

FRG Consultation report

April 2022

Unplanned transmission outage
rates



1 Stakeholder Consultation Process

The Australian Energy Market Operator (AEMO) uses unplanned transmission outage rate forecasts in its annual reliability assessment for the Electricity Statement of Opportunities (ESOO). AEMO's Reliability Forecasting Guidelines explains AEMO's approach to stakeholder engagement for the Reliability Forecast, including the role of Forecasting Reference Group (FRG) Consultations.

AEMO commenced an FRG Consultation on methodology updates for unplanned transmission outage rates on 27 January 2022. During that meeting, AEMO presented the updates and facilitated stakeholder discussion.

AEMO's timeline for this consultation is outlined below.

Deliverable	Indicative date
Notice of FRG Consultation circulated to FRG stakeholders	20 January 2022
Forecasting Reference Group presentation and discussion	27 January 2022
FRG Consultation Submissions due	10 February 2022
FRG Consultation Report published	26 April 2022

2 Consultation details


To guide stakeholder understanding of the proposed changes, the FRG Consultation notification email (20 January 2022) included an explanatory presentation. Note that, as described in the Reliability Forecasting Guidelines, to preserve confidentiality of participant data, AEMO was limited in the level of detail it could provide when presenting results and answering detailed questions about the data.

The presentation included the following consultation questions:

1. Which lines should be included in unplanned transmission outage rate calculations?
 - a. Are the proposed selection criteria appropriate, or are further considerations required?
 - b. Are the lines proposed for 2022 an appropriate implementation of those selection criteria?
2. How should unplanned transmission outage rates be calculated?
 - a. Is the proposed process for gathering observed and projected unplanned outage rates appropriate?
 - b. Are long duration unplanned outages observed on transmission elements sufficiently different from long duration forced outages observed on generators to require special consideration?
3. How should the unplanned transmission outage rate constraints be implemented?
 - a. Is the proposed process for implementing constraints during simulated unplanned outages appropriate?

Following the Unplanned transmission outage rates methodology presentation¹, AEMO asked for feedback during the FRG meeting or during the subsequent two week written submission window.

¹ Available in 2022 *FRG meeting pack 1* and in FRG Consultations 2022 *FRG Consultation– Unplanned transmission outage rates* at: <https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/forecasting-reference-group-frg>



A clarification was suggested by Ron Logan (Shell) at the FRG regarding Criteria #3. This clarification will be included in the updated presentation published with the consultation report. The minutes also confirm that FCAS constraints will not be included in outage calculations.

The January 2022 FRG was attended by 64 stakeholders. No additional written submissions were received.

The consultation material and meeting minutes are available under “FRG Consultations” at:

<https://aemo.com.au/en/consultations/industry-forums-and-working-groups/list-of-industry-forums-and-working-groups/forecasting-reference-group-frg>

3 Conclusion

Following review of the FRG meeting, AEMO considers the meeting discussion consisted of general acceptance and clarifying questions on the methodology rather than submissions, and the answers provided to these questions adequately addressed the stakeholder questions.

AEMO considers the consulted-on unplanned transmission outage rates methodology fit for the reliability forecast. AEMO will update the ESOO and Reliability Forecast methodology document with the consulted-on methodology, and publish in August alongside the 2022 ESOO.