Draft 2024 peak day gas demand forecast

29 November 2023

Purpose and agenda

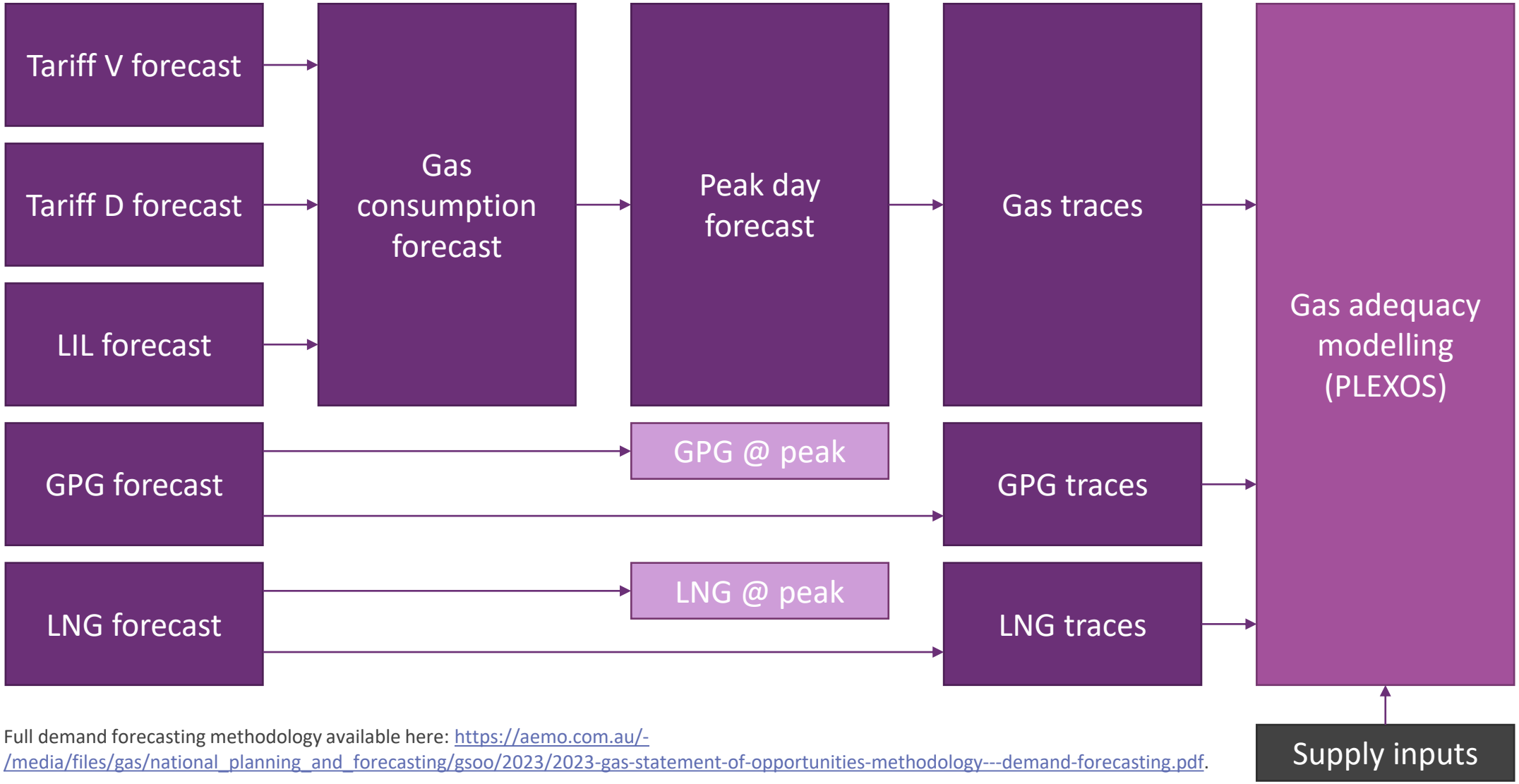
The purpose of this presentation is to *consult* the FRG on the draft peak day gas demand forecasts developed for the 2024 Gas Statement of Opportunities.

