reference to any attachments submitted.
	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo S9 terminal station	Power supply to Powercor customers supplied from No4 Bus at BETS was interrupted. The L4 transformer 22kV CB auto opened. This occurred three times as the customer did not isolate the fault.	Fault on customer installation	31/12/14	23:54:00	1/01/15	01:31:00	1:37		1	No4 22 kV Bus tripped Auto 31/12/2014 at Bendigo terminal	Exclusion exclude from fault outages any outages shown to be primarily caused or initiated by a fault or other event on a third party system - customer installation	

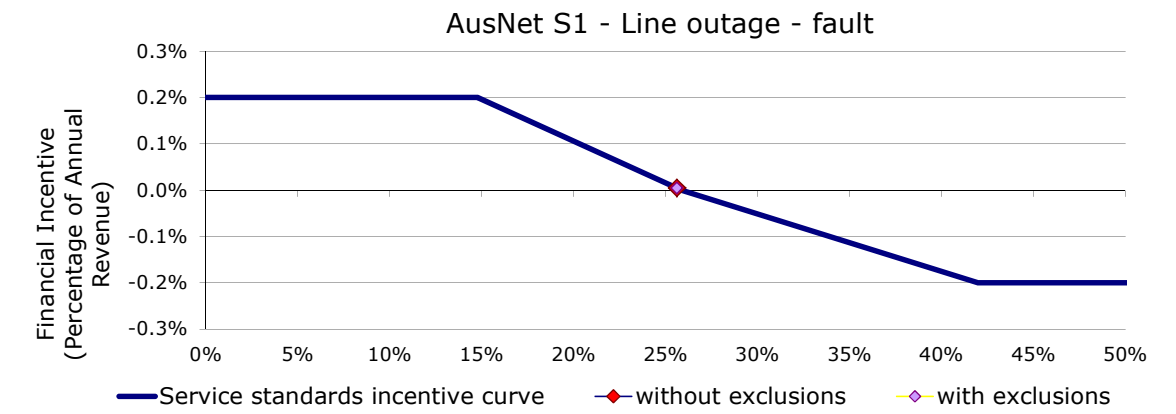
Parameter	Average circuit outage rate	Event proposed for exclusion	Description of the event and its impact on the network and performance	Cause of the event	Count of circuit events	Circuits affected	Reasons for exclusion request	Further references
	Name of any average circuit outage rate parameters applying to AusNet services	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	Identify the events that are to be excluded from the performance measure	Name of circuits affected	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. Please provide reference to any attachments submitted.
S1	Nil	NA	NA	NA	0	NA	NA	NA
S2	Nil	NA	NA	NA	0	NA	NA	NA
S3	Nil	NA	NA	NA	0	NA	NA	NA
S4	Nil	NA	NA	NA	0	NA	NA	NA
S5	Nil	NA	NA	NA	0	NA	NA	NA
S6	Nil	NA	NA	NA	0	NA	NA	NA

Parameter	LOS 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	Quantitative impact	Demand shed and time	Circuits affected	Maximum system demand	Reasons for exclusion request	Further references
	Name of any LOS event parameters applying to AusNet Services	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	dd/mm/yy	hh:mm:ss	dd/mm/yy	hh:mm:ss	Hours+Minutes unavailable (min)	The (MW) demand shed and the duration it was shed for.	Name of circuits or plant affected	The max system demand that occurred up until the time of the event	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 reference to any attachments definition (see Exclusion definition tab). Eg.	A TNSP may provide further details of an exclusion event. Please provide reference to any attachments submitted.
s									0:00					
S7									0:00					
SB									0:00					

AusNet - s1 - line outage - fault

Performance Targets					Performance Outcomes				
	Graph start	Collar	Target	Cap	Graph end			without exclusions	with exclusions
line outage - fault	62.0%	42.0%	25.9%	14.8%	0.0%	=		26%	26%
Weighting	-0.2000%	-0.2000%	0.0000%	0.2000%	0.2000%	=		0.01%	0.01%

