

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.

TransGrid - SERVICE STANDARDS PERFORMANCE

| Performance Inputs | | | | | | | |
|--------------------|-----------------------------------------------------|--------|--------|--------|-----------------|----------------------------------|-------------------------------|
| S | Performance parameter | Collar | Target | Cap | Revenue at Risk | Performance (Without exclusions) | Performance (With exclusions) |
| S1 | Transmission line availability | 99.05% | 99.26% | 99.36% | 0.20% | 98.66% | 99.04% |
| S2 | Transformer availability | 97.33% | 98.61% | 98.89% | 0.15% | 96.45% | 96.46% |
| S3 | Reactive plant availability | 98.65% | 99.12% | 99.33% | 0.10% | 95.76% | 95.76% |
| S4 | Loss of supply event frequency >0.05 system minutes | 7 | 4 | 2 | 0.250% | 3 | 3 |
| S5 | Loss of supply event frequency >0.25 system minutes | 2 | 1 | 0 | 0.100% | 0 | 0 |
| S6 | Average outage duration | 999 | 824 | 649 | 0.200% | 2116 | 2152.44 |

| Revenue Determination Inputs | |
|---------------------------------|-------------------|
| TNSP: | TransGrid |
| STPIS version: | March, 2008 |
| Regulatory Determination | 2009/10 - 2013/14 |
| Transitional year | 2014/15 |
| Base Year Allowed Revenue | \$678,400,000 |
| Base Year | 2009-10 |
| X-factor | -5.61% |
| Commencement of regulatory year | 1-Jul-09 |

| Other inputs | |
|-----------------------------------|-----------------|
| Assessment Period | 2014 |
| Financial year to affect revenue: | 2015/16 |
| Date prepared: | 27 January 2015 |
| Revision date: | |
| Network information | |
| No of circuits | 205.33 |
| No of transformers | 184.50 |
| No of reactive plant | 134.17 |

| Average outage duration information - performance without exclusions | |
|----------------------------------------------------------------------|--------|
| Number of events | 146 |
| Total unplanned outage duration (system minutes) | 308929 |

| Average outage duration information - performance with exclusions | |
|-------------------------------------------------------------------|--------|
| Number of excluded connection point events | 8 |
| Total unplanned outage duration (system minutes) | 297037 |
| Total number of connection point events | 138 |

| Other Inputs | | | | | | |
|-------------------------------|--------|--------|--------|--------|--------|--------|
| Annual revenue adjusted for C | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 | Mar-14 |
| CPI (old base) | 166.2 | 171.0 | 176.7 | 179.5 | | |
| CPI (new base) | 92.5 | 95.2 | 98.3 | 99.9 | 102.4 | 105.4 |

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.

TransGrid - 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 or plant 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. Exclusion 1.2 Third party event. | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| S1 | 159771 | 330kV Transmission Line U7 outage for work on Snowy Hydro Units 7 & 8 new Transformer T2 | Request from Snowy Hydro | 23/04/2014 | 7:50:00 | 13/06/2014 | 18:32:00 | 1234.700 | U7 Upper Tumut - Tumut 2 330kV TL | | 0.001 | Exclusion 1.2 Third party event | Excluded Outage 159771 - 330kV TL U7 - 23_04_2014.msg & Excluded Outage 159771 - 330kV TL U7 - 23_04_2014_Part1.msg & Excluded Outage 159771 - 330kV TL U7 - 23_04_2014_Part2.msg & Excluded Outage 159771 - 330kV TL U7 - 23_04_2014_Part3.msg |
| S1 | 157757 | 330kV Transmission Line U5 outage for U5 Line & 5-6 Transformer protection upgrade at Snowy Hydro generators | Request from Snowy Hydro | 7/10/2014 | 7:02:00 | 12/11/2014 | 15:17:00 | 872.250 | U5 Upper Tumut - Tumut 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 157757 - 330kV TL U5 - 07_10_2014.msg |
| S1 | 164968 | 330kV Transmission Line M1 outage for CB M32 Replacement on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 27/10/2014 | 7:05:00 | 14/11/2014 | 12:08:00 | 437.050 | M1 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 164968 - 330kV TL M1 - 27_10_2014.msg |
| S1 | 166166 | 132kV Transmission Line 9C5 outage to conduct project works requested by Ausgrid. | Request from Ausgrid | 30/06/2014 | 6:53:00 | 17/07/2014 | 15:09:00 | 416.267 | 9C5 Tomago330 - Brandy Hill 132kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 166166 - 132kV TL 9C5 - 30_06_2014.msg |
| S1 | 158983 | 330kV Transmission Line M9 outage for installation refurbished white phase transformer | Request from Snowy Hydro | 3/03/2014 | 6:31:00 | 19/03/2014 | 15:25:00 | 392.900 | M9 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 158983 - 330kV TL M9 - 03_03_2014.msg |
| S1 | 164080 | 330kV Transmission Line M9 outage for transformer blue phase replacement | Request from Snowy Hydro | 23/05/2014 | 8:15:00 | 4/06/2014 | 18:56:00 | 298.683 | M9 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 164080 - 330kV TL M9 - 23_05_2014.msg |
| S1 | 168922 | 330kV Transmission Line M7 outage for transformer white phase replacement on direct connected Snowy Hydro's Murray 1 Power Station units 7 and 8. | Request from Snowy Hydro | 12/08/2014 | 8:00:00 | 22/08/2014 | 13:50:00 | 245.833 | M7 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168922 - 330kV TL M7 - 12_08_2014.msg |
| S1 | 161190 | 330kV Transmission Line M13 outage for transformer maintenance and high voltage testing on direct connected Snowy Hydro's Murray 2 Power Station units 13 and 14. | Request from Snowy Hydro | 7/04/2014 | 13:14:00 | 15/04/2014 | 15:21:00 | 194.117 | M13 Murray - Murray 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 161190 - 330kV TL M13 - 07_04_2014.msg |
| S1 | 170414 | 330kV Transmission Line U7 outage for Transformer testing on Snowy Hydro's Tumut 2 Power Station Units 7 and 8. | Request from Snowy Hydro | 1/09/2014 | 9:04:00 | 8/09/2014 | 16:54:00 | 175.833 | U7 Upper Tumut - Tumut 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 170414 - 330kV TL U7 - 01_09_2014.msg |
| S1 | 162678 | 330kV Transmission Line M3 outage for work on direct connected Snowy Hydro's Murray 1 Power Station units 3 and 4. | Request from Snowy Hydro | 6/05/2014 | 12:21:00 | 12/05/2014 | 15:49:00 | 147.467 | M3 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162678 - 330kV TL M3 - 06_05_2014 |
| S1 | 177187 | 330kV Transmission Line M1 outage for replacing asbestos busbar phase barriers | Request from Snowy Hydro | 4/12/2014 | 11:58:00 | 10/12/2014 | 12:21:00 | 144.383 | M1 Murray - Murray 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 177187 - 330kV TL M1 - 4_12_2014.msg |