Today's Agenda includes:

- Gas demand forecasting process
- Scenario recap
- Gas consumption forecast updates
- Results by region
- Discussion

Timing	Relevant topic	Responsible
Nov 22	Draft 2023 gas consumption forecasts	AEMO, FRG
Dec 22 – Feb 23	Draft 2023 IASR consultation	AEMO, Stakeholders
Jul 23	2023 Inputs Assumptions and Scenarios Report published	AEMO
15 Nov 2023	Draft 2024 gas consumption forecasts at FRG	AEMO, FRG
29 Nov 23	**Draft 2024 gas peak day forecasts**	**AEMO, FRG**
March 2024	2024 GSOO published	AEMO

GSOO demand forecasting process



Full demand forecasting methodology available here: https://aemo.com.au/-/media/files/gas/national_planning_and_forecasting/gsoo/2023/2023-gas-statement-of-opportunities-methodology---demand-forecasting.pdf.

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GSOO scope (scenarios and regions)

Driver	Progressive Change	Step Change	Green Energy Exports
Theme	Challenging economic conditions and supply chain disruptions	Strong consumer uptake of consumer energy resources	Development of a green energy export economy
Economic growth	Slower growth	Moderate growth	High growth
Energy efficiency	Lower	Moderate	Higher
Electrification (excl. EV)	Moderate	High	Very high
*Representative concentration pathway (RCP)	RCP 4.5 (around 2.6°C temperature rise by the end of the century)	RCP 2.6 (consistent with limiting temperature rise to < 2°C)	RCP 1.9 (consistent with limiting temperature rise to 1.5°C)

**RCPs are greenhouse gas concentration trajectories adopted by IPCC.*

Northern Territory (domestic gas) included fully in forecast for the first time

Peak day forecast

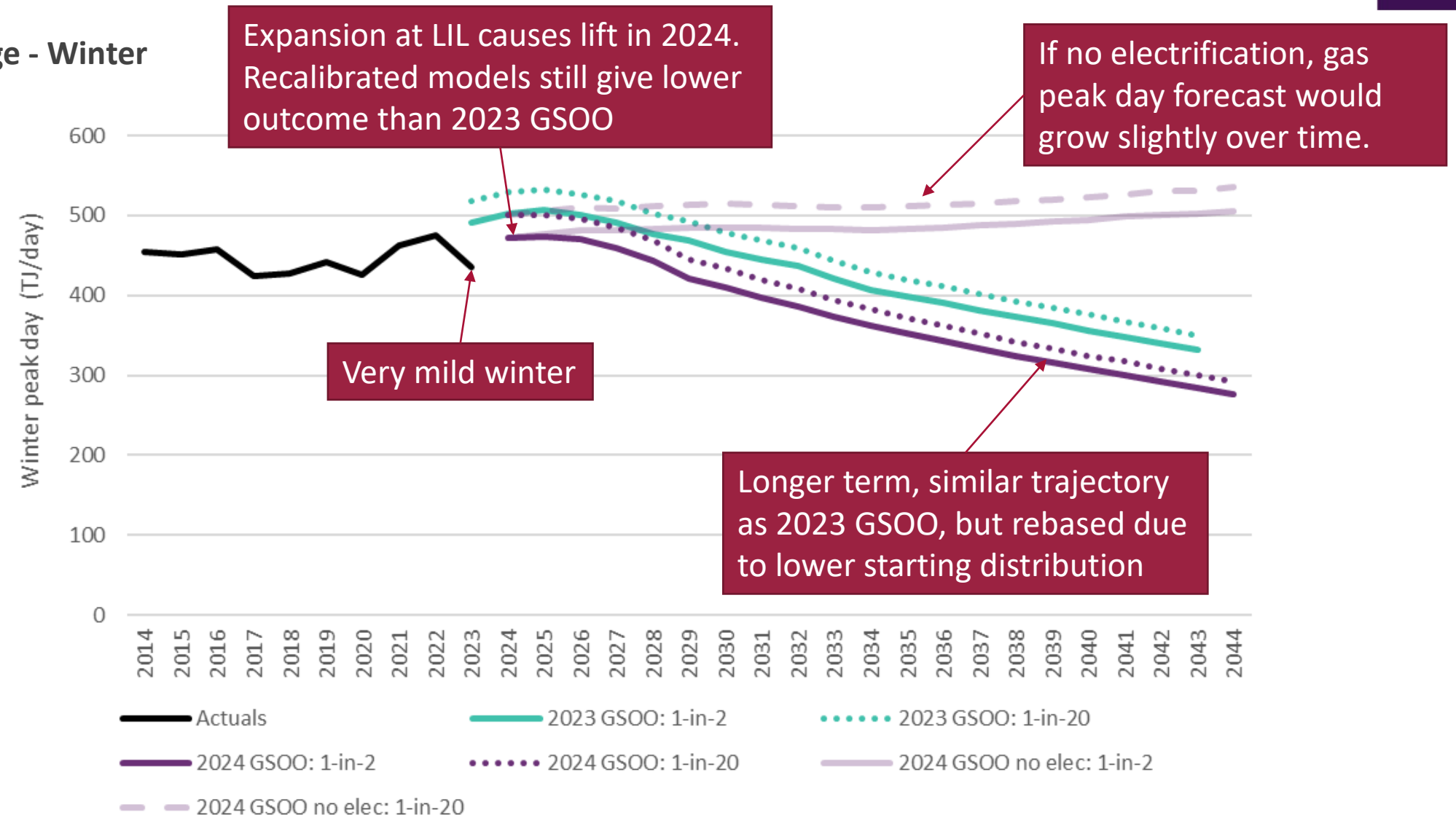
- The following slides focusses on:
  - Draft 2024 GSOO Step Change forecast
  - Final 2023 GSOO Step Change forecast

