

SPECIAL SITES AND TECHNOLOGY RELATED CONDITIONS WITHIN THE NATIONAL ELECTRICITY MARKET

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AEMO Markets

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1.1	1 December 2017	Updated to incorporate AEMO's new drafting principles.
1.2	1 December 2017	Final Version
2.0	6 February 2022	Updated to incorporate amendments for National Electricity Amendment (Global Settlement and Market Reconcilliation) Rule 2018 No 14
2.1	12 September 2022	 Appendix A updated to: apply classification to new sites, and remove classification from existing sites

SPECIAL SITES AND TECHNOLOGY RELATED CONDITIONS WITHIN THE NATIONAL ELECTRICITY MARKET



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1. INTRODUCTION

1.1. Purpose and Scope

This Special Site or Technology Related Conditions document is made under the clause 7.8.12 of the NER. This document:

- describes situations where special site or technology related conditions exist in the NEM;
- defines the different categories of these situations; and
- provides a list of these.

This document has effect only for the purposes set out in the NER. The NER and the National Electricity Law prevail over this document to the extent of any inconsistency.

1.2. Definitions and Interpretation

The Retail Electricity Market Procedures – Glossary and Framework:

is incorporated into and forms part of this document; and should be read with this document.

1.3. Related AEMO Documents

Title	Location
Retail Electricity Market Procedures – Glossary and Framework	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and-metering
Metrology Procedure: Part A	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and- metering/Metrology-Procedures-and-Unmetered- Loads
Metrology Procedure: Part B	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and- metering/Metrology-Procedures-and-Unmetered- Loads
Service Level Procedure (MP)	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and- metering/Metering-procedures-guidelines-and- processes
Service Level Procedure (MDP)	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and- metering/Metering-procedures-guidelines-and- processes
CATS Procedures: NMI Procedure	https://www.aemo.com.au/Electricity/National- Electricity-Market-NEM/Retail-and- metering/Metering-procedures-guidelines-and- processes



2. WHAT IS A SPECIAL SITE

As stated in clause 7.8.12(a) of the NER, AEMO may determine that special arrangements are required to support the integrity of the collection and processing of *metering data* from nominated *metering installations*, referred to as special sites or technology related conditions. These are determined by AEMO and *published* in this document (Special Sites).

AEMO will only consider special *metering* arrangements where Participants, having investigated all other NEM compliant *metering* arrangements, determine them not suitable.

3. PROCESS

An MC, LNSP or FRMP for a *connection point* may request AEMO to remove a Special Site following alteration to the *connection point*(s) or *metering installation*(s) or its *metering data* collection arrangements. AEMO will assess the request, consult with affected Participants and if AEMO considers it appropriate, remove the Special Site from the relevant list in section 6.

An MC, LNSP or FRMP may send to AEMO a request to remove a Special Site via email to supporthub@aemo.com.au.

AEMO will inform all *Registered Participants*, MDPs, MPs and ENMs of any changes to the list of Special Sites via an AEMO Communication.

4. CHARACTERISTICS OF SPECIAL SITES

AEMO determines that a Special Site exists where:

metering installations at transmission network connection points require complex configurations and these metering installations are related to all of the connection point metering installations at the transmission node. These metering installations are identified by the specific TNI Code for these transmission network connection points;

interconnector connection points are associated with physical and virtual (logical) metering installations (i.e. all interconnectors). These metering installations will be identified by the specific unique TNI Code for these interconnector connection points;

metering installations relate to Market Generator connection points with complex configurations. These metering installations will be identified by the respective published Market Generator Connection Point ID¹;

metering installations that relate to cross boundary connection points between adjacent distribution networks with physical and virtual (logical) metering installations (i.e. all cross boundary connection points). Cross boundary connection points are referenced to respective transmission network connection points, and in all cases are found to be included in the complex configuration of connection points already classified as Special Sites. These metering installations will be identified by the specific TNI Code for the transmission network connection points to which they are related.

5. SPECIAL SITE CATEGORIES

AEMO considers that there are five categories of a Special Site. Table 1 specifies each type by reference to clause 7.8.12(a) of the NER:

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¹ Connection Point ID related to *Market Generators* is as *published* in AEMO's List of Regional Boundaries and Marginal Loss Factors, available at: https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-regional-boundaries/#dlfcodes.



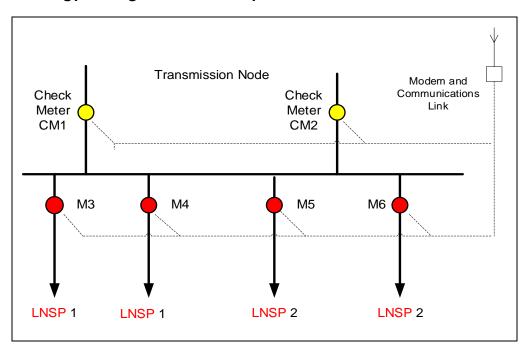
Special Site Categories

Туре	Description	NER Reference
Type A	Connection point(s) with a complex metrology configuration. (Ref 3(a), (c) and (d))	7.8.12(a)(1)
Туре В	Connection point(s) where the physical location or relativities of the involved metering installations to the connection points(s) requires a complex algorithm for the compensation or correction of metering data. (Ref 3(a), (b) and (c))	7.8.12(a)(1)
Type C	Multiple metering installations and meters pertaining to multiple connection points, using one communications interface where congestion could occur and there is a risk to obtaining metering data efficiently. (Ref 3(a) and (b))	7.8.12(a)(2)
Type D	Cross boundary/border <i>supply</i> points between <i>distribution networks</i> where logical or virtual <i>connection points</i> are required to settle <i>energy</i> flows. (Ref 3(d))	7.8.12(a)(4)
Type E	Connection points in relation to interconnectors. (Ref 3(b))	7.8.12(a)(3)

Examples of existing Special Sites are provided in Appendix A. The configurations in these examples are to support legacy arrangements that existed prior to the establishment of the NEM. They are not to be taken as arrangements that can be applied to new sites.

6. EXAMPLES OF SPECIAL SITE CATEGORIES

Type A - Metrology Configuration – Example 1



Explanation:

Transmission network connection point(s) feeding different LNSP areas using nodal *check metering installations*. The above configuration illustrates:

Local area connection points are metered with meters M3, M4, M5 and M6.

The connection points have type 2 metering installations, the check meters being CM1 and CM2.

Feeders via meters M3 and M4 are local area connection points to LNSP 1.