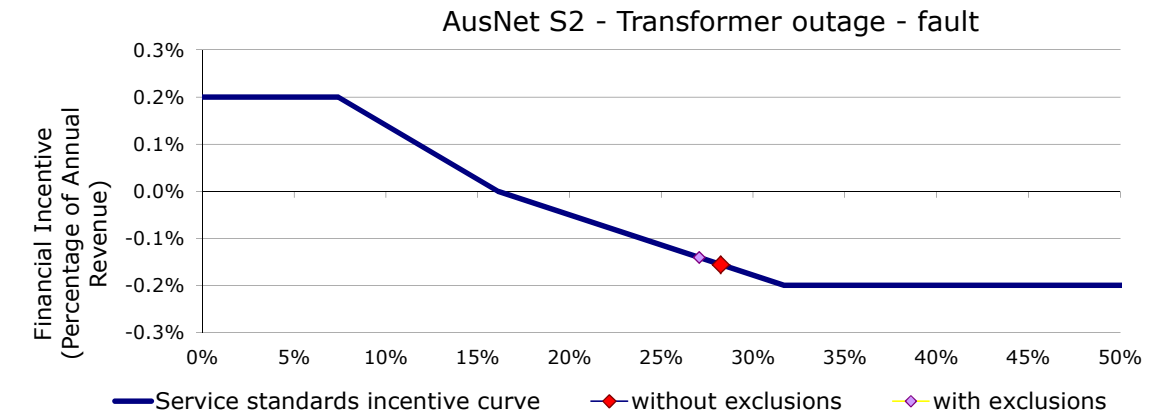
Performance Formulae					Performance Outcomes						
	Formulae					Conditions					
Performance	=	-0.0020				42.0% <	line outage		S- Calc 1	S- Calc 2	
	=	-0.0124	x	line outage	+	25.9% ≤	line outage	≤	42.0%	0.0000	0.0000
	=	-0.0180	x	line outage	+	14.8% ≤	line outage	≤	25.9%	0.0001	0.0001
	=	0.0020					line outage	<	14.8%	0.0020	0.0020



AusNet - s2 - transformer outage - fault

Performance Targets					Performance Outcomes				
	Graph start	Collar	Target	Cap	Graph end			without exclusions	with exclusions
transformer outage - fault	51.70%	31.70%	16.10%	7.40%	-12.60%	=		28%	27%
Weighting	-0.2000%	-0.2000%	0.0000%	0.2000%	0.2000%	=		-0.16%	-0.14%

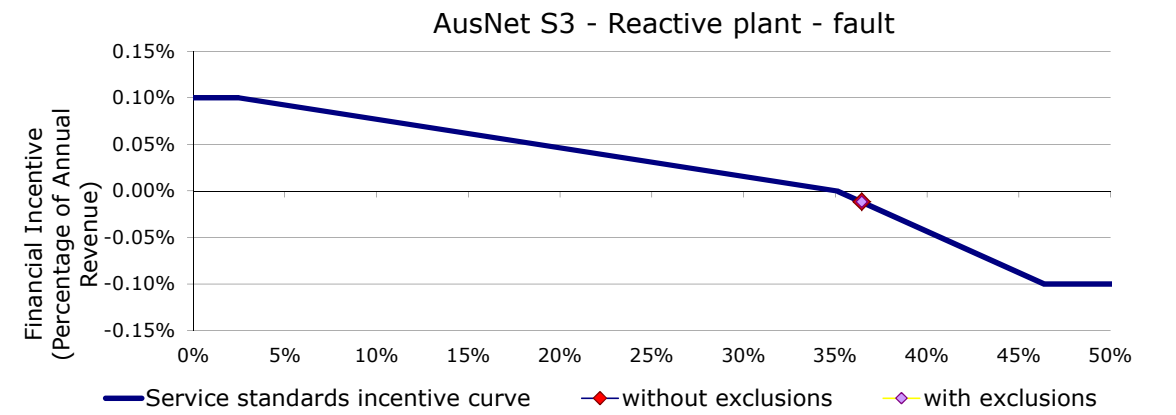
Performance Formulae					Performance Outcomes						
	Formulae					Conditions					
Performance	=	-0.0020				31.70% <	transformers outage		S- Calc 1	S- Calc 2	
	=	-0.0128	x	transformers ou	+	16.1% ≤	transformers outage	≤	31.7%	-0.0016	-0.0014
	=	-0.0230	x	transformers ou	+	7.4% ≤	transformers outage	≤	16.1%	-0.0028	-0.0025
	=	0.0020					transformers outage	<	7.4%	0.0020	0.0020