- For illustration, a version of the 2024 GSOO Step Change forecast without any electrification is shown.
  - It will highlight the short-term upside risk from delayed electrification.
  - It is not a meaningful scenario longer term, being inconsistent with net zero ambitions and state-policies around gas connections.

- In these forecasts, the contributions of hydrogen and biomethane have been netted off – therefore showing ‘natural gas’ peak demands, rather than ‘gas’.

Draft peak day forecast – NSW

Step Change - Winter



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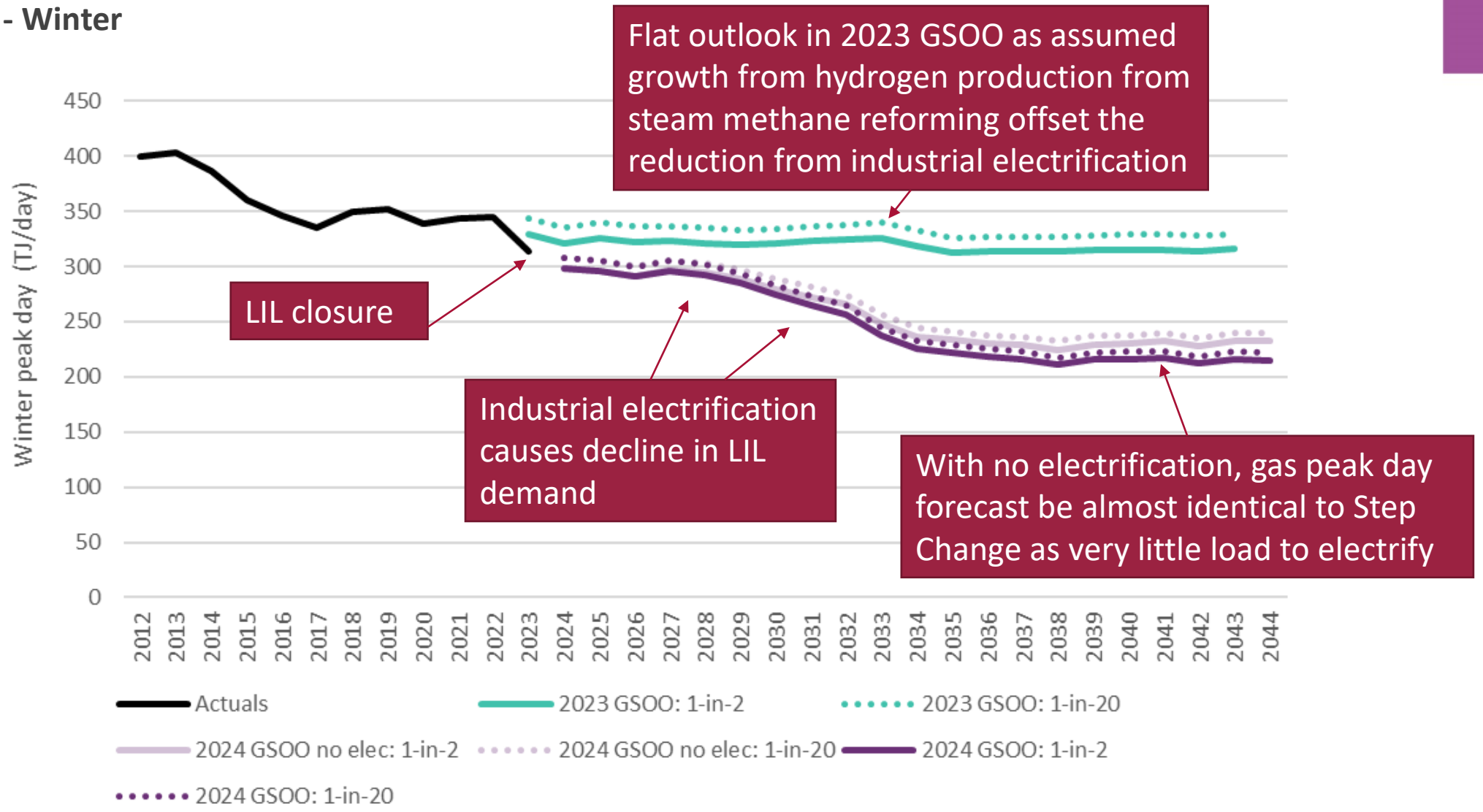
Draft peak day forecast – QLD