Feeders via meters M5 and M6 are local area connection points to LNSP 2.



Under the above configuration, to meet the requirements under the NER and procedures authorised under the NER:

All *metering data* must be Validated against the *check metering data* in accordance with the Metrology Procedure: Part B.

Any *metering data* Substitutions for missing or erroneous *metering data* must be undertaken in accordance with Metrology Procedure: Part B.

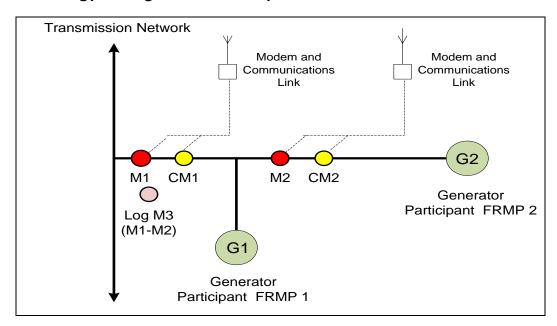
Validation test to be performed is (CM1 + CM2) = (M3 + M4 + M5 + M6).

Substitution scenario (e.g. loss of *metering data* for M5). Substitution value can be calculated from M5 = (CM1 + CM2 - (M3 + M4 + M6)).

Note:

Configuration requires that only one MDP to be appointed for all of these *connection points* otherwise the Validation, Substitution and *metering data* calculations are not able to be effectively undertaken for LNSP 1 and LNSP 2 *local areas*.

Type A - Metrology Configuration - Example 2



Explanation:

The above configuration illustrates:

Generator 1 is a *market connection point* with AEMO. The *metering installation* is a type 1 or type 2 for Generator 1 *connection point*. *Meters* installed are M1 and *check meter* CM1.

Subsequent to Generator 1's registration, Generator 2 is registered and also has a type 1 or type 2 *metering installation* but *metering* for Generator 2 is located downstream of Generator 1's *metering*.

Both Generators 1 & 2 have connection points at the same physical point but the metrology is complex.

The installed metrologies for the Generators are physically separated from each another.

The Market Participants for the Generators may be different.

All *metering data* must be validated and substituted against the *check metering data* and in accordance with Metrology Procedure: Part B:



Validations test to be performed are CM1 = M1 and CM2 = M2.

Substitutions - To enable any accurate Substitutions for Generator 1, both sets of *metering data* are required.

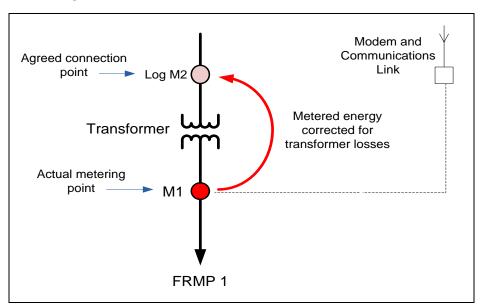
Settlements energy for (FRMP 2) Generator 2 = M2 energy.

Settlements energy for (FRMP 1) Generator 1 = Log M3 = (M1 - M2).

Note:

- Configuration requires that only one MDP be appointed for these connection points, otherwise
 the metering data collection, Validation and Substitution is not able to be effectively
 undertaken.
- Correct calculation of FRMP1 *energy* is not able to be achieved effectively unless there is a single MDP for both *connection points*.

Type B - Complex Algorithm - Example 1



Explanation:

Market connection point where constraints exist for the *metering* to be located at the *connection point*. The above configuration illustrates:

Metering point is not at the market connection point and is located on the other side of transformer.

Metering point has meter M1.

Connection point has logical meter 'Log M2'.

Logical meter 'Log M2' is the *energy* measured by M1 corrected for *transformer* losses.

An example calculation would be:

$$Log\ M2 = M1 \pm \left[\left(t \times (MVA\ Load)^2 \times \frac{\left(\frac{Vr}{Va}\right)^2}{(Rated\ MVA)^2} \right) \times Cu\ Loss \right) + \left(\frac{Fe\ Loss}{t}\right) \right]$$

Where:



MVA load = calculated from the kWh and kVarh interval metering data

e.g. MVA load² = $((E1/1000)^2 + (Q1/1000)^2)$

Vr – rated *voltage* of *transformer*

Va – actual operating voltage in relation to tap setting of transformer

Rated MVA – rated MVA specification of *transformer*

Cu Loss - Rated MVA copper loss of transformer

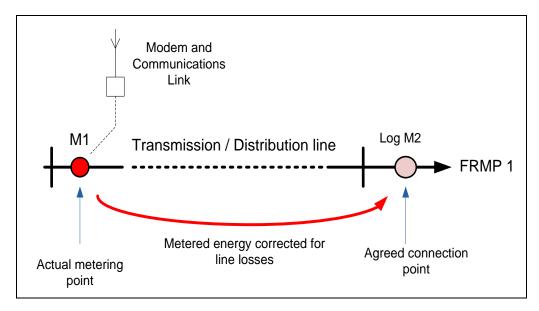
Fe Loss – iron loss of *transformer*

t – Number of measurement intervals per hour (e.g. t = 2 for 30-minute interval, 4 for 15-minute interval and 12 for 5-minute interval)

Note:

- A logical calculation to be performed for each interval of *metering data*.
- Logical equations will need 'If Then Else' statements in algorithm structure to manage effect of interval energy variances, constants and directional changes with import and export energy flows
- This example does not apply to *embedded networks connected* to a *distribution network*.

Type B - Complex Algorithm - Example 2



Explanation:

A *market connection point* where constraints exist for the *metering* to be located at the *connection point*. The above configuration illustrates:

Metering point is not at the market connection point and is located at the end of the transmission/distribution line.

Metering point has meter M1.

Connection point has logical meter 'Log M2'.

2. Logical meter 'Log M2' is the *energy* measured by M1 corrected for line losses.

An example calculation would be:



$$Log\ M2 = M1 \pm (line\ loss)$$

$$Log M2 = M1 \pm (I^2 \times R \times h) = \left(\frac{(E1^2 + Q1^2)}{V^2}\right) \times R \times t$$

Where:

I² – calculated from the nominal line *voltage* and requisite interval kWh and kVarh *interval metering* data measurements.

V – being the nominal rated line *voltage* (kV).