| S1 | 175303 | 330kV Transmission Line U1 outage for ACM (Asbestos Replacement) project Unit/Grp Phase barriers on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 6/11/2014 | 7:33:00 | 11/11/2014 | 12:14:00 | 124.683 | U1 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175303 - 330kV TL U1 - 06_11_2014.msg |
| S1 | 157841 | 330kV Transmission Line U5 outage for maintenance work | Request from Snowy Hydro | 20/02/2014 | 7:00:00 | 25/02/2014 | 11:29:00 | 124.483 | U5 Upper Tumut - Tumut 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 157841 - 330kV TL U5 - 20_02_2014.msg |
| S1 | 109229 | 330kV Transmission Line 8M outage for No.1 Prot Replacement requested by Powerlink | Request from Powerlink | 1/07/2014 | 11:40:00 | 6/07/2014 | 14:38:00 | 122.967 | 8M Dumaresq - Bulli Creek 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 109229 - 330kV TL 8M - 01_07_2014.msg |
| S1 | 178796 | 330kV Transmission Line U3 outage for Turbine testing on Snowy Hydro's Tumut 1 Power Station Units 3 and 4. | Request from Snowy Hydro | 12/12/2014 | 6:41:00 | 16/12/2014 | 15:47:00 | 105.100 | U3 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 178796 - 330kV TL U3 - 12_12_2014.msg |
| S1 | 109228 | 330kV Transmission Line 8L outage for protection work requested by Powerlink | Request from Powerlink | 13/10/2014 | 7:28:00 | 17/10/2014 | 11:02:00 | 99.567 | 8L Dumaresq - Bulli Creek 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 109228 - 330kV TL 8L - 13_10_2014.msg |
| S1 | 156586 | 330kV Transmission Line L1 outage for work on white phase Transformer on Snowy Hydro's Tumut 3 Power Station Units 1 and 2. | Request from Snowy Hydro | 4/02/2014 | 7:01:00 | 7/02/2014 | 9:22:00 | 74.350 | L1 Lower Tumut - Tumut 3 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156586 - 330kV TL L1 - 04_02_2014.msg |
| S1 | 180192 | 132kV Transmission Line 250 outage for condemned pole replacement & maintenance requested by Ausgrid | Request from Ausgrid | 28/12/2014 | 14:23:00 | 31/12/2014 | 15:04:00 | 72.683 | 250 Sydney North - Berowra 132kV Line | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 180192 - 132kV TL 250 - 28_12_2014.pdf |
| S1 | 158876 | 330kV Transmission Line U3 outage for installation of OPGW on Snowy Hydro's Tumut 1 Power Station Units 3 and 4. | Request from Snowy Hydro | 2/05/2014 | 12:21:00 | 5/05/2014 | 10:17:00 | 69.933 | U3 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 158876 159779 - 330kV Tls 64 U3 U1 - 02_05_2014.msg |
| S1 | 159779 | 330kV Transmission Line U1 outage for installation of OPGW on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 2/05/2014 | 12:21:00 | 5/05/2014 | 10:02:00 | 69.683 | U1 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 158876 159779 - 330kV Tls 64 U3 U1 - 02_05_2014.msg |
| S1 | 178795 | 330kV Transmission Line U1 outage for Turbine testing on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 12/12/2014 | 13:13:00 | 15/12/2014 | 9:31:00 | 68.300 | U1 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 178795 - 330kV TL U1 - 12_12_2014.msg |
| S1 | 158871 | 330kV Transmission Line U5 outage for installation of OPGW on Snowy Hydro's Tumut 2 Power Station Units 5 and 6. | Request from Snowy Hydro | 11/04/2014 | 14:05:00 | 14/04/2014 | 9:42:00 | 67.617 | U5 Upper Tumut - Tumut 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 158871 159770 - 330kV Tls U5 U7 - 11_04_2014.msg |
| S1 | 159770 | 330kV Transmission Line U7 outage for installation of OPGW on Snowy Hydro's Tumut 2 Power Station Units 7 and 8. | Request from Snowy Hydro | 11/04/2014 | 14:05:00 | 14/04/2014 | 9:42:00 | 67.617 | U7 Upper Tumut - Tumut 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 158871 159770 - 330kV Tls U5 U7 - 11_04_2014.msg |
| S1 | 173608 | 132kV Transmission Line 97L outage for Jindabyne Pumping Station three yearly service requested by Snowy Hydro. | Request from Snowy Hydro | 13/10/2014 | 7:32:00 | 15/10/2014 | 15:48:00 | 56.267 | 97L Gutheg - Jindabyne Pumps 132kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 173608 - 132kV TL 97L - 13_10_2014.msg |
| S1 | 169780 | 330kV Transmission Line U1 outage for isolator repair on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 20/08/2014 | 8:24:00 | 22/08/2014 | 16:22:00 | 55.967 | U1 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 169780 - 330kV TL U1 - 20_08_2014.msg |
| S1 | 170016 | 330kV Transmission Line U3 outage for work on transformer on Snowy Hydro's Tumut 1 Power Station Units 3 and 4. | Request from Snowy Hydro | 26/08/2014 | 8:14:00 | 28/08/2014 | 16:10:00 | 55.933 | U3 Upper Tumut - Tumut 1 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 170016 - 330kV TL U3 - 26_08_2014.msg |
| S1 | 162810 | 330kV Transmission Line L5 outage for work on Transformer C2 on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 13/05/2014 | 7:33:00 | 15/05/2014 | 15:17:00 | 55.733 | L5 Lower Tumut - Tumut 3 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162810 - 330kV TL L5 - 13_05_2014.msg |
| S1 | 162439 | 330kV Transmission Line M11 outage for work on Transformer C3 on direct connected Snowy Hydro's Murray 2 Power Station units 11 and 12. | Request from Snowy Hydro | 30/04/2014 | 10:06:00 | 2/05/2014 | 16:03:00 | 53.950 | M11 Murray - Murray 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162439 - 330kV TL M11 - 30_04_2014.msg |
| S1 | 163480 | 330kV Transmission Line L3 outage for work on Transformer C2 on Snowy Hydro's Tumut 3 Power Station Units 3 and 4. | Request from Snowy Hydro | 20/05/2014 | 8:04:00 | 22/05/2014 | 13:46:00 | 53.700 | L3 Lower Tumut - Tumut 3 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 163480 - 330kV TL L3 - 20_05_2014.msg |
| S1 | 175514 | 330kV Transmission Line M13 outage to repair white phase Transformer oil leak on direct connected Snowy Hydro's Murray 2 Power Station units 13 and 14. | Request from Snowy Hydro | 17/11/2014 | 7:31:00 | 19/11/2014 | 12:19:00 | 52.800 | M13 Murray - Murray 2 330kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175514 - 330kV TL M13 - 17_11_2014.msg |
| S1 | 169022 | 132kV Transmission Line O97B outage for erection of scaffold at Blowering Substation requested by Snowy Hydro. | Request from Snowy Hydro | 5/08/2014 | 9:37:00 | 7/08/2014 | 9:31:00 | 47.900 | O97B Tumut - Blowering 132kV TL | | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 169022 - 132kV TL O97B - 05_08_2014.msg |

