

# Research note - Changes to the 2022 Final ISP

July 2022



# Executive Summary

## Key Takeaways:

- A significant number of inter- and intra-regional network augmentations have been delayed in the Final ISP compared to the Draft ISP
- Most of these network delays are only 1-2 years
- Northern QLD has seen the largest set of changes with respect to network upgrade timings

## Purpose

AEMO's Final 2022 Integrated System Plan (ISP) was published on 30<sup>th</sup> June 2022.

This short research note is an initial summary of the key changes between the Draft and the Final 2022 ISP.

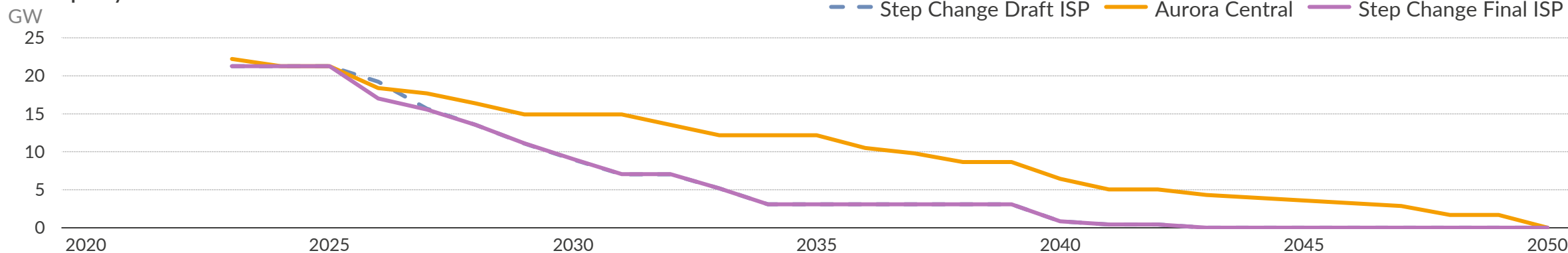
*Aurora will be incorporating all of these changes in network augmentation timings into its upcoming Q3 2022 forecast which will be released in early August.*

Key input assumptions	Updates between the Draft and Final 2022 ISP
Demand	<ul style="list-style-type: none"><li>▪ No Change</li></ul>
Coal Closures	<ul style="list-style-type: none"><li>▪ Eraring and Vales Point closures dates moved</li><li>▪ More detail in the following slides</li></ul>
Commodities	<ul style="list-style-type: none"><li>▪ No change</li></ul>
Offshore Wind	<ul style="list-style-type: none"><li>▪ Offshore wind sensitivity included with modelling the Victorian Government's Directions Paper and significant reductions in offshore wind capital costs</li><li>▪ No change in the ranking of Candidate Development Pathway occurred as a result of this sensitivity</li></ul>
Network	<ul style="list-style-type: none"><li>▪ A large number of delays (mostly 1-2 years) across the different inter- and intra-regional network augmentations</li><li>▪ More detail in the following slides</li></ul>

# The final 2022 ISP Step Change scenario sees a small change in closure dates for the Vales Point and Eraring coal plants

Coal Plants	State	Capacity GW	Coal closure timelines		
			Aurora 2022 Q3 Central	2022 Draft ISP	2022 Final ISP
Bayswater	NSW	2740	2033	2034	2034
Eraring	NSW	2880	2026	2028	2026
Liddell	NSW	1800	2024	2023	2023
Vales Point B	NSW	1320	2028	2027	2028
Mt Piper	NSW	1380	2041	2040	2040
Callide B	QLD	700	2027	2026	2026
Callide C	QLD	840	2050	2040	2040
Gladstone	QLD	1680	2036	2031	2031
Kogan Creek	QLD	744	2043	2029	2029
Millmerran	QLD	852	2050	2043	2043
Stanwell	QLD	1460	2047 <sup>1</sup>	2034	2034
Tarong	QLD	1400	2038 <sup>2</sup>	2028	2028
Tarong North	QLD	450	2038	2029	2029
Loy Yang A	VIC	2225	2040	2033	2033
Loy Yang B	VIC	1140	2048	2030	2030
Yallourn	VIC	1450	2029 <sup>3</sup>	2028	2028

Coal capacity in the NEM



1) Close one unit each year until the closure time; 2) Closes two units each year until the closure time; 3) All units close in the same year

# The final 2022 ISP includes a number of changes to network augmentation timings

Transmission Project <sup>1</sup>	AFFECTED REZs	Commissioning Year (Financial) <sup>2</sup>		Comment
		Draft 2022 ISP	Final 2022 ISP	
QNI Minor	Q8, N2	2023	2024	
Central-West Orana REZ Transmission Link	N3	2024	2026	
Project EnergyConnect	V2, N4, N5	2026	2027	
Western Renewables Link	V3	2026	2027	
South East SA REZ Expansion (Stage 1)	S1	2030	2029	
Marinus Link	V5, T1-3	2028	2030	
Facilitating power to Central Queensland (Stage 1)	Q1-Q6	2032	2034	
Far North QLD REZ Expansion	Q1	2032, 2040	2039	Removed stage 2 (2040) 345MW increase foregone
Darling Downs REZ Expansion (Stage 2)	Q8, Q1-6	2038	2040	
Mid North South Australia REZ Expansion (Option 2)	S3	2043	2042	Option 1 significantly changed
V3 – Western Victoria – Option 2	V3	2043	2042	New option added
Facilitating power to Central Queensland (Stage 2)	Q1-Q6	Split 2039, 2046	2045	
V6 – Central North Victoria – Option 5	V6	2048	2047	
Q9 Banana – Option 1	Q9	2043	Split 2045, 2049	Step change upgrade changed from Gladstone area to Wandoan area.
Q7 Wide Bay – Option 1 & 2	Q7	2046, 2048	2043, 2049	
South East SA REZ Expansion (Stage 2)	S1	2036, 2046	2049	
S2 – Riverland – Option 1	S2	2049	2050	

1) Only transmission projects listed that have had material commissioning date changes from the draft to the final 2022 ISP; 2) Commissioning year refers to the first financial year in which the project is scheduled to be operational at full capacity

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