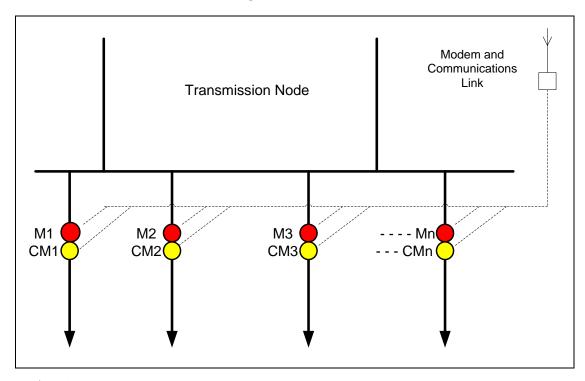
R – being the line resistance in 'ohms'.

t – Number of measurement intervals per hour (e.g. t = 2 for 30-minute interval, 4 for 15-minute interval and 12 for 5-minute interval).

Note:

- A logical calculation to be performed for each interval of metering data.
 Logical equations will need 'If Then Else' statements in algorithm structure to manage effect of interval energy variances, constants and directional changes with import and export energy flows
- This example does not apply to *embedded networks connected* to a *distribution network*.

Type C - Communication Configuration – Example 1



Explanation:

Multiple transmission network connection point(s) and metering installations located at a single transmission node on the one communications interface. The above configuration illustrates:

Each market connection point and associated metering installations have master and check meters installed.



All *meters* are configured to a single *communications interface*, therefore only one point of interface for *metering data* collection for all *connection point(s)*. Configuration issues are:

One communications interface.

Configuration requires data access only via the 'master' meter of the group.

Meter passwords and access security become complex for MC and MPB.

Resolution of communication faults become more complex for MC and MPB.

All *metering data* must be validated against the *check metering data* and in accordance with the Metrology Procedure: Part B.

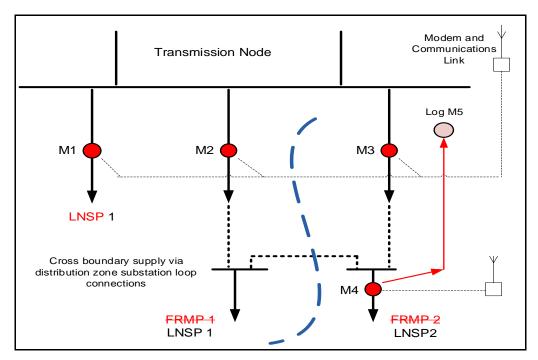
Access to metering data has to be scheduled appropriately to ensure that congestion does not occur.

Validation test to be performed is (CM1 = M1)....... (CMn = Mn) etc

Note:

• To avoid congestion, reduce risk and optimise *metering data* collection, it is appropriate that a single MDP is appointed for these *connection points*.

Type D - Cross Boundary - Example 1



Transmission network connection point(s) feeding different LNSP areas. The above configuration illustrates:

Primary market connection points are metered with meters M1, M2, and M3.

Feeders via meter M1 is a local area connection point to LNSP 1.

Feeders via *meters* M2 and M3 are *local area connection points* to both LNSP 1 and LNSP 2 with a complex 'cross boundary' *connection*.

The energy to LNSP 2 metered via M4 which has its own communications interface.

The *energy* to LNSP 2 via the zone substation loop must be corrected/referenced back to the *transmission* node by correcting for any *transformer* and line losses.



Logical Calculations to be performed are:

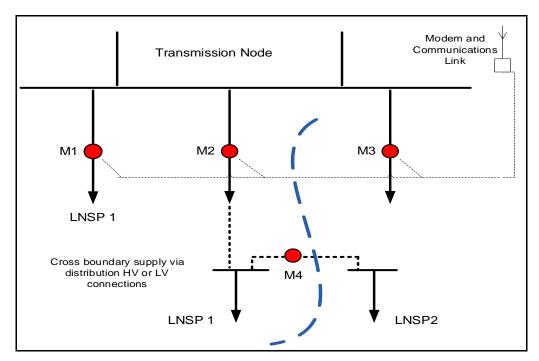
LNSP 1 energy = M1 + M2 + M3 - Log M5

LNSP 2 energy = Log M5 = M4 \pm [line and transformer losses from transmission node]

Note:

- Configuration requires that only 1 MDP be appointed for all of these connection points
 otherwise the Substitution and metering data calculations cannot be otherwise effectively
 undertaken.
- Correct calculation of LNSP 2 *local area energy* must be a precursor to any calculation of LNSP 1 *local area energy* within the MDP system.
- Logical equations will need 'If Then Else' statements in algorithm structure to manage interval *energy* variances and effect of import/export *energy* flow directions.
- MDP system must 'fail' calculation if any one parameter of logical is missing (not collected) or does not pass validation.

Type D – Cross Boundary – Example 2



Transmission network connection point(s) feeding different LNSP areas. The above configuration illustrates:

Primary market connection points are metered with meters M1, M2, and M3.

Feeders via meter M1 is a local area connection point to LNSP 1.

Feeders via *meters* M2 and M3 are *local area connection points* to both LNSP 1 and LNSP 2 with a 'cross boundary' *connection*.

The "cross boundary" energy to LNSP 2 metered via M4.

The *energy* to LNSP 2 via the "cross boundary" *connection* must be referenced back to the *transmission* node related to M2.

Logical Calculations to be performed are:



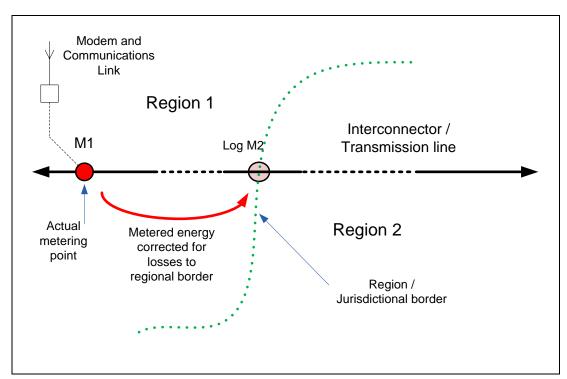
LNSP 1 energy = M1 + M2 - M4

LNSP 2 energy = M3 + M4

Note:

- Configuration requires that only 1 MDP be appointed for all of these connection points
 otherwise the Substitution and metering data calculations cannot be otherwise effectively
 undertaken.
- Logical equations will need 'If Then Else' statements in algorithm structure to manage interval *energy* variances and effect of import/export *energy* flow directions.
- MDP system must 'fail' calculation if any one parameter of logical is missing (not collected) or does not pass validation.