Step Change - Winter



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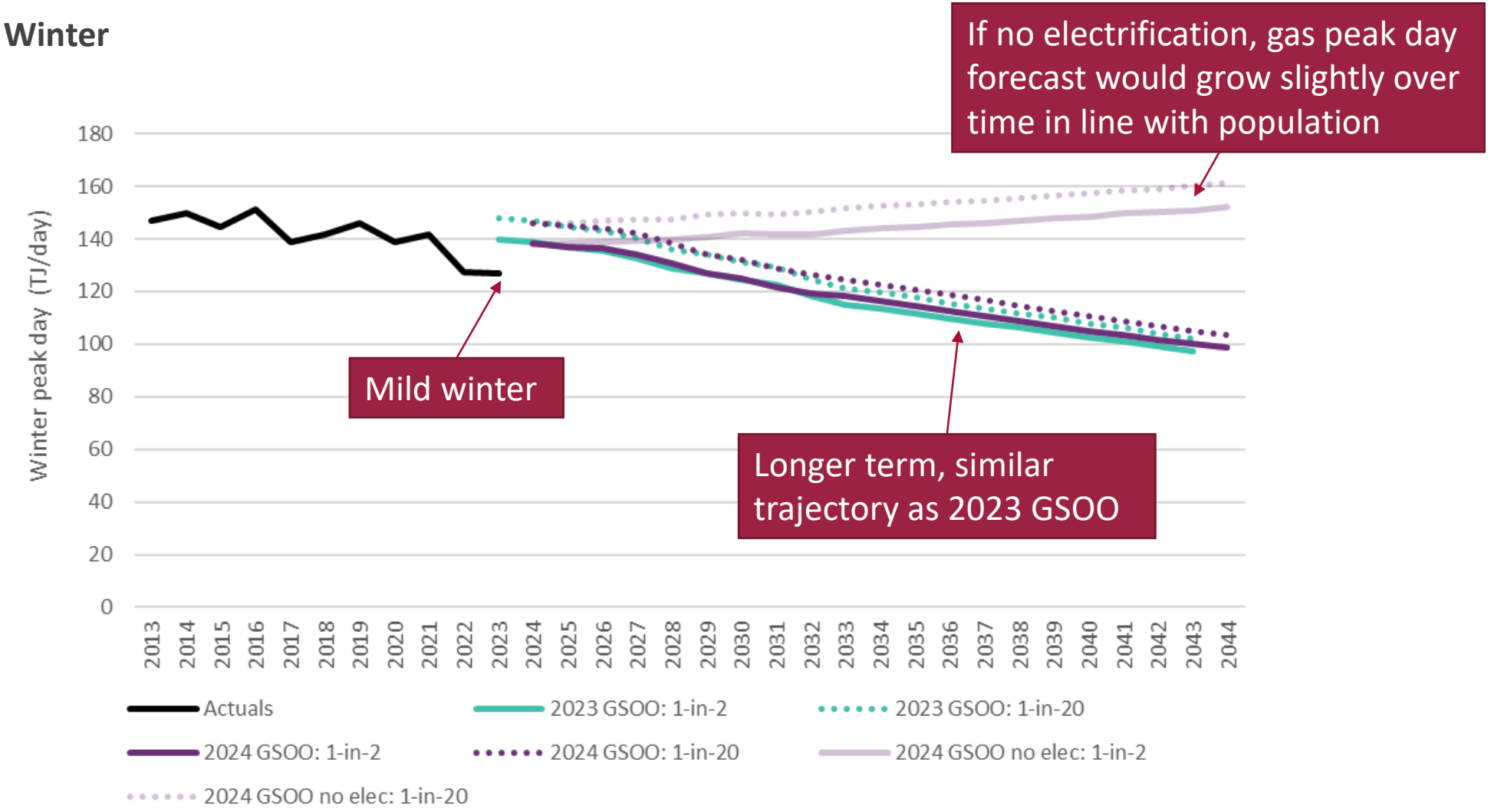
Draft peak day forecast – SA