| | | | | | | | | | | | | | |
|----|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|----------|------------|----------|--------|--------------------------------------------------|-------|---------------------------------|-------------------------------------------------------------------------------------------|
| S1 | | 180019 | 132kV Transmission Line 250 outage for condemned pole replacement & maintenance requested by Ausgrid | Request from Ausgrid | 21/12/2014 | 16:54:00 | 23/12/2014 | 15:09:00 | 46.250 | 250 Sydney North - Berowra 132kV Line | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 180019 - 132kV TL 250 - 21_12_2014.pdf |
| S1 | | 155812 | 132kV Transmission Line 932 outage for protection calibration maintenance requested by Endeavour Energy | Request from Endeavour Energy | 6/02/2014 | 5:47:00 | 7/02/2014 | 16:36:00 | 34.817 | 932 Sydney West - Mt Druitt 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155812 - 132kV TL 932 - 06_02_2014.msg |
| S1 | | 156438 | 330kV Transmission Line U1 outage for isolator repair on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 30/01/2014 | 6:28:00 | 31/01/2014 | 13:52:00 | 31.400 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156438 - 330kV TL U1 - 30_01_2014.msg |
| S1 | | 160917 | 330kV Transmission Line U3 outage for installation of barriers and oil sampling point on Snowy Hydro's Tumut 1 Power Station Units 3 and 4. | Request from Snowy Hydro | 9/04/2014 | 12:42:00 | 10/04/2014 | 17:23:00 | 28.683 | U3 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 160917 - 330kV TL U3 - 09_04_2014.msg |
| S1 | | 175632 | 330kV Transmission Line U7 outage for transformer changeover and commissioning on Snowy Hydro's Tumut 2 Power Station Units 7 and 8. | Request from Snowy Hydro | 28/11/2014 | 7:37:00 | 29/11/2014 | 12:13:00 | 28.600 | U7 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175632 - 330kV TL U7 - 28_11_2014.msg |
| S1 | | 160916 | 330kV Transmission Line U1 outage for work on installation of barrier and oil sampling points on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 8/04/2014 | 8:43:00 | 9/04/2014 | 12:33:00 | 27.833 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 160916 - 330kV TL U1 - 08_04_2014.msg |
| S1 | | 157969 | 132kV Transmission Line 250 outage for transformer repairs, circuit breaker & protection maintenance requested by Ausgrid | Request from Ausgrid | 17/02/2014 | 16:19:00 | 18/02/2014 | 16:10:00 | 23.850 | 250 Sydney North - Berowra 132kV Line | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 157969 - 132kV TL 250 - 17_02_2014.msg |
| S1 | | 157148 | 132kV Transmission Line 963 unplanned outage due to line trip caused by storms in the area. | Fault on Essential Energy network | 1/02/2014 | 18:51:00 | 2/02/2014 | 15:12:00 | 20.350 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 157148 - 132kV TL 963 - 01_02_2014.png |
| S1 | | 170598 | 330kV Transmission Line M13 unplanned outage due to line trip caused by protection operation at direct connected unit 13/14 transformer | Snowy Hydro equipment fault | 25/08/2014 | 23:20:00 | 26/08/2014 | 16:19:00 | 16.983 | M13 Murray - Murray 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 170598 - 330kV TL M13 - 25_08_2014.png |
| S1 | | 172188 | 330kV Transmission Line O60 outage for relocating subsidiary 66kV circuit & protection work | Request from Ausnet Services | 22/10/2014 | 5:49:00 | 22/10/2014 | 22:47:00 | 16.967 | O60 Jindera - Wodonga 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172188 - 330kV TL O60 - 22_10_2014.msg |
| S1 | | 172189 | 330kV Transmission Line O60 outage for relocating subsidiary 66kV circuit & protection work | Request from Ausnet Services | 24/10/2014 | 5:48:00 | 24/10/2014 | 22:03:00 | 16.250 | O60 Jindera - Wodonga 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172189 - 330kV TL O60 - 24_10_2014.msg |
| S1 | | 156656 | 220kV Transmission Line OX1 outage for protection change over | Request from SP-Ausnet | 15/02/2014 | 6:11:00 | 15/02/2014 | 20:59:00 | 14.800 | OX1 Buronga - Red Cliffs 220kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156656 - 220kV TL OX1 - 15_02_2014.msg |
| S1 | | 155543 | 132kV Transmission Line 96F outage to string overcrossing of TransGrid 330 | Request from Ausgrid | 15/01/2014 | 5:11:00 | 15/01/2014 | 18:04:00 | 12.883 | 96F Stroud - Tomago 330 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155543 - 132kV TL 96F - 15_01_2014.msg |
| S1 | | 166156 | to reconductor 11kV mains at 132kV undercrossing sites | Request from Essential Energy | 20/06/2014 | 6:09:00 | 20/06/2014 | 17:08:00 | 10.983 | 96P Taree - Stroud 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 166156 - 132kV TL 96P - 20_06_2014.msg |
| S1 | | 155539 | 132kV Transmission Line 96F outage to string overcrossing of TransGrid 330 | Request from Ausgrid | 13/01/2014 | 5:36:00 | 13/01/2014 | 16:15:00 | 10.650 | 96F Stroud - Tomago 330 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155539 - 132kV TL 96F - 13_01_2014.msg |
| S1 | | 163171 | 330kV Transmission Line 37 outage for standing poles 85-86 & string clip of feeder 512 which runs under line | Request from Endeavour Energy | 15/05/2014 | 6:13:00 | 15/05/2014 | 16:37:00 | 10.400 | 37 Macarthur - Kemps Ck 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 163171 - 330kV TL 37 - 15_05_2014.msg |
| S1 | | 158554 | 132kV Transmission Line 963 outage for replacement of Hunter district water board pole | Request from Ausgrid | 10/03/2014 | 7:03:00 | 10/03/2014 | 17:27:00 | 10.400 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 158554 - 132kV TL 963 - 10_03_2014.msg |
| S1 | | 163170 | 330kV Transmission Line 37 outage for standing poles 85-86 & string clip of feeder 512 which runs under line | Request from Endeavour Energy | 14/05/2014 | 7:07:00 | 14/05/2014 | 17:26:00 | 10.317 | 37 Macarthur - Kemps Ck 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 163170 - 330kV TL 37 - 14_05_2014.msg |
| S1 | | 156230 | 330kV Transmission Line 96F outage for contractor stringing new mains over 132kV feeders | Request from Ausgrid | 19/01/2014 | 7:00:00 | 19/01/2014 | 17:13:00 | 10.217 | 96F Stroud - Tomago 330 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156230 - 132kV TL 96F - 19_01_2014.msg |
| S1 | | 168156 | 132kV Transmission Line 963 outage for replacement of Hunter district water board pole | Request from Ausgrid | 6/08/2014 | 7:50:00 | 6/08/2014 | 17:54:00 | 10.067 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168156 - 132kV TL 963 - 06_08_2014.msg |
| S1 | | 163595 | 330kV Transmission Line 13 outage for standing poles & string clip of feeder 512 which runs under line | Request from Endeavour Energy | 26/05/2014 | 9:03:00 | 26/05/2014 | 18:59:00 | 9.933 | 13 Sydney South - Kemps Creek 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 163595 - 330kV TL 13 - 26_05_2014.msg |
| S1 | | 174717 | 132kV Transmission Line 939 outage for maintenance on 132kV isol, east switch and voltage transformers at Mare Zone substation | Request from Endeavour Energy | 23/10/2014 | 5:44:00 | 23/10/2014 | 15:06:00 | 9.367 | 939 Sydney West - Mamre 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 174717 - 132kV TL 939 - 23_10_2014.msg |
| S1 | | 173793 | 132kV Transmission Line 939 outage for protection maintenance at Mamre zone substation | Request from Endeavour Energy | 4/11/2014 | 5:13:00 | 4/11/2014 | 14:15:00 | 9.033 | 939 Sydney West - Mamre 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 173793 - 132kV TL 939 - 04_11_2014.msg |
| S1 | | 172393 | 132kV Transmission Line 963 outage to replace earth wire between poles JS50132 & JS50179 | Request from Ausgrid | 9/10/2014 | 6:43:00 | 9/10/2014 | 15:33:00 | 8.833 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172393 - 132kV TL 963 - 09_10_2014.msg |
| S1 | | 156818 | 132kV Transmission Line 963 outage for emergency tree clearing at pole KR-89100 | Request from Ausgrid | 30/01/2014 | 6:26:00 | 30/01/2014 | 15:14:00 | 8.800 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156818 - 132kV TL 963 - 30_01_2014.msg |
| S1 | | 172133 | 132kV Transmission Line 963 outage for clearance for work below the line | Request from Ausgrid | 10/10/2014 | 7:12:00 | 10/10/2014 | 15:58:00 | 8.767 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172133 - 132kV TL 963 - 10_10_2014.msg |
| S1 | | 169289 | 330kV Transmission Line M9 outage for work on white phase transformer on direct connected Snowy Hydro's Murray 1 Power Station units 9 and 10. | Request from Snowy Hydro | 19/08/2014 | 8:04:00 | 19/08/2014 | 16:46:00 | 8.700 | M9 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 169289 - 330kV TL M9 - 19_08_2014.msg |
| S1 | | 176625 | 132kV Transmission Line 96C outage for emergency works on customer line 703 which is in close proximity to line 96C | Request from Essential Energy | 14/11/2014 | 7:01:00 | 14/11/2014 | 15:29:00 | 8.467 | 96C Armidale - Coffs Harbour Tee Dorrig 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 176625 - 132kV TL 96C - 14_11_2014.msg |
| S1 | | 158630 | 330kV Transmission Line L3 outage for work to carryout inspection of Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 3 and 4. | Request from Snowy Hydro | 20/03/2014 | 7:07:00 | 20/03/2014 | 15:09:00 | 8.033 | L3 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 158630 - 330kV TL L3 - 20_03_2014.msg |
| S1 | Transmission line availability | 166925 | 132kV Transmission Line 97L outage for work on pump booster motor at Jindabyne Pumping Station substation | Request from Snowy Hydro | 3/07/2014 | 8:42:00 | 3/07/2014 | 16:41:00 | 7.983 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 166925 - 132kV TL 97L - 03_07_2014.msg |
| S1 | | 163596 | 330kV Transmission Line 13 outage for standing poles & string clip of feeder 512 which runs under line | Request from Endeavour Energy | 27/05/2014 | 9:02:00 | 27/05/2014 | 16:46:00 | 7.733 | 13 Sydney South - Kemps Creek 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 163596 - 330kV TL 13 - 27_05_2014.msg |
| S1 | | 159374 | 132kV Transmission Line 94X outage for reconductoring 11kV undercrossing work | Request from Essential Energy | 21/03/2014 | 7:08:00 | 21/03/2014 | 14:49:00 | 7.683 | 94X Wallerawang 132 - Panorama 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 159374 - 132kV TL 94X - 21_03_2014.msg |
| S1 | | 160032 | 330kV Transmission Line L5 outage for work to carryout inspection of Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 15/04/2014 | 8:09:00 | 15/04/2014 | 15:46:00 | 7.617 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 160032 - 330kV TL L5 - 15_04_2014.msg |
| S1 | | 156474 | 132kV Transmission Line 963 outage for fault finding on line | Request from Ausgrid | 22/01/2014 | 6:48:00 | 22/01/2014 | 14:24:00 | 7.600 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156474 - 132kV TL 963 - 22_01_2014.msg |
| S1 | | 177036 | 330kV Transmission Line L5 outage for work to carryout inspection of Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 3/12/2014 | 7:02:00 | 3/12/2014 | 14:06:00 | 7.067 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 177036 - 330kV TL L5 - 3_12_2014.msg |
| S1 | | 159330 | 330kV Transmission Line 23 outage for work on Generator bus as part of the black start procedure for VP Unit 6 | Request from Delta Electricity | 6/05/2014 | 10:07:00 | 6/05/2014 | 17:00:00 | 6.883 | 23 Munmorah - Vales Point 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 159330 163246 163250 163251 - Delta Black Start Testing - 06_05_2014.msg |
| S1 | | 168519 | 330kV Transmission Line U5 outage for preliminary inspection for work in September | Request from Snowy Hydro | 5/08/2014 | 8:59:00 | 5/08/2014 | 15:39:00 | 6.667 | U5 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168519 - 330kV TL U5 - 05_08_2014.msg |
| S1 | | 163251 | 132kV Transmission Line 957 outage for Black start test | Request from Delta Electricity | 6/05/2014 | 10:22:00 | 6/05/2014 | 17:00:00 | 6.633 | 957 Vales Pt - Ourimbah tee Morisset 132kV Line | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 159330 163246 163250 163251 - Delta Black Start Testing - 06_05_2014.msg |