Type E – Interconnector – Example 1



Explanation:

Market connection point for an *Interconnector* where constraints exist for the *metering* to be located at the *regional* border. The above configuration illustrates:

Interconnector metering point is not at the *regional* border.

Metering point has *meter* M1.

Regional border point for energy interchange has logical meter 'Log M2'.

Logical meter 'Log M2' is the *energy* measured by M1 corrected for losses to the *regional* border for the Jurisdictions concerned.

Example calculation:

 $Log M2 = M1 \pm [losses]$

The assessment of losses can be:

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Dynamic line loss calculation similar to 'Complex algorithm' Type B example 2.

Application of a static loss factor.

Note:

- A logical calculation to be performed for each TI of metering data.
- Logical equations will need 'If Then Else' statements in algorithm structure to manage interval *energy* variances and effect of import/export *energy* flow directions.
- The NER make AEMO responsible for the collection of *metering data* for an *interconnector* and the engagement of an MDP.



APPENDIX A. SPECIAL SITES

A.1 Transmission Special Site Connection points

All physical and virtual *metering installations* located at *transmission network connection points* associated with the following TNI Codes are classified as a Special Sites.

TNI Name	TNI Code	Type A	Туре В	Type C	Type D	Type E
Angle Crossing	AAXG			X		
Belconnen	ABCN			Х		
Canberra	ACA1	Х	Х			
City East	ACTE			Х		
Civic	ACVC			Х		
East Lake	AELK			Х		
Gold Creek	AGCK			Х		
Gilmore	AGLM			Х		
Latham	ALTM			Х		
Mugga Lane SF at Gilmore	AMS1			Х		
Royalla Solar Farm at Theodore	ARS1			Х		
Theodore	ATDR			Х		
Telopia Park	ATLP			Х		
Woden	AWDN			Х		
Wanniassa	AWSA			Х		
Albury	NALB		X			
ANM	NANM		X			
Buronga	NBRG	Х				
Burrinjuck	NBU2		Х			
Coffs Harbour	NCH1		Х			
Coleambally	NCLY		X			
Cooma	NCMA		Х			
Deniliquin	NDN7		Х			
Dorrigo	NDOR		Х			
Dapto (Integral)	NDT1			Х		
Dapto (CE)	NDT2			Х		
Dunoon (CE)	NDUN		Х			
Griffith	NGRF		Х			
Holroyd (Ausgrid)	NHLD				Х	
Liddell	NLD3		Х			
Broadwater PS	NLS2		X			
Lismore (CE)	NLS2		X			
Meadowbank (EA)	NMBK	Х	Х			