Step Change - Winter



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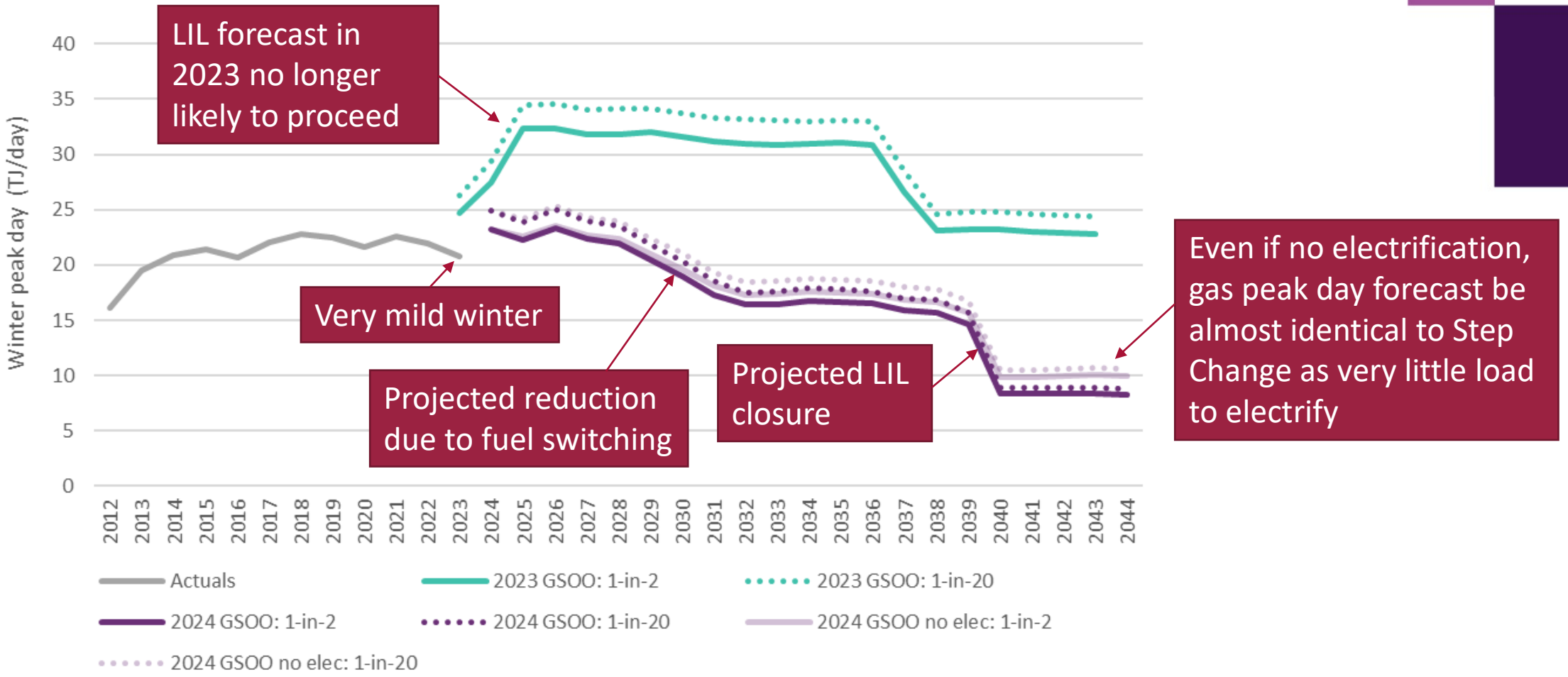
Draft peak day forecast – TAS