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|----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------|----------|------------|----------|-------|----------------------------------------------------|-------|---------------------------------|---------------------------------------------------------------------------------------|
| S1 | 173601 | 330kV Transmission Line M11 outage for work to carryout inspection of Type 5 Duresca busbars on direct connected Snowy Hydro's Murray 2 Power Station units 11 and 12 | Request from Snowy Hydro | 15/10/2014 | 7:17:00 | 15/10/2014 | 13:28:00 | 6.183 | M11 Murray - Murray 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 173601- 330kV TL M11 - 15_10_2014.msg |
| S1 | 167130 | 132kV Transmission Line 96F outage for project work | Request from Essential Energy | 9/07/2014 | 9:39:00 | 9/07/2014 | 15:48:00 | 6.150 | 96F Stroud - Tomago 330 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 167130 - 132kV TL 96F - 09_07_2014.msg |
| S1 | 155115 | 330kV Transmission Line U3 outage for Black start test on Snowy Hydro's Tumut 1 Power Station Units 5 and 6. | Request from Snowy Hydro | 23/03/2014 | 7:52:00 | 23/03/2014 | 13:48:00 | 5.933 | U3 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155109 155113 155114 155115 - 330kV Tls 64 U3 U5 U5 - 23_03_2014.msg |
| S1 | 169835 | 132kV Transmission Line 996 outage to repair failed protection systems | Request from Essential Energy | 12/08/2014 | 10:21:00 | 12/08/2014 | 16:17:00 | 5.933 | 996 Wagga 330 - ANM tee Morven 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 169835 - 132kV TL 996 - 12_08_2014.png |
| S1 | 155109 | 330kV Transmission Line L5 outage for work to carryout inspection of Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 23/03/2014 | 8:01:00 | 23/03/2014 | 13:49:00 | 5.800 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155109 155113 155114 155115 - 330kV Tls 64 U3 U5 U5 - 23_03_2014.msg |
| S1 | 155114 | 330kV Transmission Line U5 outage for Black start test on Snowy Hydro's Tumut 2 Power Station Units 5 and 6. | Request from Snowy Hydro | 23/03/2014 | 8:00:00 | 23/03/2014 | 13:48:00 | 5.800 | U5 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155109 155113 155114 155115 - 330kV Tls 64 U3 U5 U5 - 23_03_2014.msg |
| S1 | 179181 | 132kV Transmission Line 97L outage to investigate DNP3 communications problems requested by Snowy Hydro. | Request from Snowy Hydro | 9/12/2014 | 10:15:00 | 9/12/2014 | 15:36:00 | 5.350 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 179181 - 132kV TL 97L - 9_12_2014.msg |
| S1 | 173602 | 330kV Transmission Line L3 outage for work to carryout inspection of Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 3 and 4. | Request from Snowy Hydro | 14/10/2014 | 8:22:00 | 14/10/2014 | 13:43:00 | 5.350 | L3 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 173602 - 330kV TL L3 - 14_10_2014.msg |
| S1 | 168923 | 330kV Transmission Line M9 outage for work on white phase transformer on direct connected Snowy Hydro's Murray 1 Power Station units 9 and 10. | Request from Snowy Hydro | 12/08/2014 | 9:48:00 | 12/08/2014 | 15:02:00 | 5.233 | M9 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168923 - 330kV TL M9 - 12_08_2014.msg |
| S1 | 172572 | 330kV Transmission Line U7 outage for commissioning to the UTSS B busbar on Snowy Hydro's Tumut 2 Power Station Units 7 and 8. | Request from Snowy Hydro | 25/09/2014 | 8:50:00 | 25/09/2014 | 13:55:00 | 5.083 | U7 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172572 - 330kV TL U7 - 25_09_2014.msg |
| S1 | 162216 | 132kV Transmission Line 97L unplanned outage due to line trip caused by Snowy Hydro staff working at Jindabyne Pumping Station substation. | Snowy Hydro staff error | 15/04/2014 | 9:09:00 | 15/04/2014 | 13:55:00 | 4.767 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162216 - 132kV TL 97L - 15_04_2014.pdf |
| S1 | 162807 | 330kV Transmission Line L1 outage for work to apply condensate shields to Type 5 Duresca busbars on Snowy Hydro's Tumut 3 Power Station Units 1 and 2. | Request from Snowy Hydro | 8/05/2014 | 7:47:00 | 8/05/2014 | 12:15:00 | 4.467 | L1 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162807- 330kV TL L1 - 08_05_2014.msg |
| S1 | 155113 | 330kV Transmission Line 64 outage for Black start test. | Request from Snowy Hydro | 23/03/2014 | 7:34:00 | 23/03/2014 | 11:55:00 | 4.350 | 64 Lower Tumut - Upper Tumut 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155109 155113 155114 155115 - 330kV Tls 64 U3 U5 U5 - 23_03_2014.msg |
| S1 | 155101 | 330kV Transmission Line 64 outage for Black start test. | Request from Snowy Hydro | 16/03/2014 | 7:28:00 | 16/03/2014 | 11:35:00 | 4.150 | 64 Lower Tumut - Upper Tumut 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155098 155099 155100 155101 - 330kV Tls 64 U3 U5 U5 - 16_03_2014.msg |
| S1 | 156762 | 330kV Transmission Line M5 outage for inspection of connections after heat run. | Request from Snowy Hydro | 4/02/2014 | 6:55:00 | 4/02/2014 | 11:04:00 | 4.150 | M5 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156762 - 330kV TL M5 - 04_02_2014.msg |
| S1 | 155100 | 330kV Transmission Line L5 outage for Black start test on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 16/03/2014 | 7:29:00 | 16/03/2014 | 11:35:00 | 4.100 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155098 155099 155100 155101 - 330kV Tls 64 U3 U5 U5 - 16_03_2014.msg |
| S1 | 155099 | 330kV Transmission Line U5 outage for Black start test on Snowy Hydro's Tumut 2 Power Station Units 5 and 6. | Request from Snowy Hydro | 16/03/2014 | 7:29:00 | 16/03/2014 | 11:35:00 | 4.100 | U5 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155098 155099 155100 155101 - 330kV Tls 64 U3 U5 U5 - 16_03_2014.msg |
| S1 | 155098 | 330kV Transmission Line U3 outage for Black start test on Snowy Hydro's Tumut 1 Power Station Units 3 and 4. | Request from Snowy Hydro | 16/03/2014 | 7:29:00 | 16/03/2014 | 11:35:00 | 4.100 | U3 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 155098 155099 155100 155101 - 330kV Tls 64 U3 U5 U5 - 16_03_2014.msg |
| S1 | 171033 | 330kV Transmission Line M9 outage for work on conservator pipework oil leak repair on direct connected Snowy Hydro's Murray 1 Power Station units 9 and 10. | Request from Snowy Hydro | 30/08/2014 | 11:37:00 | 30/08/2014 | 15:31:00 | 3.900 | M9 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 171033 - 330kV TL M9 - 30_08_2014.msg |
| S1 | 174192 | 132kV Transmission Line 9C8 outage for taking oil sample from CT T13 at Stroud Road Zone substation | Request from Essential Energy | 10/10/2014 | 6:05:00 | 10/10/2014 | 9:55:00 | 3.833 | 9C8 Brandy Hill - Stroud 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 174192 - 132kV TL 9C8 - 10_10_2014.msg |
| S1 | 165317 | 132kV Transmission Line 97L outage for Black start test requested by Snowy Hydro. | Request from Snowy Hydro | 1/06/2014 | 9:07:00 | 1/06/2014 | 12:54:00 | 3.783 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165317 155087 165330 165331 - SHL Black Start Testing - 01_06_14.msg |
| S1 | 160189 | 132kV Transmission Line 964 outage for fault repairs at Herons Creek Zone substation | Request from Essential Energy | 25/03/2014 | 7:27:00 | 25/03/2014 | 11:11:00 | 3.733 | 964 Pt Macquarie - Taree Tee Herons Creek 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 160189 - 132kV TL 964 - 25_03_2014.msg |
| S1 | 156282 | 330kV Transmission Line M5 outage for protection commissioning. | Request from Snowy Hydro | 23/01/2014 | 7:46:00 | 23/01/2014 | 11:14:00 | 3.467 | M5 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 156282 - 330kV TL M5 - 23_01_2014.msg |
| S1 | 164410 | 132kV Transmission Line 97L outage for Black start test requested by Snowy Hydro. | Request from Snowy Hydro | 18/05/2014 | 9:47:00 | 18/05/2014 | 13:14:00 | 3.450 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 164410 164387 150673 164394 - SHL Black Start Testing - 18_05_14.msg |
| S1 | 165287 | 330kV Transmission Line M1 outage for SHL staff HV training on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 24/06/2014 | 12:59:00 | 24/06/2014 | 16:22:00 | 3.383 | M1 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165280 165286 165287 - 330kV TL M1 - 24_06_2014.msg |
| S1 | 162636 | 330kV Transmission Line U5 outage to complete running of fibre optic cable on Snowy Hydro's Tumut 2 Power Station Units 5 and 6. | Request from Snowy Hydro | 30/04/2014 | 13:11:00 | 30/04/2014 | 16:32:00 | 3.350 | U5 Upper Tumut - Tumut 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 162636 - 330kV TL U5 - 30_04_2014.msg |
| S1 | 176118 | 132kV Transmission Line 96C unplanned outage due to arcing along the line in the tee section towards Dorrigo | Fault on Essential Energy network | 5/11/2014 | 20:16:00 | 5/11/2014 | 23:31:00 | 3.250 | 96C Armidale - Coffs Harbour Tee Dorrigo 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 176118 - 132kV TL 96C - 05_11_2014.png |
| S1 | 165331 | 330kV Transmission Line M7 outage for Black start test on direct connected Snowy Hydro's Murray 1 Power Station units 7 and 8. | Request from Snowy Hydro | 1/06/2014 | 9:11:00 | 1/06/2014 | 12:25:00 | 3.233 | M7 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165317 155087 165330 165331 - SHL Black Start Testing - 01_06_14.msg |
| S1 | 155087 | 330kV Transmission Line M13 outage for Black start test on direct connected Snowy Hydro's Murray 2 Power Station units 13 and 14. | Request from Snowy Hydro | 1/06/2014 | 9:11:00 | 1/06/2014 | 12:25:00 | 3.233 | M13 Murray - Murray 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165317 155087 165330 165331 - SHL Black Start Testing - 01_06_14.msg |
| S1 | 165330 | 330kV Transmission Line M1 outage for Black start test on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 1/06/2014 | 9:11:00 | 1/06/2014 | 12:25:00 | 3.233 | M1 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165317 155087 165330 165331 - SHL Black Start Testing - 01_06_14.msg |
| S1 | 164387 | 330kV Transmission Line M1 outage for Black start test on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 18/05/2014 | 10:14:00 | 18/05/2014 | 13:03:00 | 2.817 | M1 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 164410 164387 150673 164394 - SHL Black Start Testing - 18_05_14.msg |
| S1 | 164394 | 330kV Transmission Line M7 outage for Black start test on direct connected Snowy Hydro's Murray 1 Power Station units 7 and 8. | Request from Snowy Hydro | 18/05/2014 | 10:16:00 | 18/05/2014 | 13:03:00 | 2.783 | M7 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 164410 164387 150673 164394 - SHL Black Start Testing - 18_05_14.msg |
| S1 | 150673 | 330kV Transmission Line M13 outage for Black start test on direct connected Snowy Hydro's Murray 2 Power Station units 13 and 14. | Request from Snowy Hydro | 18/05/2014 | 10:16:00 | 18/05/2014 | 13:03:00 | 2.783 | M13 Murray - Murray 2 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 164410 164387 150673 164394 - SHL Black Start Testing - 18_05_14.msg |
| S1 | 165280 | 330kV Transmission Line M1 outage for HV switching training for SHL staff on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 24/06/2014 | 8:06:00 | 24/06/2014 | 10:51:00 | 2.750 | M1 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165280 165286 165287 - 330kV TL M1 - 24_06_2014.msg |
| S1 | 175375 | 330kV Transmission Line U1 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 26/11/2014 | 7:56:00 | 26/11/2014 | 10:27:00 | 2.517 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175375 - 330kV TL U1 - 26_11_2014.msg |