Munyang NMY1 X Muryang NMYG X Narrabri NNB2 X Inverell NNVL X Pt Macquarie NPMQ X Pyrmont NPT1 X Tomago NTMG X X Terranora (CE) NTNR X X Taree (CE) NTR2 X X Vales Pt. (EA) NVP1 X X Vales Pt. (EA) NVP1 X X Wanga NWG2 X X BHP (Waratah) (EA) NWR1 X X Calims City QCNS X X Wandoan South (NW Surat) QWST X X Berri (POWERCOR) SBE1 X X Blyth West SBLW X X <th>TNI Name</th> <th>TNI Code</th> <th>Type A</th> <th>Type B</th> <th>Type C</th> <th>Type D</th> <th>Type E</th>	TNI Name	TNI Code	Type A	Type B	Type C	Type D	Type E
Munyang NMY1 X Muryang NMYG X Narrabri NNB2 X Inverell NNVL X Pt Macquarie NPMQ X Pyrmont NPT1 X Tomago NTMG X X Terranora (CE) NTNR X X Taree (CE) NTR2 X X Vales Pt. (EA) NVP1 X X Vales Pt. (EA) NVP1 X X Wanga NWG2 X X BHP (Waratah) (EA) NWR1 X X Calims City QCNS X X Wandoan South (NW Surat) QWST X X Berri (POWERCOR) SBE1 X X Blyth West SBLW X X <td>Muswellbrook</td> <td>NMRK</td> <td>Х</td> <td></td> <td></td> <td></td> <td></td>	Muswellbrook	NMRK	Х				
Munyang NMYG X Narrabri NNB2 X Inverell NNVL X Pt Macquarie NPMQ X Pyrmont NPT1 X Tomago NTMG X X Terranora (CE) NTRR X X Tarse (CE) NTR2 X X Terterfield NTTF X X Vales Pt. (EA) NVP1 X X Walliamsdale NWDL X X Wagga NWG2 X X BHP (Waratah) (EA) NWR1 X X Columboola - Condamine PS QCND X X Calms City QCND X X Wandoan South (NW Surat) QWST X X Berri (POWERCOR) SBE1 X X Blanche (POWERCOR) SBL1 X X Blyth West SBLW X X Cathedral Rocks Wind Farm <	Murrumburrah	NMRU		Х			
Narrabri NNB2 X Inverell NNVL X Pt Macquarie NPMQ X Pyrmont NPT1 X Tomago NTMG X X Terranora (CE) NTMR X X Taree (CE) NTR2 X X Tanteffield NTFF X X Vales Pt. (EA) NVP1 X X Williamsdale NWDL X X Wagga NWG2 X X BHP (Waratah) (EA) NWR1 X X Columboola - Condamine PS QCND X X Cairns City QCNS X X Wandoan South (NW Surat) QWST X X Berri (POWERCOR) SBE1 X X Blanche (POWERCOR) SBL1 X X Blyth West SBLW X X Cathedral Rocks Wind Farm SCRK X X Ma	Munyang	NMY1		Х			
New New	Munyang	NMYG		Х			
Pt Macquarie	Narrabri	NNB2		Х			
Pyrmont NPT1 X	Inverell	NNVL		Х			
Tomago NTMG X X Terranora (CE) NTNR X Taree (CE) NTR2 X Tenterfield NTFF X Vales Pt. (EA) NVP1 X Williamsdale NWPL X Wagga NWG2 X BHP (Waratah) (EA) NWR1 X Columboola - Condamine PS QCND X Cairns City QCNS X Wandoan South (NW Surat) QWST X Wandoan South (NW Surat) QWST X SeE1 X X Blanche (POWERCOR) SBL1 X X Blyth West SBLW X X Cathedral Rocks Wind Farm SCRK X X Kanmantoo SKAN X X Leigh Creek South SLCS X Mannum - Adelaide Pipeline 1 SMA1 X Mannum - Adelaide Pipeline 3 SMA3 X Mt Gunson South SMGS X </td <td>Pt Macquarie</td> <td>NPMQ</td> <td></td> <td>Х</td> <td></td> <td></td> <td></td>	Pt Macquarie	NPMQ		Х			
Terranora (CE)	Pyrmont	NPT1		Х			
Taree (CE) NTR2 X Tenterfield NTTF X Vales Pt. (EA) NVP1 X Williamsdale NWDL X Wagga NWG2 X BHP (Waratah) (EA) NWR1 X Columboola - Condamine PS QCND X Cairns City QCNS X Wandoan South (NW Surat) QWST X Berri (POWERCOR) SBE1 X X Blanche (POWERCOR) SBL1 X X Blyth West SBLW X X Cathedral Rocks Wind Farm SCRK X X Kanmantoo SKAN X X Leigh Creek South SLCS X Mannum - Adelaide Pipeline 1 SMA1 X Mannum - Adelaide Pipeline 2 SMA2 X Mannum - Adelaide Pipeline 3 SMA3 X Murray Bridge - Hahndorf Pipeline 1 SMH1 X Murray Bridge - Hahndorf Pipeline 3 SMH2 X	Tomago	NTMG	Х	Х	Х		
Tenterfield NTTF X Vales Pt. (EA) NVP1 X Williamsdale NWDL X X Wagga NWG2 X BHP (Waratah) (EA) NWR1 X Columboola - Condamine PS QCND X Cairns City QCNS X Wandoan South (NW Surat) QWST X Berri (POWERCOR) SBE1 X X Berri (POWERCOR) SBL1 X X Blanche (POWERCOR) SBL1 X X SA Blyth West SBLW X Cathedral Rocks Wind Farm SCRK X Kanmantoo SKAN X Leigh Creek South SLCS X Mannum - Adelaide Pipeline 1 SMA1 X Mannum - Adelaide Pipeline 2 SMA2 X Mannum - Adelaide Pipeline 3 SMA3 X Mt Gunson South SMGS X Murray Bridge - Hahndorf Pipeline 1 SMH1 X Murray Bridge - Hahndorf Pipeline 2 SMH2 X Murray Bridge - Hahndorf Pipeline 3 SMH3 X Millbrook SMLB X Parafield Gardens West SPGW X Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X	Terranora (CE)	NTNR		Х			
Vales Pt. (EA) NVP1 X Williamsdale NWDL X X Wagga NWG2 X X BHP (Waratah) (EA) NWR1 X X Columboola - Condamine PS QCND X X Cairns City QCNS X X Wandoan South (NW Surat) QWST X X Berri (POWERCOR) SBE1 X X Blanche (POWERCOR) SBL1 X X Blyth West SBLW X X Cathedral Rocks Wind Farm SCRK X X Kanmantoo SKAN X X Leigh Creek South SLCS X X Mannum - Adelaide Pipeline 1 SMA1 X X Mannum - Adelaide Pipeline 2 SMA2 X X Mannum - Adelaide Pipeline 3 SMA3 X X Murray Bridge - Hahndorf Pipeline 1 SMH1 X X Murray Bridge - Hahndorf Pipeline 3 SMH3	Taree (CE)	NTR2		Х			
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Kanmantoo SKAN X Leigh Creek South SLCS X Mannum - Adelaide Pipeline 1 SMA1 X Mannum - Adelaide Pipeline 2 SMA2 X Mannum - Adelaide Pipeline 3 SMA3 X Mt Gunson South SMGS X Murray Bridge - Hahndorf Pipeline 1 SMH1 X Murray Bridge - Hahndorf Pipeline 2 SMH2 X Murray Bridge - Hahndorf Pipeline 3 SMH3 X Millbrook SMLB X Parafield Gardens West SPGW X Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X	Blyth West	SBLW		Х			
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Mt Gunson South Murray Bridge - Hahndorf Pipeline 1 Murray Bridge - Hahndorf Pipeline 2 Murray Bridge - Hahndorf Pipeline 2 Murray Bridge - Hahndorf Pipeline 3 Millbrook SMLB Parafield Gardens West Woomera SWMA X Newton TNT3 X Wilmot11 TSH1 X X X X X X X X X X X X X	Mannum - Adelaide Pipeline 2	SMA2		х			
Mt Gunson South Murray Bridge - Hahndorf Pipeline 1 Murray Bridge - Hahndorf Pipeline 2 Murray Bridge - Hahndorf Pipeline 2 Murray Bridge - Hahndorf Pipeline 3 Millbrook SMLB Parafield Gardens West Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Millmot11 SMGS X X X X X X X X X X X X X	Mannum - Adelaide Pipeline 3	SMA3		х			
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Murray Bridge - Hahndorf Pipeline 3 SMH3 X Millbrook SMLB X Parafield Gardens West SPGW X Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X		SMH2		х			
Millbrook SMLB X Parafield Gardens West SPGW X Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X		SMH3		х			
Parafield Gardens West SPGW X Woomera SWMA X Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X							
WoomeraSWMAXNewtonTNT3XLemonthymeTSH1XWilmot11TSH1X	Parafield Gardens West		Х				
Newton TNT3 X Lemonthyme TSH1 X Wilmot11 TSH1 X	Woomera			Х			
Lemonthyme TSH1 X Wilmot11 TSH1 X							
Wilmot11 TSH1 X							
	Wilmot11						
	Alcoa Portland	VAPD		X			