Step Change - Winter



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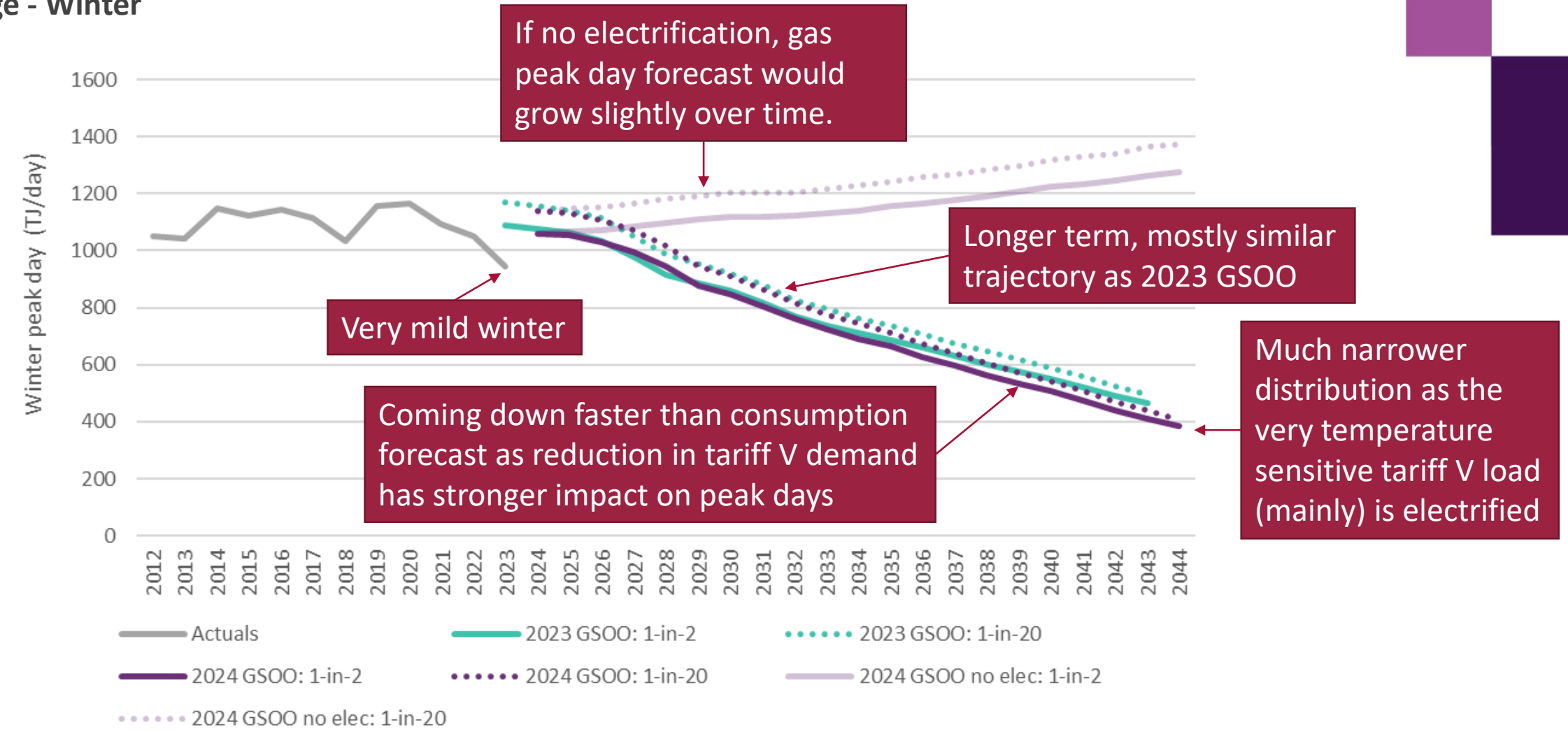
Draft peak day forecast – VIC

Step Change - Winter



Discussion

Stakeholders are asked to provide feedback to the presented draft peak day gas demand forecast, including:

- Starting points for projects
- Trajectories over the forecast horizon
- Provided reasoning for changes observed compared to 2023 GSOO

Put your questions in the chat or raise your hand to get involved in the discussion

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