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| S1 | | 175380 | 330kV Transmission Line U1 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 27/11/2014 | 8:47:00 | 27/11/2014 | 11:11:00 | 2.400 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175380 - 330kV TL U1 - 27_11_2014.msg |
| S1 | | 165290 | 330kV Transmission Line L5 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 19/06/2014 | 11:33:00 | 19/06/2014 | 13:52:00 | 2.317 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165290 165289 - 330kV TL L5 - 19_06_2014.msg |
| S1 | | 165289 | 330kV Transmission Line L5 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 3 Power Station Units 5 and 6. | Request from Snowy Hydro | 19/06/2014 | 8:55:00 | 19/06/2014 | 11:02:00 | 2.117 | L5 Lower Tumut - Tumut 3 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165290 165289 - 330kV TL L5 - 19_06_2014.msg |
| S1 | | 166020 | 132kV Transmission Line 97L outage for Jindabyne Pumping Station substation fire system debug test requested by Snowy Hydro. | Request from Snowy Hydro | 17/06/2014 | 9:10:00 | 17/06/2014 | 11:05:00 | 1.917 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 166020 - 132kV TL 97L - 17_06_2014.msg |
| S1 | | 175376 | 330kV Transmission Line U1 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 27/11/2014 | 7:01:00 | 27/11/2014 | 8:41:00 | 1.667 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175376 - 330kV TL U1 - 27_11_2014.msg |
| S1 | | 175381 | 330kV Transmission Line U1 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 26/11/2014 | 12:13:00 | 26/11/2014 | 13:49:00 | 1.600 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175381 - 330kV TL U1 - 26_11_2014.msg |
| S1 | | 165286 | 330kV Transmission Line M1 outage for HV switching training for SHL staff on direct connected Snowy Hydro's Murray 1 Power Station units 1 and 2. | Request from Snowy Hydro | 24/06/2014 | 11:11:00 | 24/06/2014 | 12:39:00 | 1.467 | M1 Murray - Murray 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 165280 165286 165287 - 330kV TL M1 - 24_06_2014.msg |
| S1 | | 164425 | 132kV Transmission Line 947 outage for maintenance work on tee section of line to Burrendong | Request from Essential Energy | 30/06/2014 | 9:43:00 | 30/06/2014 | 11:07:00 | 1.400 | 947 Wellington - Orange North tee Burrendong 132kV Line | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 164425 - 132kV TL 947 - 30_06_2014.msg |
| S1 | | 175378 | 330kV Transmission Line U1 outage for HV switching training for SHL staff on Snowy Hydro's Tumut 1 Power Station Units 1 and 2. | Request from Snowy Hydro | 26/11/2014 | 11:09:00 | 26/11/2014 | 12:11:00 | 1.033 | U1 Upper Tumut - Tumut 1 330kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 175378 - 330kV TL U1 - 26_11_2014.msg |
| S1 | | 172144 | 132kV Transmission Line 996 outage for work on customer network to move open point | Request from Essential Energy | 1/10/2014 | 7:03:00 | 1/10/2014 | 7:33:00 | 0.500 | 996 Wagga 330 - ANM tee Morven 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 172144 - 132kV TL 996 - 01_10_2014.msg |
| S1 | | 164426 | 132kV Transmission Line 947 outage for maintenance work on tee section of line to Burrendong | Request from Essential Energy | 11/07/2014 | 14:22:00 | 11/07/2014 | 14:44:00 | 0.367 | 947 Wellington - Orange North tee Burrendong 132kV Line | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 164426 - 132kV TL 947 - 11_07_2014.msg |
| S1 | | 168815 | 132kV Transmission Line 96M outage for customer system operating arrangements | Request from Essential Energy | 31/07/2014 | 8:54:00 | 31/07/2014 | 9:14:00 | 0.333 | 96M Narrabri - Moree 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168815 - 132kV TL 96M - 31_07_2014.msg |
| S1 | | 168125 | 132kV Transmission Line 97L outage for transformer protection maintenance requested by Snowy Hydro. | Request from Snowy Hydro | 17/07/2014 | 15:49:00 | 17/07/2014 | 16:06:00 | 0.283 | 97L Guthega - Jindabyne Pumps 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 168125 - 132kV TL 97L - 17_07_2014.msg |
| S1 | | 174409 | 132kV Transmission Line 996 outage for switching on customer network | Request from Essential Energy | 28/10/2014 | 14:26:00 | 28/10/2014 | 14:37:00 | 0.183 | 996 Wagga 330 - ANM tee Morven 132kV TL | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 174409 - 132kV TL 996 - 28_10_2014.msg |
| S1 | | | | | | | | | 0.000 | | 0.000 | | |
| S1 | | | | | | | | | 0.000 | | 0.000 | | |
| S2 | | 159885 | 132/6.6/3.3kV Transformer No.2 at Vales Point Power Station outage for repair work on tap changer diverter switch and drive box | Request from Delta Electricity | 10/03/2014 | 11:29:00 | 12/03/2014 | 19:29:00 | 56.000 | Vales Point No.2 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 159885 - VP1 Tx No.2 - 10_03_2014.msg |
| S2 | | 170726 | 132/6.6/3.3kV Transformer No.2 at Vales Point Power Station outage for work on local backup trip links | Request from Delta Electricity | 27/08/2014 | 9:53:00 | 28/08/2014 | 22:51:00 | 36.967 | Vales Point No.2 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 170726 - VP1 132kV Tx No.2 - 27_08_2014 Part1.msg & Excluded Outage 170726 - VP1 132kV Tx No.2 - 28_08_2014 Part2.msg |
| S2 | | 174270 | 330/132kV Transformer No.1 at Holroyd outage for work on direct connected Endeavour Energy line 93L. | Request from Endeavour Energy | 9/10/2014 | 15:52:00 | 10/10/2014 | 15:54:00 | 24.033 | Holroyd No.1 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 174270 - HLD Tx No.1 - 09_10_2014.msg |
| S2 | | 158420 | 330/132kV Transformer No.1 at Liverpool outage for work on direct connected Endeavour Energy line 93N. | Request from Endeavour Energy | 20/03/2014 | 19:25:00 | 21/03/2014 | 15:20:00 | 19.917 | Liverpool No.2 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 158420 - LP1 Tx No.2 - 20_03_2014.msg |
| S2 | | 168957 | 132/33/11kV Transformer No.2 at Muryang Station unplanned outage due to fault in Essential energy network | Fault on Essential Energy network | 29/07/2014 | 18:04:00 | 30/07/2014 | 12:02:00 | 17.967 | Muryang No.2 Transformer 132/33/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 168957 - MNY No.2 Tx - 29_07_2014.png |
| S2 | | 160024 | 330/132kV Transformer No.1 at Liverpool outage for work on direct connected Endeavour Energy line 93B. | Request from Endeavour Energy | 18/03/2014 | 5:30:00 | 18/03/2014 | 17:27:00 | 11.950 | Liverpool No.1 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 160024 - LP1 Tx No.1 - 18_03_2014.msg |
| S2 | Transformer availability | 177490 | 330/132kV Transformer No.1 at Vales Point Power Station outage for repair work on tap changer diverter switch and drive box | Request from Delta Electricity | 26/11/2014 | 8:50:00 | 26/11/2014 | 20:16:00 | 11.433 | Vales Point No.1 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 177490 - VP1 No.1 Tx - 26_11_2014.pdf |
| S2 | | 163246 | 330/132kV Transformer No.2 at Vales Point Power Station outage for repair work on tap changer diverter switch and drive box | Request from Delta Electricity | 6/05/2014 | 10:22:00 | 6/05/2014 | 17:00:00 | 6.633 | Vales Point No.2 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 159330 163246 163250 163251 - Delta Black Start Testing - 06_05_2014.msg |
| S2 | | 168835 | 132/33/11kV Transformer No.2 at Muryang Station outage due to fault in Essential energy network | Fault on Essential Energy network | 28/07/2014 | 15:34:00 | 28/07/2014 | 19:02:00 | 3.467 | Muryang No.2 Transformer 132/33/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 168835 - MNY No.2 Tx - 28_07_2014.png |
| S2 | | 159921 | 132/33/11kV Transformer No.2 at Muryang Station outage due to fault in Essential energy network | Fault on Essential Energy network | 16/03/2014 | 10:51:00 | 16/03/2014 | 13:42:00 | 2.850 | Muryang No.2 Transformer 132/33/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 159921 - MNY No.2 Tx - 16_03_2014.png |
| S2 | | 165221 | 132/33/11kV Transformer No.2 at Muryang Station outage for equipment replacement in Essential energy network | Request from Essential Energy | 30/05/2014 | 11:32:00 | 30/05/2014 | 13:36:00 | 2.067 | Muryang No.2 Transformer 132/33/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outage 165221 - MNY 132kV Tx No.2 - 30_05_2014.msg |
| S2 | | 171214 | 330/132kV Transformer No.2 at Vales Point Power Station outage due to intertrip protection alarm initiated from 6.6kV Station Services Board | Fault on Delta Electricity equipment | 1/09/2014 | 14:12:00 | 1/09/2014 | 16:14:00 | 2.033 | Vales Point No.2 Transformer 330/132/11kV | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 171214 - VP1 No.2 Tx - 01_09_2014.pdf & Excluded Outages 171214 - VP1 No.2 Tx - 01_09_2014.png |
| S2 | | | | | | | | | 0.000 | | 0.000 | | |
| S2 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | Reactive plant availability | 163250 | No.2 200 Mvar Capacitor at Vales Point Power Station outage for Black start test | Request from Delta Electricity | 6/05/2014 | 10:22:00 | 6/05/2014 | 17:00:00 | 6.633 | Vales Point No.2 Capacitor | 0.000 | Exclusion 1.2 Third party event | Excluded Outages 159330 163246 163250 163251 - Delta Black Start Testing - 06_05_2014.msg |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |
| S3 | | | | | | | | | 0.000 | | 0.000 | | |

