



Independent Pricing and Regulatory Tribunal
New South Wales

Electricity networks reporting manual – Transmission reliability standard – Reliability standard reset reporting

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ISBN 978-1-76049-295-3

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Amendment record

Issue	Date issued	Amendments made
ENRM – Transmission reliability standard	October 2017	First issue of the new reporting manual for transmission reliability.
ENRM – Transmission reliability standard	April 2018	Inserting sign-off requirements on reports. Minor formatting improvements.
ENRM – Transmission reliability standard – Reliability Standard reset reporting	March 2019	Transmission reliability reporting manual split into two reporting manuals to separate initial reporting against the Transmission Reliability and Performance Standard and annual reporting. Also includes reporting requirements for flexibility plans implemented under sections 5 and 6 of the Standard.

Contents

1	Compliance with transmission reliability and performance standard	4
2	Transmission reliability standard reset reports	5
2.1	Information regarding compliance with clause 3 of the Standard – Level of redundancy	5
2.2	Information regarding compliance with clause 4 of the Standard – Expected Unserved Energy	5
2.3	Supporting documentation – Sharing of assets and non-network solutions	6
2.4	Network/circuit diagrams relevant to compliance with the Standard	6
2.5	Timing and lodgement	6

1 Compliance with transmission reliability and performance standard

Reporting requirements outlined in this document apply to TransGrid¹ only.

TransGrid is required, under condition 3 of its operating licence, to comply with any transmission reliability and performance standard issued by the Minister. The *NSW Electricity Transmission Reliability and Performance Standard 2017* (Standard) was issued by the Minister for Energy and Utilities on 1 June 2017, to apply from 1 July 2018. The Independent Pricing and Regulatory Tribunal (IPART) intends to review the Standard periodically.

TransGrid is also required under condition 11 of its operating licence to prepare and submit reports in accordance with any applicable reporting manuals issued by IPART. The reporting requirements outlined in this reporting manual and the *Electricity networks reporting manual-Transmission reliability standard – Annual reporting and additional information requirements* will assist IPART to determine whether or not the licence holder is complying with the Standard.

¹ NSW Electricity Networks Operations Pty Limited (ACN 609 169 959) as trustee for the NSW Electricity Networks Operations Trust.

2 Transmission reliability standard reset reports

For IPART to assess compliance with the Standard, TransGrid must report in accordance with this reporting manual and the *Electricity networks reporting manual – Transmission reliability standard – Annual reporting and additional information requirements*.

The detailed compliance information detailed in this reporting manual is only required in the first financial year after any revision of the *Transmission Reliability and Performance Standard* (Standard). TransGrid must also report in accordance with the *Electricity networks reporting manual – Transmission reliability standard – Annual reporting and additional information requirements*, in the financial year after any revision of the Standard.

2.1 Information regarding compliance with clause 3 of the Standard – Level of redundancy

For each bulk supply point (BSP), TransGrid is required to:

- ▼ report on the level of planned redundancy in respect of that BSP, and
- ▼ provide a network/circuit diagram depicting how that level of redundancy is achieved.

For a BSP where non-network solutions are relevant to the level of redundancy achieved, TransGrid is required to submit documentation which demonstrates how the non-network solutions contribute to achieving the level of redundancy, such as any relevant third party agreements. For third party agreements, we will consider what the arrangement is and how it will impact on compliance with the redundancy requirements of the reliability standard. We will also have regard to minutes from joint planning meetings that evidence the network arrangement and the term of the arrangement.

2.2 Information regarding compliance with clause 4 of the Standard – Expected Unserved Energy

TransGrid is required to report its levels of expected unserved energy (EUE) for each of its BSPs. IPART assesses TransGrid's compliance using the method available on our website.

For each BSP, TransGrid is also required to report the numerical inputs used to calculate the amount of unserved energy. These inputs are:

- | | |
|---|--|
| ▼ failures per transformer per annum | ▼ mean hours to replace/repair transformer |
| ▼ failures per annum per 100km of overhead line | ▼ mean hours to repair overhead line |
| ▼ failures per annum per 100km of underground cable | ▼ mean hours to repair cable. |

2.3 Supporting documentation – Sharing of assets and non-network solutions

2.3.1 Agreements for the sharing of assets

Where the EUE calculation includes the use of assets controlled by a party other than TransGrid, TransGrid must submit documentation supporting an agreement to use these assets. For these agreements, we will consider documentation outlining:

- ▼ the network arrangement, and the duration of that arrangement, where the agreement is for compliance with redundancy requirements, or
- ▼ an asset's contribution to the EUE calculations of a BSP.

Such supporting documents could include signed meeting minutes of joint planning meetings or an exchange of letters between TransGrid and a distribution network operator. Supporting documents must be submitted to IPART as an attachment to the annual report.

2.3.2 Non-network solutions

For a BSP where non-network solutions are relevant to the calculation of EUE, TransGrid must provide supporting documentation of how the non-network solutions affect the level of EUE of the BSP.

2.4 Network/circuit diagrams relevant to compliance with the Standard

TransGrid is required to provide network/circuit diagrams for each BSP, as part of the reliability standard reset report.

TransGrid is required to report network/circuit diagrams in its annual report, where a permanent change to the network is made that impacts compliance with the Standard.

2.5 Timing and lodgement

TransGrid must provide to IPART a reliability standard reset report in the first financial year after any revision of the Standard. It must be submitted by 31 August, or another date approved by IPART.

TransGrid must lodge reliability standard reset reports by email to energy@ipart.nsw.gov.au. It should provide contact details (phone, email) of the primary contact as well as an alternative contact for those times when the primary contact is unavailable.

