

Marginal Loss Factor Backcast Results 2022-23

December 2023



2022-23 MLF Backcast Results

This document contains the results of the 2022-23 MLF back cast study.

Traditionally, these results have been presented at a forum held in the month of December. As the 2023 forum has been delayed until January 2024, the initial results are presented here with further detail including commentary on the findings to be provided at the January 2024 forum.

Introduction

Methodology for historical comparison

While the historical comparison study has utilised inputs representative of historical outcomes (load/generation), there are limitations when performing historical MLF comparisons:

- A single system normal network model is implemented.
- DC interconnectors in parallel with AC interconnectors operate on a relationship derived from historical outcomes however will not result in exact alignment.
- Historic network outages are not captured in the model.

Drivers of variation

Generator connection/commissioning delays

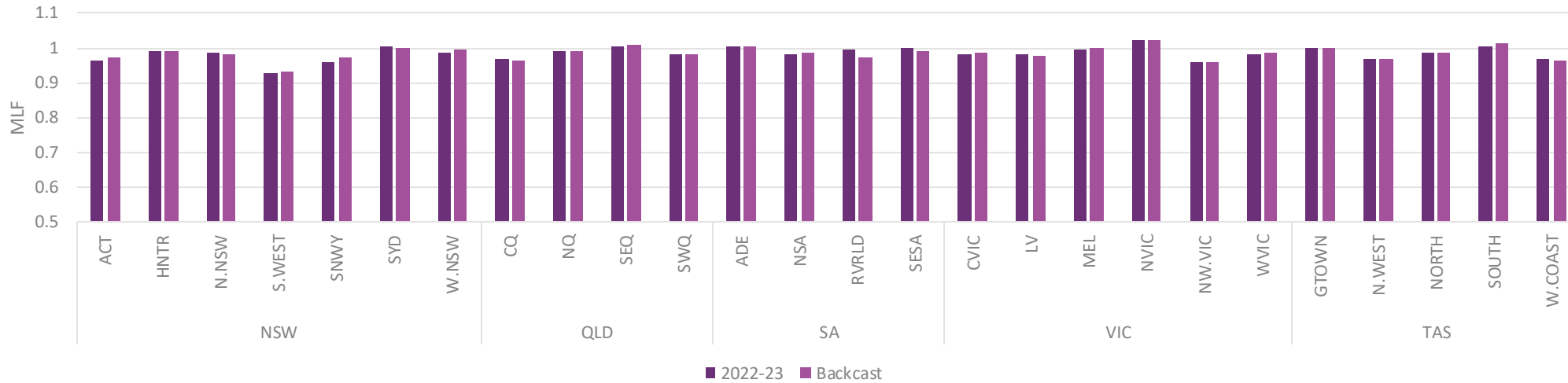
- Timing of connection, commissioning and subsequently commercial operation of new generation capacity continues to be challenging.

Operational limits

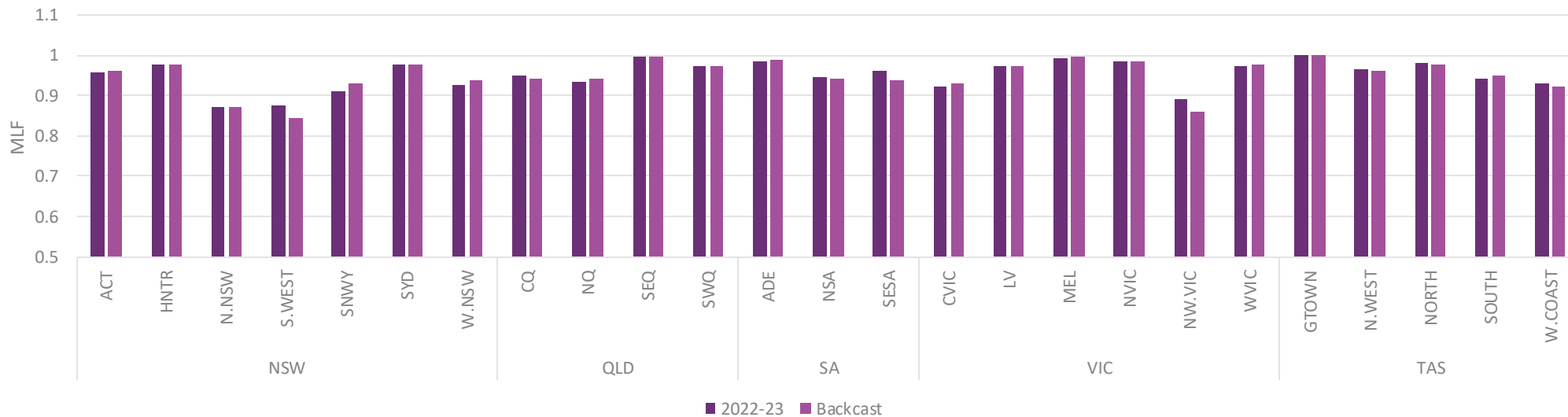
- Several new system normal limits, and revisions to existing limits impacted on both generation and inter-regional transfers.
- Improvements have been made in this space, however difficult to forecast impact of limits up to 15 months in advance.

Regional average MLFs Variation

2022-23 Back cast Load Comparison



2022-23 Back cast Generation Comparison



Feedback & further information

- Feedback can be provided directly to:
MLF_feedback@aemo.com.au
- Methodology and MLF publications can be found at:
<https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Security-and-reliability/Loss-factor-and-regional-boundaries>



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