NOTE:

This worksheet should include a list of 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.

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TransGrid - 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 | | 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 >0.25 system minutes | | | | | | | | | | | | |
| S5 | | | | | | | | | | | | | |
| S5 | | | | | | | | | | | | | |
| S5 | | | | | | | | | | | | | |
| S5 | | | | | | | | | | | | | |

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TransGrid - 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. Exclusion 1.2 Third party event | A TNSP may provide further details of an exclusion event. TNSP to provide reference. |
| S6 | 157148 | 132kV Transmission Line 963 unplanned outage due to line trip caused by storms in the area. | Fault on Essential Energy network | 2014-02-01 | 18:51:00 | 2/02/2014 | 15:12:00 | 963 Tomago330 - Taree T Hawksnest 132kV TL | 1221.000 | | Exclusion 1.2 Third party event | Excluded Outages 157148 - 132kV TL 963 - 01_02_2014.png |
| S6 | 170598 | 330kV Transmission Line M13 unplanned outage due to line trip caused by protection operation at direct connected unit 13/14 transformer | Snowy Hydro equipment fault | 2014-08-25 | 23:20:00 | 26/08/2014 | 16:19:00 | M13 Murray - Murray 2 330kV TL | 1019.000 | | Exclusion 1.2 Third party event | Excluded Outages 170598 - 330kV TL M13 - 25_08_2014.png |
| S6 | 162216 | 132kV Transmission Line 97L unplanned outage due to line trip caused by Snowy Hydro staff working at Jindabyne Pumping Station substation. | Snowy Hydro staff error | 2014-04-15 | 9:09:00 | 15/04/2014 | 13:55:00 | 97L Guthega - Jindabyne Pumps 132kV TL | 286.000 | | Exclusion 1.2 Third party event | Excluded Outage 162216 - 132kV TL 97L - 15_04_2014.pdf |
| S6 | 176118 | 132kV Transmission Line 96C unplanned outage due to arcing along the line in the tee section towards Dorrigo | Fault on Essential Energy network | 2014-11-05 | 20:16:00 | 5/11/2014 | 23:31:00 | 96C Armidale - Coffs Harbour Tee Dorrigo 132kV TL | 195.000 | | Exclusion 1.2 Third party event | Excluded Outage 176118 - 132kV TL 96C - 05_11_2014.png |
| S6 | 168957 | 132/33/11kV Transformer No.2 at Munyang Station unplanned outage due to fault in Essential energy network | Fault on Essential Energy network | 2014-07-29 | 18:04:00 | 30/07/2014 | 12:02:00 | Munyang No.2 Transformer 132/33/11kV | 1078.000 | | Exclusion 1.2 Third party event | Excluded Outages 168957- MNY No.2 Tx - 29_07_2014.png |
| S6 | 168835 | 132/33/11kV Transformer No.2 at Munyang Station outage due to fault in Essential energy network | Fault on Essential Energy network | 2014-07-28 | 15:34:00 | 28/07/2014 | 19:02:00 | Munyang No.2 Transformer 132/33/11kV | 208.000 | | Exclusion 1.2 Third party event | Excluded Outages 168835 - MNY No.2 Tx - 28_07_2014.png |
| S6 | 159921 | 132/33/11kV Transformer No.2 at Munyang Station outage due to fault in Essential energy network | Fault on Essential Energy network | 2014-03-16 | 10:51:00 | 16/03/2014 | 13:42:00 | Munyang No.2 Transformer 132/33/11kV | 171.000 | | Exclusion 1.2 Third party event | Excluded Outages 159921 - MNY No.2 Tx - 16_03_2014.png |
| S6 | 171214 | 330/132kV Transformer No.2 at Vales Point Power Station outage due to intertrip protection alarm initiated from 6.6kV Station Services Board | Fault on Delta Electricity equipment | 2014-09-01 | 14:12:00 | 1/09/2014 | 16:14:00 | Vales Point No.2 Transformer 330/132/11kV | 122.000 | | Exclusion 1.2 Third party event | Excluded Outages 171214 - VP1 No.2 Tx - 01_09_2014.pdf & Excluded Outages 171214 - VP1 No.2 Tx - 01_09_2014.png |
| S6 | | | | | | | | | | | | |
| S6 | | | | | | | | | | | | |

NOTE:

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TransGrid - S1 - Transmission line availability

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|--------------------------------|-------------|--------|--------|--------|-----------|
| Transmission line availability | 98.90% | 99.05% | 99.26% | 99.36% | 99.60% |
| Weighting | -0.20% | -0.20% | 0.00% | 0.20% | 0.20% |

| Performance Formulae | Formulae | | | | Conditions | | | | S- Calc 1 | S- Calc 2 | | | |
|----------------------|----------|-----------|---|--------------|--------------|-----------|--------|---|--------------|-----------|-----------|-----------|-----------|
| Performance | = | -0.002000 | | | Availability | < | 99.05% | | | -0.002000 | -0.002000 | | |
| | = | 0.952381 | x | Availability | + | -0.945333 | 99.05% | ≤ | Availability | ≤ | 99.26% | -0.005692 | -0.002112 |
| | = | 2.000000 | x | Availability | + | -1.985200 | 99.26% | ≤ | Availability | ≤ | 99.36% | -0.011954 | -0.004436 |
| | = | 0.002000 | | | | | 99.36% | < | Availability | | | 0.002000 | 0.002000 |

| Performance Outcomes | | Performance (Without Exclusions) | Performance (Exclusions) |
|--------------------------------|---|----------------------------------|--------------------------|
| Transmission line availability | = | 98.662309% | 99.038204% |
| S-Factor | = | -0.200000% | -0.200000% |

NOTE:

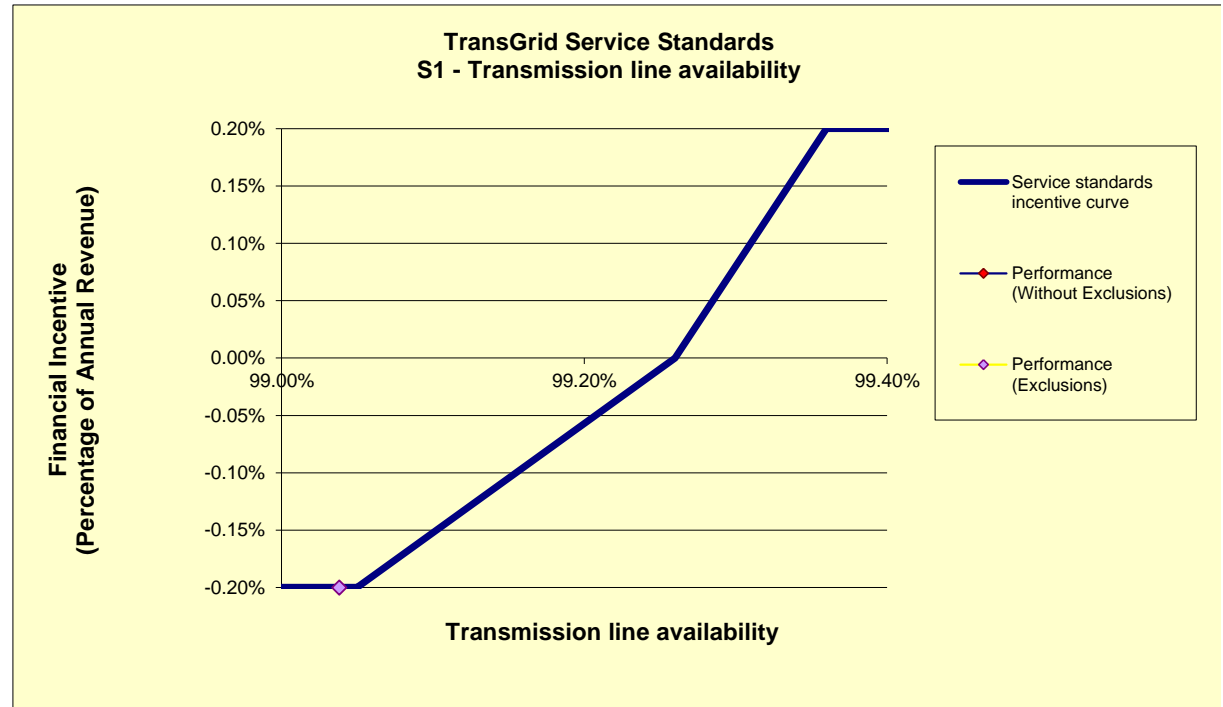
This sheet will automatically update based on data in input sheets

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



TransGrid - S2 - Transformer availability

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|--------------------------|-------------|--------|--------|--------|-----------|
| Transformer availability | 97.10% | 97.33% | 98.61% | 98.89% | 99.10% |
| 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 | < | 97.33% | -0.001500 | -0.001500 | | |
| | = | 0.117188 | x | Availability | + | -0.115559 | 97.33% | ≤ | Availability | ≤ | 98.61% | -0.002532 | -0.002518 |
| | = | 0.535714 | x | Availability | + | -0.528268 | 98.61% | ≤ | Availability | ≤ | 98.89% | -0.011576 | -0.011511 |
| | = | 0.001500 | | | | | 98.89% | < | Availability | | | 0.001500 | 0.001500 |

| Performance Outcomes | | Performance (Without Exclusions) | Performance (Exclusions) |
|--------------------------|---|----------------------------------|--------------------------|
| Transformer availability | = | 96.449227% | 96.461312% |
| S-Factor | = | -0.150000% | -0.150000% |

NOTE:

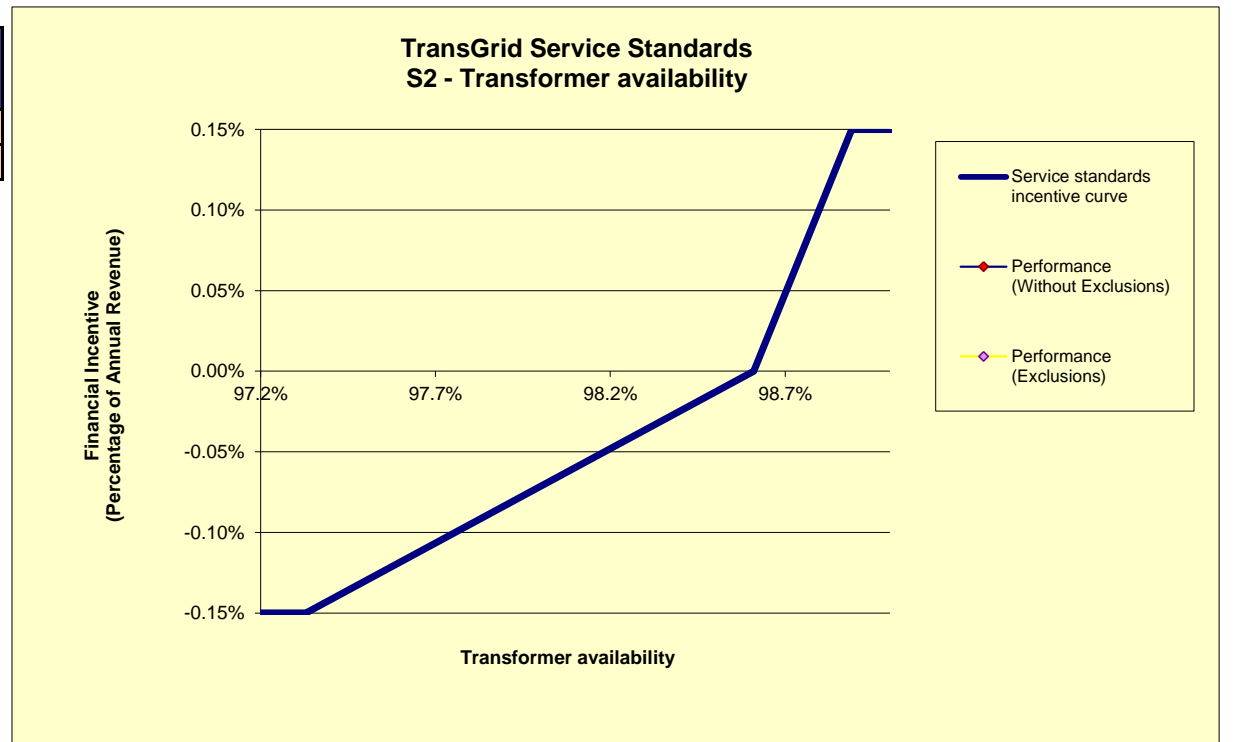
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Orange cells show the TNSP's performance outcomes with events excluded from performance data



TransGrid - S3 - Reactive plant availability

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|-----------------------------|-------------|--------|--------|--------|-----------|
| Reactive plant availability | 98.50% | 98.65% | 99.12% | 99.33% | 99.50% |
| 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 | < | 98.65% | -0.001000 | -0.001000 | | | |
| | = | 0.212766 | x | Availability | + | -0.210894 | 98.65% | ≤ | Availability | ≤ | 99.12% | -0.007144 | -0.007143 |
| | = | 0.476190 | x | Availability | + | -0.472000 | 99.12% | ≤ | Availability | ≤ | 99.33% | -0.015989 | -0.015986 |
| | = | 0.001000 | | | | | 99.33% | < | Availability | | | 0.001000 | 0.001000 |

| Performance Outcomes | | Performance (Without Exclusions) | Performance (Exclusions) |
|-----------------------------|---|----------------------------------|--------------------------|
| Reactive plant availability | = | 95.762320% | 95.762885% |
| S-Factor | = | -0.100000% | -0.100000% |

NOTE:

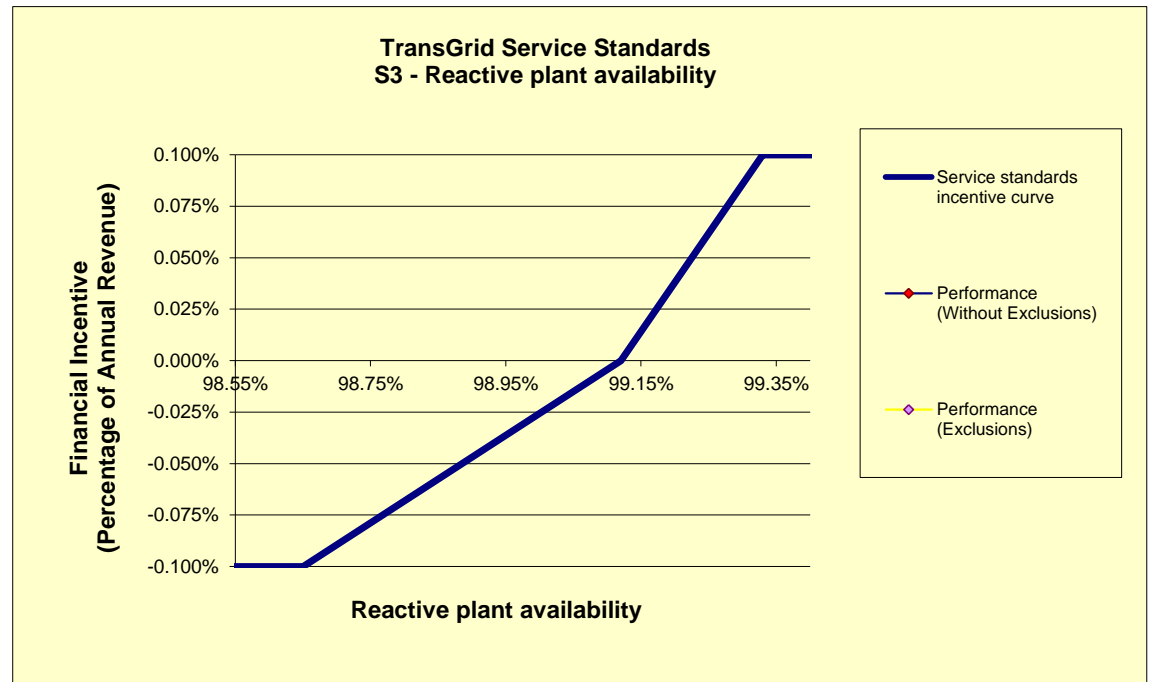
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Blue cells show the TNSPT's performance targets and weightings

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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



TransGrid - 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 | 9 | 7 | 4 | 2 | - |
| Weighting | -0.25% | -0.250% | 0.00% | 0.250% | 0.25% |

| Performance Formulae | Formulae | | | | Conditions | S- Calc 1 | S- Calc 2 | |
|----------------------|----------|-----------|---|---------------|-------------------|-----------------------|-----------|----------|
| Performance | = | -0.002500 | | | 7 < No. of events | -0.002500 | -0.002500 | |
| | = | -0.000833 | x | No. of events | + 0.003333 | 4 ≤ No. of events ≤ 7 | 0.000833 | 0.000833 |
| | = | -0.001250 | x | No. of events | + 0.005000 | 2 ≤ No. of events ≤ 4 | 0.001250 | 0.001250 |
| | = | 0.002500 | | | | No. of events < 2 | 0.002500 | 0.002500 |

| Loss of supply event frequency >0.05 system minutes | = | Performance (Without Exclusions) | Performance (Exclusions) |
|-----------------------------------------------------|---|----------------------------------|--------------------------|
| Loss of supply event frequency >0.05 system minutes | = | 3 | 3 |
| S-Factor | | 0.125000% | 0.125000% |

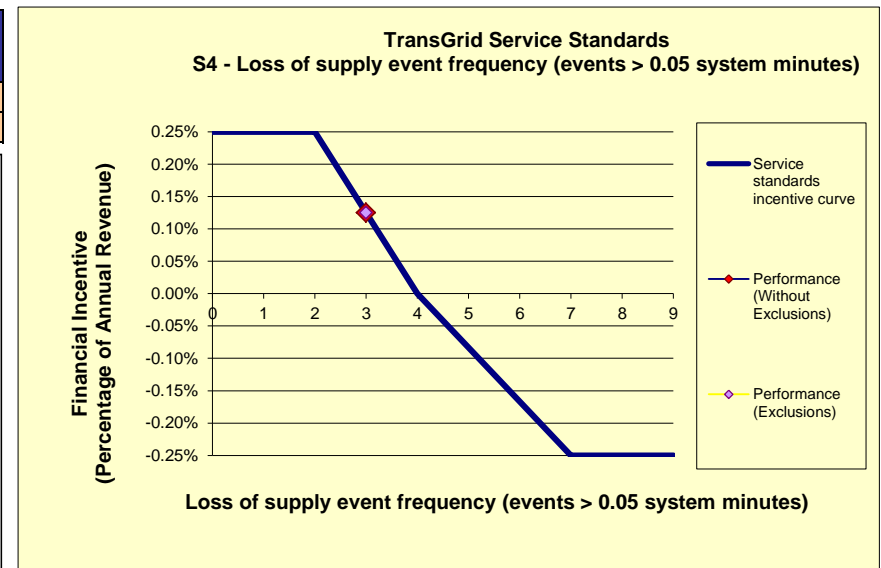
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Pink cells show the TNSP's performance outcomes without any events excluded from performance data