TNI Name	TNI Code	Type A	Type B	Type C	Type D	Type E
Altona	VATS	Х		Х		
Ballarat	VBAT	Х		Х		
Bendigo	VBE2	Х		Х		
Bendigo	VBE6	Х		Х		
Brooklyn (Jemena)	VBL2	Х	Х	Х		
Brooklyn (POWERCOR)	VBL3	Х	Х	Х		
Brooklyn (Jemena)	VBL6	Х	Х	Х		
Brooklyn (POWERCOR)	VBL7	Х	Х	Х		
Brunswick (CITIPOWER)	VBT2	Х	Х	Х		
Brunswick (Jemena)	VBTS	Х	Х	Х		
Cranbourne 220	VCB2		Х			
Cranbourne (UE)	VCB5	Х		Х		
Cranbourne (SPI Electricity)	VCBT	Х		Х		
East Rowville (SPI Electricity)	VER2	Х	Х	Х		
East Rowville (UE)	VERT	Х	Х	Х		
Fishermens Bend (POWERCOR)	VFB2	Х		Х		
Fishermens Bend (CITIPOWER)	VFBT	Х		Х		
Fosterville	VFVT	Х	Х			
Glenrowan	VGNT	Х		Х		
Geelong	VGT6	Х		X		
Horsham	VHOT	Х		Х		
Heatherton	VHTS	Х		Х		
Kerang	VKG2	Х	Х	X		
Kiamal	VKMT	Х				
Kerang	VKG6	X		X		
Keilor (Jemena)	VKT2	X	Х	X		
Keilor (POWERCOR)	VKTS	X		X		
Mt Beauty	VMBT	X		X		
Malvern	VMT2	Х		X		
Malvern	VMT6	Х		X		
Morwell TS	VMWT		Х			
Red Cliffs	VRC6	Х	Х	Х		
Red Cliffs (CE)	VRCA	Х	Х	х	X	
Richmond	VRT2	Х		х		
Richmond (UE)	VRT6	Х	Х	х		
Richmond (CITIPOWER)	VRT7	Х	Х	Х		
Ringwood (UE)	VRW2	Х	Х	Х		
Ringwood (SPI Electricity)	VRW3	Х	Х	х		
Ringwood (UE)	VRW6	Х	Х	х		



TNI Name	TNI Code	Type A	Type B	Type C	Type D	Type E
Ringwood (SPI Electricity)	VRW7	X	X	X		
Shepparton	VSHT	Χ	X	X		
Tatura	VSHT	Χ	X	X		
South Morang (Jemena)	VSM6		X			
South Morang (SPI)	VSMT		X			
Springvale (UE)	VSV2	X	X	X		
Springvale (CITIPOWER)	VSVT	X	X	X		
Tyabb	VTBT	X	X	X		
Terang	VTGT	X	X	X		
Templestowe (CITIPOWER)	VTS2	X	X	X		
Templestowe (SPI Electricity)	VTS3	X	X	X		
Templestowe (UE)	VTS4	X	X	X		
Templestowe (Jemena)	VTST	X	X	X		
Thomastown (SPI Electricity)	VTT2	X	X	X		
Thomastown (Jemena)	VTTS	X	X	X		
Wemen 66 (Ess Engy)	VWEA	X	X	X	X	
Wemen	VWET	X	X	X		
West Melbourne	VWM2	X	X	X		
West Melbourne (Jemena)	VWM6	X	X	X		
West Melbourne (CITIPOWER)	VWM7	X	X	X		
Wodonga	VWO6	Х	X	X		

A.2 Interconnector Special Site Connection Points

All physical and virtual *metering installations* located at *transmission network connection points* associated with the following TNI Codes relating to *interconnectors* are classified as Special Sites.

Interconnector Name	TNI Code	Type A	Type B	Type C	Type D	Type E
Dumaresq to Buli Creek	NRQD					Χ
Monash	MNSH					Χ
Mudgeeraba to Terranora	NRQ2					Χ
SESS to Heywood	VRSA					Χ
South East SS	SESS					Χ
Wodonga to Red Cliffs, Murray and Guthega	VRNS	Χ	Χ			Χ
Murraylink Interconnector	VRS2					Χ

A.3 Generator Special Site Connection Points

All physical and virtual *metering installations* relating to market *generation connection points* associated with the following Connection Point IDs are classified as Special Sites.



Generator Name	Connection Point ID	TNI Code	Type A	Type B	Type C	Type D	Type E
Blowering Ancillary Services	NBLW1	NBLW		X			
Blowering	NBLW8	NBLW		X			
Blowering	NBLW8	NBLW		X			
Burrinjuck	NBUK	NBUK		X			
Colongra PS Unit 1	NCLG1D	NCLG		X			
Colongra PS Unit 2	NCLG2D	NCLG		X			
Colongra PS Unit 3	NCLG3D	NCLG		X			
Colongra PS Unit 4	NCLG4D	NCLG		X			
Brown Mountain	NCMA1	NCMA		X			
Jindabyne Generator	NCMA2	NCMA		X			
Capital Wind Farm	NCWf1R	NCWF		X			
Woodland Wind Farm	NCWF2W	NCWF		X			
Jemalong Solar Farm	NFBS1J	NFBS		X			
Jindabyne pump at Guthega	NGJP	NGJP	X	X	X		
Guthega	NGUT	NGUT	X		X		
Guthega	NGUT8	NGUT	X		X		
Liddell PS Unit 1	NLDP1	NLDP		X			
Liddell PS Unit 2	NLDP2	NLDP		X			
Liddell PS Unit 3	NLDP3	NLDP		X			
Liddell PS Unit 4	NLDP4	NLDP		X			
Liddell PS Load	NLDPL	NLDP		X			
Lower Tumut Ancillary Services 2 (pumps)	NLTS3	NLTS		X			
Lower Tumut[1]	NLTS8	NLTS	X		X		
Murray	NMUR8	NMUR	X		X		
Teralba Power Station	NNEW1	NNEW		X			
Wallgrove BESS	NSWB1W	NSWB	X				
Tomago 1	NTMG1	NTMG	X	X	X		
Tomago 2	NTMG2	NTMG	X	X	X		
Tomago 3	NTMG3	NTMG	X	X	X		
Upper Tumut	NUTS	NUTS	X		X		
Upper Tumut	NUTS8	NUTS	X		X		
Vales Point PS Unit 5	NVPP5	NVPP		X			
Vales Point PS Unit 6	NVPP6	NVPP		X			
Vales Point PS Load	NVPPL	NVPP		X			
Condamine PS	QCND1C	QCND	X	X			
Mt Stuart PS Unit 1	QMSP1	QMSP		X			
Mt Stuart PS Unit 2	QMSP2	QMSP		X			