AusNet - s3 - reactive plant - fault

Performance Targets					Performance Outcomes				
	Graph start	Collar	Target	Cap	Graph end			without exclusions	with exclusions
reactive plant - fault	66.40%	46.40%	35.10%	2.50%	0.00%	=		36%	36%
Weighting	-0.10%	-0.10%	0.00%	0.10%	0.10%	=		-0.01%	-0.01%

Performance Formulae					Performance Outcomes						
	Formulae					Conditions					
Performance	=	-0.0010				46.40% ≤	reactive plant outage		S- Calc 1	S- Calc 2	
	=	-0.0088	x	reactive plant o	+	35.1% ≤	reactive plant outage	≤	46.4%	-0.0001	-0.0001
	=	-0.0031	x	reactive plant o	+	2.5% ≤	reactive plant outage	≤	35.1%	0.0000	0.0000
	=	0.0010					reactive plant outage	<	2.5%	0.0010	0.0010



AusNet - s4 - line outage - forced

Performance Targets					Performance Outcomes				
	Graph start	Collar	Target	Cap	Graph end			without exclusions	with exclusions
line outage - forced	17.50%	17.70%	14.90%	12.30%	12.50%	=		14%	14%
Weighting	0.00%	0.00%	0.00%	0.00%	0.00%	=		0.00%	0.00%

Performance Formulae					Performance Outcomes						
	Formulae					Conditions					
Performance	=	0.0000				17.70% ≤	line outage (force)		S- Calc 1	S- Calc 2	
	=	0.0000	x	line outage (fo	+	14.9% ≤	line outage (force)	≤	17.7%	0.0000	0.0000
	=	0.0000	x	line outage (fo	+	12.3% ≤	line outage (force)	≤	14.9%	0.0000	0.0000
	=	0.0000					line outage (force)	<	12.3%	0.0000	0.0000

AusNet - s5 - transformer outage - forced

Performance Targets						Performance Outcomes		without	with
	Graph start	Collar	Target	Cap	Graph end			exclusions	exclusions
transformer outage - forced	17.40%	17.60%	12.00%	6.20%	6.40%	transformer outage - forced	=	11%	11%
Weighting	0.00%	0.00%	0.00%	0.00%	0.00%	S-Factor	=	0.00%	0.00%

Performance Formulae						Conditions		S- Calc 1	S- Calc 2
	Formulae								
Performance	=	0.0000				17.60% ≤ transformers outage (force)		0.0000	0.0000
	=	0.0000	x	transformers ou	+	12.0% ≤ transformers outage (force ≤	17.6%	0.0000	0.0000
	=	0.0000	x	transformers ou	+	6.2% ≤ transformers outage (force ≤	12.0%	0.0000	0.0000
	=	0.0000				transformers outage (force <	6.2%	0.0000	0.0000

AusNet - s6 - reactive plant - forced

Performance Targets						Performance Outcomes		without	with
	Graph start	Collar	Target	Cap	Graph end			exclusions	exclusions
reactive plant - forced	32.50%	32.70%	15.40%	6.20%	6.40%	reactive plant - forced	=	37%	37%
Weighting	0.00%	0.00%	0.00%	0.00%	0.00%	S-Factor	=	0.00%	0.00%

