

Transmission System Plan (Draft) 2023 - Response to Submissions

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Purpose

The Transmission System Plan (TSP) is produced in conjunction with the Network Opportunity Map, outlining the challenges and opportunities facing power system security and reliability on the SWIS transmission system in the coming decade. It also provides a summary of Western Power's proposed network development plans to address these challenges, while maximising the long-term interest of customers.

The TSP is produced annually by Western Power as part of the annual planning cycle, and as per the Wholesale Electricity Market (WEM) Rules Chapter 4.5B – Transmission System Plan.

In accordance with the WEM Rules, the TSP is published in draft for public feedback with the opportunity to provide submissions open for a minimum of 20 business days. A final version of the TSP, which considers the feedback contained in the submissions received on the draft, together with Western Power's response to the received submissions (Response to Submissions), is published in conjunction with the Network Opportunity Map prior to 1 October, annually.

The Transmission System Plan (Draft) 2023, and an invitation for public feedback submissions was published on 26 July 2023 and remained open until 23 August 2023.

This document captures the key updates made to the draft TSP 2023, and provides a summary of the submissions received, and Western Power's response.

1. Submissions and Western Power’s Response

Western Power received formal submissions on the draft TSP 2023 from five stakeholders. These submissions have been considered by Western Power and responded to in the table below:

Summary of Submission	Western Power’s Response
<p><u>Western Power scope of analysis in the TSP</u></p> <p>One stakeholder suggested Western Power should increase the scope of analysis in the TSP, including increasing the number of load and generation dispatch scenarios, and modelling network congestion, and system strength and stability analysis.</p>	<p>Western Power is continuously working to increase the scope of analysis in its Transmission System Plan (TSP). These improvements are in alignment with future TSPs and we will continue to work with stakeholders to identify and address emerging challenges on the network.</p> <p>Western Power works collaboratively with government and the Australian Energy Market Operator on system strength and stability analysis via other forums.</p>
<p><u>Alignment of the TSP with the Electricity Statement of Opportunities (ESOO) forecast data released on 17 August 2023</u></p> <p>Two stakeholders seek to understand the differences between the Western Power forecast contained in the draft TSP 2023 and the ESOO.</p>	<p>Western Power has included a new section (Section 6.4.1) in the final TSP 2023 outlining the differences between Western Power’s forecast and the ESOO forecast data.</p>
<p><u>SWISDA – Western Power planned investments.</u></p> <p>Three stakeholders have expressed an interest in SWISDA and seek more information about Western Power’s planned investments.</p>	<p>Western Power acknowledges the interest from external stakeholders on the SWISDA related planned investments.</p> <p>The State Government is progressing consultation and collaboration with existing and new industrial users to inform network investment, including mechanisms for industry contributions and third-party investments.</p> <p>As more information on individual SWISDA investments become available, including scope, timeframes and staging, the most up to date information will be included in subsequent TSPs at the time of publishing.</p> <p>The final TSP 2023 provides details of the high-level scope work for the first two proposed projects.</p>
<p><u>Western Power’s Proposed Network Investments</u></p> <p>One stakeholder has raised queries/concerns around timing of Western Power’s investments in the Metro South Region for certain locations.</p>	<p>Western Power acknowledges the growing demand in the area and has investments initiated to determine a suitable solution to address the capacity constraints. Section 14 of the final TSP 2023 has been updated to provide further clarity of Western Power’s investment plan/timing.</p>

2. Updates to the Transmission System Plan (Draft) 2023

Western Power considered the responses received as detailed in Section 1 above and has made changes/updates to the draft TSP 2023 as deemed appropriate.

In addition to considering the stakeholder feedback, Western Power also identified additional updates required in the final TSP 2023. A summary of the updates made is captured below:

- Added Disclaimer to the final TSP 2023 document.
- Updated additional clarity of the East Region Stage 1 works in Section 3.4.4.
- Updated figures in Section 6.6.2 to reflect incorrect graphs previously (Figures 7 to 11).
- Updated title for Figure 12 to reflect graph.
- Updated Section 7.1 to reflect stakeholder feedback.
- Tables for Substation utilisation heat maps for all regions have been updated with additional commentary in relation to “Managed by Distribution Transfers” to provide further clarity.
- Updated text, to reflect export boundaries as shown in the Figure 32.
- Updated section 10.3.7 and 12.3.7 to reflect commentary and discussions with stakeholders.
- Updated Section 12.1 to include Merredin Solar Farm in the Customer substation list.
- Figure 36 and Figure 40 updated.
- Updated Section 12.3.1 to reflect stakeholder feedback.
- Updated Section 12.3.2 updated to reflect specialised protection schemes and mitigation options.
- Table 18 updated to reflect Bounty substation available capacity based on recent Technical Rules exemption.
- Appendix B updated following stakeholder feedback on analysis assumptions.
- As noted in the Editor Note in the draft TSP 2023 released, Appendix D has been updated.