Mt Stuart PS Unit 3 QMSP3M QMSP X Oakey PS Unit 1 QOKY1 QOKY X Oakey PS Unit 2 QOKY2 QOKY X Yabulu PS QTYP QTYP X Sun Metals SF QTZS1S QTZS X Wandoan South - BESS QWSB1W QWSB X Snowtown Wind Farm Stage 2 - North SBLWS1 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet PS SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley BESS - Sen SHVA3H SHVA X Lake Bonney Wind Farm Stage 2 SMAY3W SMAY </th <th>Generator Name</th> <th>Connection Point ID</th> <th>TNI Code</th> <th>Type A</th> <th>Type B</th> <th>Type C</th> <th>Type D</th> <th>Type E</th>	Generator Name	Connection Point ID	TNI Code	Type A	Type B	Type C	Type D	Type E
Oakey PS Unit 2 QOKY2 QOKY X Yabulu PS QTYP QTYP X Sun Metals SF QTSS1S QTSS X Wandoan South - BESS QWSB1W QWSB X Snowtown Wind Farm Stage 2 - North SBLWS1 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Hallet PS SHPS1 SHPS X Halppy Valley BESS - Gen SHVA1H SHVA X	Mt Stuart PS Unit 3	QMSP3M	QMSP		X			
Yabulu PS QTYP QTYP X Sun Metals SF QTZS1S QTZS X Wandoan South - BESS QWSB1W QWSB X Snowtown Wind Farm Stage 2 - North SBLWS2 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet Brown Hill Wind Farm SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lake Bonney Wind Farm Stage 2B SMAY3M SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMW2 X Acteal Desalination Plan	Oakey PS Unit 1	QOKY1	QOKY		X			
Sun Metals SF	Oakey PS Unit 2	QOKY2	QOKY		X			
Wandoan South - BESS QWSB1W QWSB X Snowtown Wind Farm Stage 2 - North SBLWS1 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet Brown Hill Wind Farm SDCA3 SDPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Lake Bonney Wind Farm Stage 2B SMAY3W X X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X	Yabulu PS	QTYP	QTYP		X			
Snowtown Wind Farm Stage 2 - North SBLWS1 SBLW X Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley SESS - Load SHVA3H SHVA X Lincoln Gap WF SLCWIL SLGW X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X	Sun Metals SF	QTZS1S	QTZS	X				
Snowtown Wind Farm Stage 2 - South SBLWS2 SBLW X Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet PS SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley BESS - Cen SHVA3H SHVA X Happy Valley BESS - Cen SHVA3H SHVA X Lincoln Gaw F SLCWIL SLGW X Lake Bonney Wind Farm Stage 2B SMYAY X X Lake Bonney Sind Farm Stage 2B <td>Wandoan South - BESS</td> <td>QWSB1W</td> <td>QWSB</td> <td>X</td> <td></td> <td></td> <td></td> <td></td>	Wandoan South - BESS	QWSB1W	QWSB	X				
Dry Creek PS Unit 1 SDCA1 SDPS X Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet Brown Hill Wind Farm SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lincoln Gap WF SLCW1L SLGW X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMY X Lake Bonney Wind Farm Stage 2B SMAY3W SMY X Lake Bonney Wind Farm Stage 2B SMWY X X Lake Bonney Wind Farm Stage 2B SMY X X Adelaide Des	Snowtown Wind Farm Stage 2 - North	SBLWS1	SBLW		X			
Dry Creek PS Unit 2 SDCA2 SDPS X Dry Creek PS Unit 3 SDCA3 SDPS X Hallet PS SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lincoln Gap WF SLCW1L SLGW X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMYE X Lake Bonney Wind Farm Stage 3 SMAY4A SMYE X Lake Bonney Wind Farm Stage 2B SMAY3W X X Lake Bonney Wind Farm Stage 2B SMAY3W X X Lake Bonney Wind Farm Stage 2B SMAY3W X X Lake Bonney Wind Farm Stage 2B SMYAY X X Morgan Whyalla 2 S	Snowtown Wind Farm Stage 2 - South	SBLWS2	SBLW		X			
Dry Creek PS Unit 3 SDCA3 SDPS X Hallet PS SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lincoln Gap WF SLCW1L SLGW X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Adelaide Desalination Plant SMVE6D SMVE X Morgan Whyalla 2 SF SMW21M SMVE X Morgan Whyalla 4 SF SMW21M SMW2 X Parafield Gardens West SPGW3B SPGW X Port Lincoln SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS B Unit 1 STSB1	Dry Creek PS Unit 1	SDCA1	SDPS		X			
Hallet PS SHPS1 SHPS X Hallet Brown Hill Wind Farm SHPS2W SHPS X Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lincoln Gap WF SLCW1L SLGW X Lake Bonney Wind Farm Stage 3 SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 2B SMAY4W X X Lake Bonney Wind Farm Stage 2B SMAY4W X X Lake Bonney Wind Farm Stage 2B SMAY4W X X Morgan Whyalla 2 SF SMW1M X X Part St	Dry Creek PS Unit 2	SDCA2	SDPS		X			
Hallet Brown Hill Wind Farm	Dry Creek PS Unit 3	SDCA3	SDPS		X			
Happy Valley BESS - Gen SHVA1H SHVA X Happy Valley BESS - Load SHVA2H SHVA X Happy Valley - SF SHVA3H SHVA X Lincoln Gap WF SLCW1L SLGW X Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Adelaide Desalination Plant SMVE6D SMVE X Morgan Whyalla 2 SF SMW21M SMW1 X Morgan Whyalla 4 SF SMW21M SMW2 X Parafield Gardens West SPGW3B SPGW X Port Lincoln SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS B Unit 3 STSA3 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4	Hallet PS	SHPS1	SHPS		X			
Happy Valley BESS - Load	Hallet Brown Hill Wind Farm	SHPS2W	SHPS		X			
Happy Valley - SF Lincoln Gap WF Lincoln Gap WF Lake Bonney Wind Farm Stage 2B SMAY3W SMAY Lake Bonney Wind Farm Stage 3 SMAY4A SMAY Adelaide Desalination Plant SMVE6D SMVE Morgan Whyalla 2 SF SMW21M SMW1 Morgan Whyalla 4 SF SMW41M SMW2 X Parafield Gardens West Port Lincoln SPLN SPLN SPLN Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 4 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X STSY X STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TGO1 X	Happy Valley BESS - Gen	SHVA1H	SHVA	X				
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Lake Bonney Wind Farm Stage 2B SMAY3W SMAY X Lake Bonney Wind Farm Stage 3 SMAY4A SMAY X Adelaide Desalination Plant SMVE6D SMVE X Morgan Whyalla 2 SF SMW21M SMW1 X Morgan Whyalla 4 SF SMW41M SMW2 X Parafield Gardens West SPGW3B SPGW X Port Lincoln SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS A Unit 1 STSB1 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI1 X Gordon TGO11 TGO11 X	Happy Valley - SF	SHVA3H	SHVA	X				
Lake Bonney Wind Farm Stage 3 Adelaide Desalination Plant SMVE6D SMVE X Morgan Whyalla 2 SF SMW21M SMW1 X Morgan Whyalla 4 SF SMW41M SMW2 X Parafield Gardens West Port Lincoln SPLN SPLN SPLN Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS A Unit 4 STSA5 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY Cethana TCE11 TCE1 X Devils gate TDG11 TG01 X TG011 TG01 X	Lincoln Gap WF	SLCW1L	SLGW	X				
Adelaide Desalination Plant Morgan Whyalla 2 SF SMW21M SMW1 X Morgan Whyalla 4 SF SMW41M SMW2 X Parafield Gardens West Port Lincoln SPLN SPLN SPLN Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 Torrens Island PS B Unit 3	Lake Bonney Wind Farm Stage 2B	SMAY3W	SMAY		X			
Morgan Whyalla 2 SF Morgan Whyalla 4 SF SMW41M SMW2 X Parafield Gardens West Port Lincoln SPLN SPLN SPLN Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 Torrens Island PS B Unit 4 STSB4 Torrens Island PS Dunit 4 Torrens Island P	Lake Bonney Wind Farm Stage 3	SMAY4A	SMAY		X			
Morgan Whyalla 4 SF Parafield Gardens West SPGW3B SPGW X Port Lincoln SPLN SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TG01 X Gordon TG011 TG01 X	Adelaide Desalination Plant	SMVE6D	SMVE	X				
Parafield Gardens West SPGW3B SPGW X Port Lincoln SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS B Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI11 TG01 X	Morgan Whyalla 2 SF	SMW21M	SMW1	X				
Port Lincoln SPLN SPLN X Torrens Island PS A Unit 1 STSA1 STPS X Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI11 X Gordon TGO11 TGO11 X	Morgan Whyalla 4 SF	SMW41M	SMW2	X				
Torrens Island PS A Unit 1 Torrens Island PS A Unit 2 STSA2 STPS X Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 Torrens Island PS B Unit 4 Torrens Island PS B Unit 4 Torrens Island PS Dunit 4 Torrens Island PS D	Parafield Gardens West	SPGW3B	SPGW	X				
Torrens Island PS A Unit 2 Torrens Island PS A Unit 3 STSA3 STPS X Torrens Island PS A Unit 4 STSA4 STPS X Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] Gordon TGO11 TGO11 X	Port Lincoln	SPLN	SPLN		X			
Torrens Island PS A Unit 3 Torrens Island PS A Unit 4 Torrens Island PS B Unit 1 Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] Gordon TGO11 TGO1 X	Torrens Island PS A Unit 1	STSA1	STPS		X			
Torrens Island PS A Unit 4 Torrens Island PS B Unit 1 STSB1 STPS X Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL Cethana TCE11 TCE1 X Devils gate TDG11 TG11 X Gordon TG011 TG01 X	Torrens Island PS A Unit 2	STSA2	STPS		X			
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Torrens Island PS B Unit 2 STSB2 STPS X Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] Gordon TGO11 TGO1 X	Torrens Island PS A Unit 4	STSA4	STPS		X			
Torrens Island PS B Unit 3 STSB3 STPS X Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI1 X Gordon TGO11 TGO1 X	Torrens Island PS B Unit 1	STSB1	STPS		X			
Torrens Island PS B Unit 4 STSB4 STPS X Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TG01 X Gordon	Torrens Island PS B Unit 2	STSB2	STPS		X			
Torrens Island PS Load STSYL STSY X Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI1 X Gordon TGO11 TGO1 X	Torrens Island PS B Unit 3	STSB3	STPS		X			
Cethana TCE11 TCE1 X Devils gate TDG11 TDG1 X Fisher[4] TFI11 TFI1 X Gordon TGO11 TGO1 X	Torrens Island PS B Unit 4	STSB4	STPS		X			
Devils gate TDG11 X Fisher[4] TFI11 TFI1 X Gordon TGO11 TGO1 X	Torrens Island PS Load	STSYL	STSY		X			
Fisher[4] TFI11 X Gordon TGO11 TGO1 X	Cethana	TCE11	TCE1		X			
Gordon TGO11 TGO1 X	Devils gate	TDG11	TDG1		X			
	Fisher[4]	TFI11	TFI1		X			
Liapootah10 TLI11 X X X	Gordon	TGO11	TGO1		X			
	Liapootah10	TLI11	TLI1	X	X	X		