Performance Formulae						Conditions		S- Calc 1	S- Calc 2
	Formulae								
Performance	=	0.0000				32.70% ≤ reactive plant outage (force)		0.0000	0.0000
	=	0.0000	x	reactive plant o	+	15.4% ≤ reactive plant outage (for ≤	32.7%	0.0000	0.0000
	=	0.0000	x	reactive plant o	+	6.2% ≤ reactive plant outage (for ≤	15.4%	0.0000	0.0000
	=	0.0000				reactive plant outage (for <	6.2%	0.0000	0.0000

AusNet - s7 - Loss of supply event frequency: >0.05 system minutes

Performance Targets

>0.05 system minutes
Weighting

Graph start	Collar	Target	Cap	Graph end
8	4.0	2.0	0.0	0
-0.00150	-0.00150	0.00000	0.00150	0.00150

Performance Outcomes

>0.05 system minutes
S-Factor

	without exclusions	with exclusions
=	2	1
=	0.00%	0.08%

Performance Formulae

Performance

Formulae

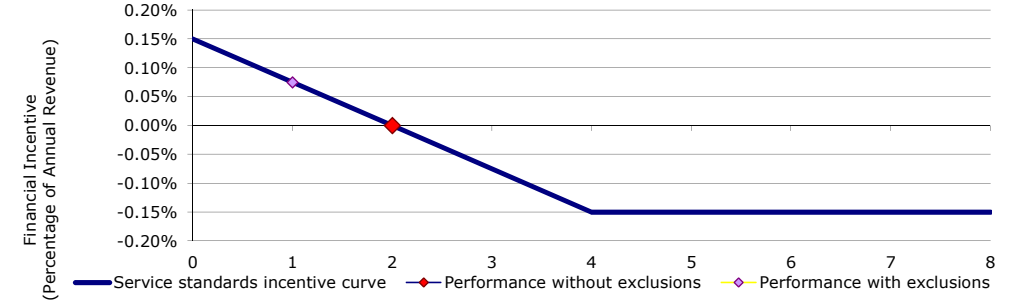
When:
4.0 <

Conditions

No. of events = 3
No. of events = 2
No. of events = 1
No. of events = 0

S- Calc 1	S- Calc 2
-0.0015	-0.0015
-0.0008	-0.0008
0.0000	0.0000
0.0008	0.0008
0.0015	0.0015

AusNet - S7 - Loss of supply event frequency: >0.05 system minutes



AusNet - s8 - Loss of supply event frequency: >0.3 system minutes

Performance Targets

>0.3 system minutes
Weighting

Graph start	Collar	Target	Cap	Graph end
4	2.0	1.0	0.0	0
-0.0015	-0.0015	0.0000	0.0015	0.0015

Performance Outcomes

>0.3 system minutes
S-Factor

	without exclusions	with exclusions
=	0	0
=	0.15%	0.15%

Performance Formulae

Performance

Formulae

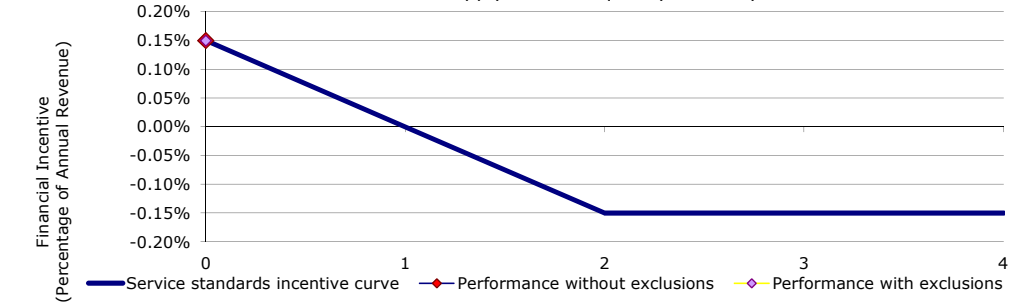
When:
2.0 <

Conditions

No. of events = 1
No. of events = 0

S- Calc 1	S- Calc 2
-0.0015	-0.0015
0.0000	0.0000
0.0015	0.0015

AusNet - S8 - Loss of supply event frequency: >0.3 system minutes



AusNet - s9 - Average outage duration

Performance Targets

	Graph start	Collar	Target	Cap	Graph end
Average outage duration	594	294	98	5	0
Weighting	-0.00200	-0.00200	0.00000	0.00200	0.00200