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



TransGrid - S5 - Loss of supply event frequency >0.25 system minutes

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|-----------------------------------------------------|-------------|---------|--------|--------|-----------|
| Loss of supply event frequency >0.25 system minutes | 4 | 2 | 1 | 0 | 0 |
| Weighting | -0.10% | -0.100% | 0.00% | 0.100% | 0.10% |

| Performance Formulae | Formulae | | | | | Conditions | S- Calc 1 | S- Calc 2 | |
|----------------------|----------|-----------|---|---------------|---|-------------------|-----------------------|-----------|----------|
| Performance | = | -0.001000 | | | | 2 < No. of events | -0.001000 | -0.001000 | |
| | = | -0.001000 | x | No. of events | + | 0.001000 | 1 ≤ No. of events ≤ 2 | 0.001000 | 0.001000 |
| | = | -0.001000 | x | No. of events | + | 0.001000 | 0 ≤ No. of events ≤ 1 | 0.001000 | 0.001000 |
| | = | 0.001000 | | | | No. of events = 0 | 0.001000 | 0.001000 | |

| Loss of supply event frequency >0.25 system minutes | = | Performance (Without Exclusions) | Performance (Exclusions) |
|-----------------------------------------------------|---|----------------------------------|--------------------------|
| Loss of supply event frequency >0.25 system minutes | = | 0 | 0 |
| S-Factor | | 0.100000% | 0.100000% |

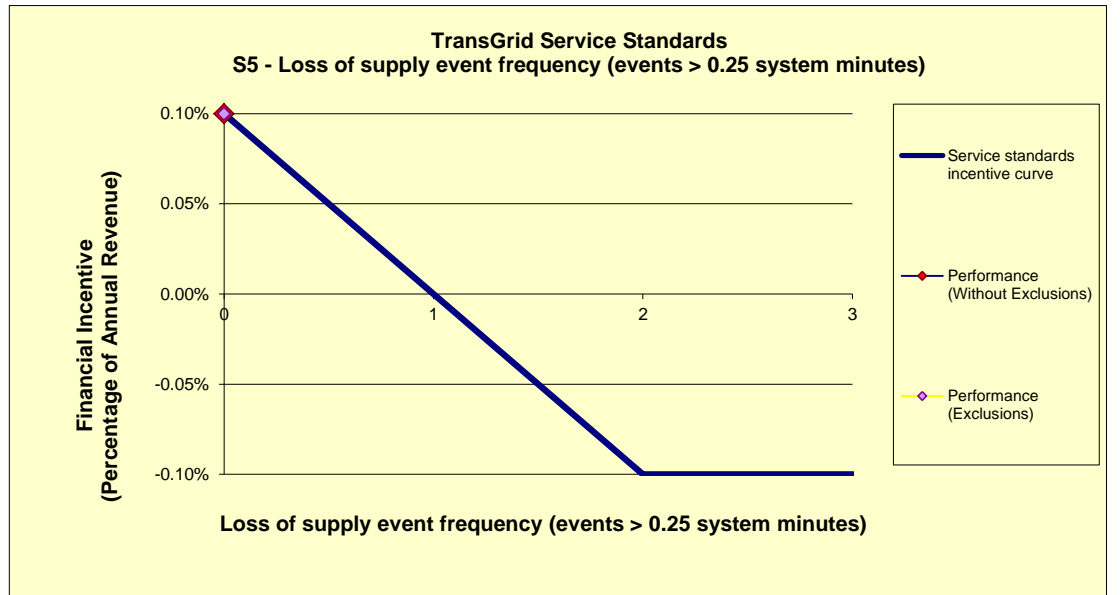
NOTE: This sheet will automatically update based on data in input sheets

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



TransGrid - S6 - Average outage duration

| Performance Targets | Graph start | Collar | Target | Cap | Graph end |
|-------------------------|-------------|---------|--------|--------|-----------|
| Average outage duration | 1,199 | 999 | 824 | 649 | - |
| Weighting | -0.20% | -0.200% | 0.00% | 0.200% | 0.20% |

| Performance Formulae | Formulae | | | | | | Conditions | | | S- Calc 1 | S- Calc 2 | | |
|----------------------|----------|-----------|---|----------|---|----------|------------|---|----------|-----------|-----------|-----------|-----------|
| Performance | = | -0.002000 | | | | | 999 | < | Duration | | -0.002000 | -0.002000 | |
| | = | -0.000011 | x | Duration | + | 0.009417 | 824 | ≤ | Duration | ≤ | 999 | -0.014765 | -0.015182 |
| | = | -0.000011 | x | Duration | + | 0.009417 | 649 | ≤ | Duration | ≤ | 824 | -0.014765 | -0.015182 |
| | = | 0.002000 | | | | | | | Duration | < | 649 | 0.002000 | 0.002000 |

| Average outage duration | = | Performance (Without Exclusions) | Performance (Exclusions) |
|-------------------------|---|----------------------------------|--------------------------|
| Average outage duration | = | 2115.952055 | 2152.442029 |
| S-Factor | = | -0.200000% | -0.200000% |

NOTE:

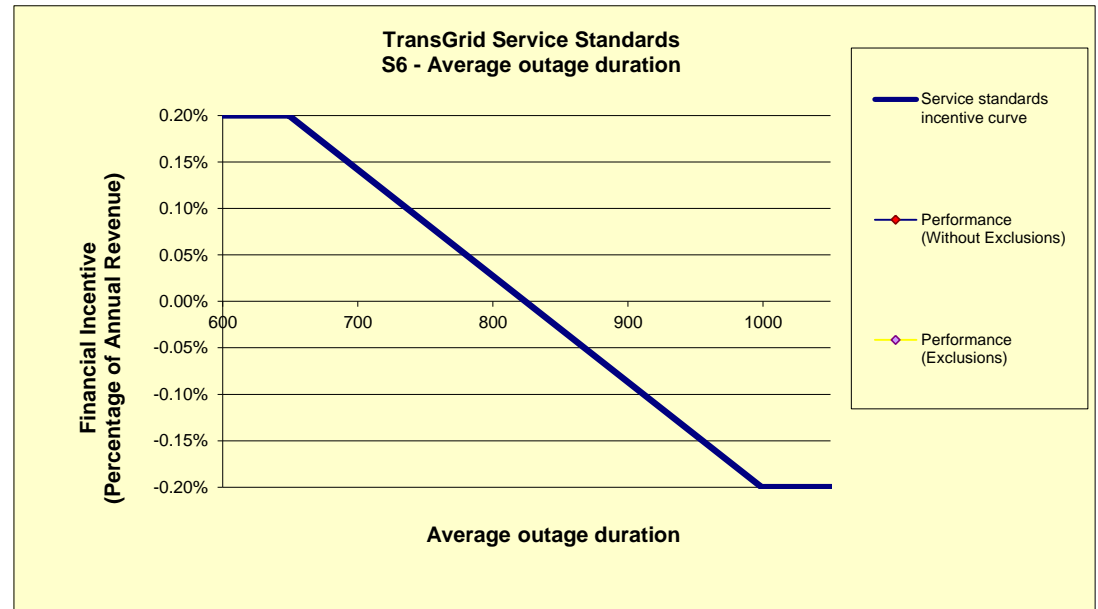
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Orange cells show the TNSP's performance outcomes with events excluded from performance data



TransGrid - Revenue Calculation

| <i>Revenue cap information</i> | |
|-----------------------------------|---------------|
| Base year allowed revenue | \$678,400,000 |
| Base year | 2009-10 |
| X-factor | -5.61% |
| Commencement of regulatory period | 1-Jul-09 |

| <i>Annual revenue adjusted for CPI</i> | Mar-09 | Mar-10 | Mar-11 | Mar-12 | Mar-13 | Mar-14 |
|----------------------------------------|--------|--------|--------|--------|--------|--------|
| CPI | 166.2 | 171.0 | 176.7 | 179.5 | - | - |
| CPI | 92.5 | 95.2 | 98.3 | 99.9 | 102.4 | 105.4 |

Transitional year

| Nominal annual revenue | 2009-10 | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Allowed Revenue | \$678,400,000 | \$737,150,175 | \$804,454,443 | \$863,046,907 | \$934,273,244 | \$845,390,768 |

| <i>Calendar year revenue</i> | 1 July 1905 | 2 July 1905 | 3 July 1905 | 4 July 1905 | 5 July 1905 | 6 July 1905 |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Revenue | \$339,200,000 | \$707,775,087 | \$770,802,309 | \$833,750,675 | \$898,660,076 | \$889,832,006 |

NOTE:

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

Grey cells show calendar year revenue

Green cells are for formula

TransGrid - Performance outcomes

Revenue calendar year

\$889,832,006

| S | Performance parameter | Target | Performance without exclusions | | | Performance with exclusions | | | Impact of exclusions |
|---------------|-----------------------------------------------------|--------------|--------------------------------|------------|-----------------|-----------------------------|------------|-----------------|----------------------|
| | | | Performance | S-Factor | Final Incentive | Performance | S-Factor | Final Incentive | |
| S1 | Transmission line availability | 99.26% | 98.662309% | -0.200000% | -\$1,779,664 | 99.038204% | -0.200000% | -\$1,779,664 | 0.000000% |
| S2 | Transformer availability | 98.61% | 96.449227% | -0.150000% | -\$1,334,748 | 96.461312% | -0.150000% | -\$1,334,748 | 0.000000% |
| S3 | Reactive plant availability | 99.12% | 95.762320% | -0.100000% | -\$889,832 | 95.762885% | -0.100000% | -\$889,832 | 0.000000% |
| S4 | Loss of supply event frequency >0.05 system minutes | 4 | 3 | 0.125000% | \$1,112,290 | 3 | 0.125000% | \$1,112,290 | 0.000000% |
| S5 | Loss of supply event frequency >0.25 system minutes | 1 | 0 | 0.100000% | \$889,832 | 0 | 0.100000% | \$889,832 | 0.000000% |
| S6 | Average outage duration | 3 April 1902 | 2116 | -0.200000% | -\$1,779,664 | 2152 | -0.200000% | -\$1,779,664 | 0.000000% |
| TOTALS | | | | -0.425000% | -\$3,781,786 | | -0.425000% | -\$3,781,786 | 0.000000% |

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

| Aggregate outcome | |
|------------------------------------------------|--------------|
| S-factor | -0.425000% |
| Financial Incentive | -\$3,781,786 |
| Financial year affected by financial incentive | 2015/16 |