Generator Name	Connection Point ID	TNI Code	Type A	Type B	Type C	Type D	Type E
Wayatinah10	TLI11	TLI1		X			
Mackintosh	TMA11	TMA1		X			
Paloona	TPA11	TPA1		X			
Poatina	TPM11	TPM1		X			
Poatina	TPM21	TPM2		X			
Tarraleah	TTA11	TTA1		X			
Tribute	TTI11	TTI1		X			
Trevallyn	TTR11	TTR1		X			
Tungatinah	TTU11	TTU1		X			
Wayatinah	TWY2	TWY2		X			
Portland DU 1	VAPD1	VAPD		X			
Portland DU 2	VAPD2	VAPD		X			
Bulgana WF	VBGT1B	VBGT	X				
Bulgana BESS Gen	VBGT2B	VBGT	X				
Bulgana BESS Load	VBGT3B	VBGT	X				
Dartmouth PS	VDPS	VDPS		X			
Banimboola	VDPS2	VDPS		X			
Stockyard Hill WF	VHGT1S	VHGT	X				
Hazelwood PS Load	VHWPL	VHWP	X	X	X		
Loy Yang A PS Unit 1	VLYP1	VLYP			X		
Loy Yang A PS Unit 2	VLYP2	VLYP	X	X	X		
Loy Yang A PS Unit 3	VLYP3	VLYP	X	X	X		
Loy Yang A PS Unit 4	VLYP4	VLYP			X		
Dundonnell WF	VM051D	VM05	X				
Bogong PS and McKay Creek PS	VMKP1	VT14		X			
Victorian Big Battery	VMLB1V	VMLB	X				
Victorian Big Battery	VMLB2V	VMLB	X				
Morwell PS G4	VMWP4	VMWP	X	X	X		
Morwell PS G5	VMWP5	VMWP	X	X	X		
Morwell PS G1, 2 and 3	VMWT1	VMWG	X	X	X		
Morwell PS Load	VMWTL	VMWT	X	X	X		
Newport PS	VNPS	VNPS		X			
West Kiewa PS Unit 1	VWKP1	VWKP		X			
West Kiewa PS Unit 2	VWKP2	VWKP		X			
Yallourn W PS Unit 1	VYP21	VYP3	X	X	X		