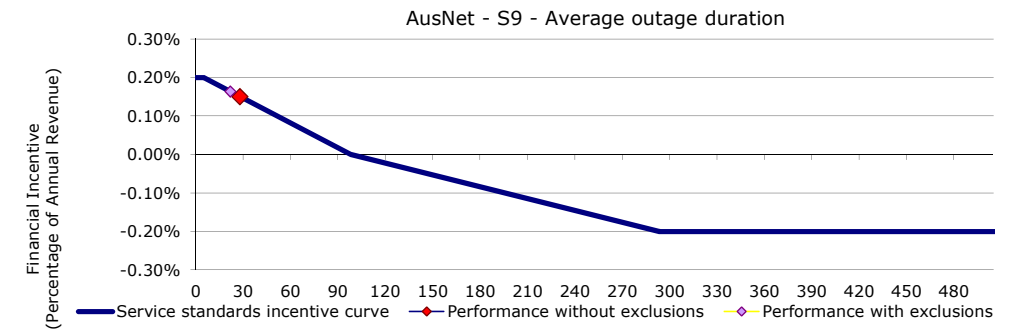
Performance Formulae

Formulae					
Performance	=	-0.0020			
	=	0.0000	x	No. of events	+ 0.0010
	=	0.0000	x	No. of events	+ 0.0021
	=	0.0020			

Performance Outcomes

		without exclusions	with exclusions
Average outage duration	=	28	22
S-Factor	=	0.15%	0.16%

When:		Conditions		S- Calc 1	S- Calc 2
294	<	No. of events		-0.0020	-0.0020
98	≤	No. of events	≤ 294	0.0007	0.0008
5	≤	No. of events	≤ 98	0.0015	0.0016
		No. of events	= 5	0.0020	0.0020



AusNet - Performance outcomes

Aggregate outcome

S-factor	0.242%
Financial Incentive	\$975,054
Financial year affected by financial incentive	2015-16

S	Performance parameter	Target	Performance without exclusions			Performance with exclusions			Impact of exclusions
			Performance	S-Factor	Final Incentive	Performance	S-Factor	Final Incentive	
s1	line outage - fault	25.90%	25.62%	0.01%	\$20,373	25.62%	0.01%	\$20,373	0.00%
s2	transformer outage - fault	16.10%	28.24%	-0.16%	-\$627,885	27.06%	-0.14%	-\$567,014	0.02%
s3	reactive plant - fault	35.10%	36.43%	-0.01%	-\$47,449	36.43%	-0.01%	-\$47,449	0.00%
s4	line outage - forced	14.90%	14.05%	0.00%	\$0	14.05%	0.00%	\$0	0.00%
s5	transformer outage - forced	12.00%	11.37%	0.00%	\$0	11.37%	0.00%	\$0	0.00%
s6	reactive plant - forced	15.40%	37.14%	0.00%	\$0	37.14%	0.00%	\$0	0.00%
s7	LOS >0.05 system minutes	2	2	0.00%	\$0	1	0.08%	\$302,681	0.08%
s8	LOS >0.3 system minutes	1	0	0.15%	\$605,363	0	0.15%	\$605,363	0.00%
s9	Average outage duration	98	28	0.15%	\$608,159	22	0.16%	\$661,101	0.01%
TOTALS				0.14%	\$558,560		0.24%	\$975,054	0.10%

Revenue calendar year: \$403,575,000