

Agenda

01 Official address

The Hon. Mick de Brenni MP

02 State of the Network

Paul Simshauser

03 TAPR

Stewart Bell

04 Q&A

05 Morning tea

06 Breakout sessions

07 Summary

08 Closing address

State of the Network

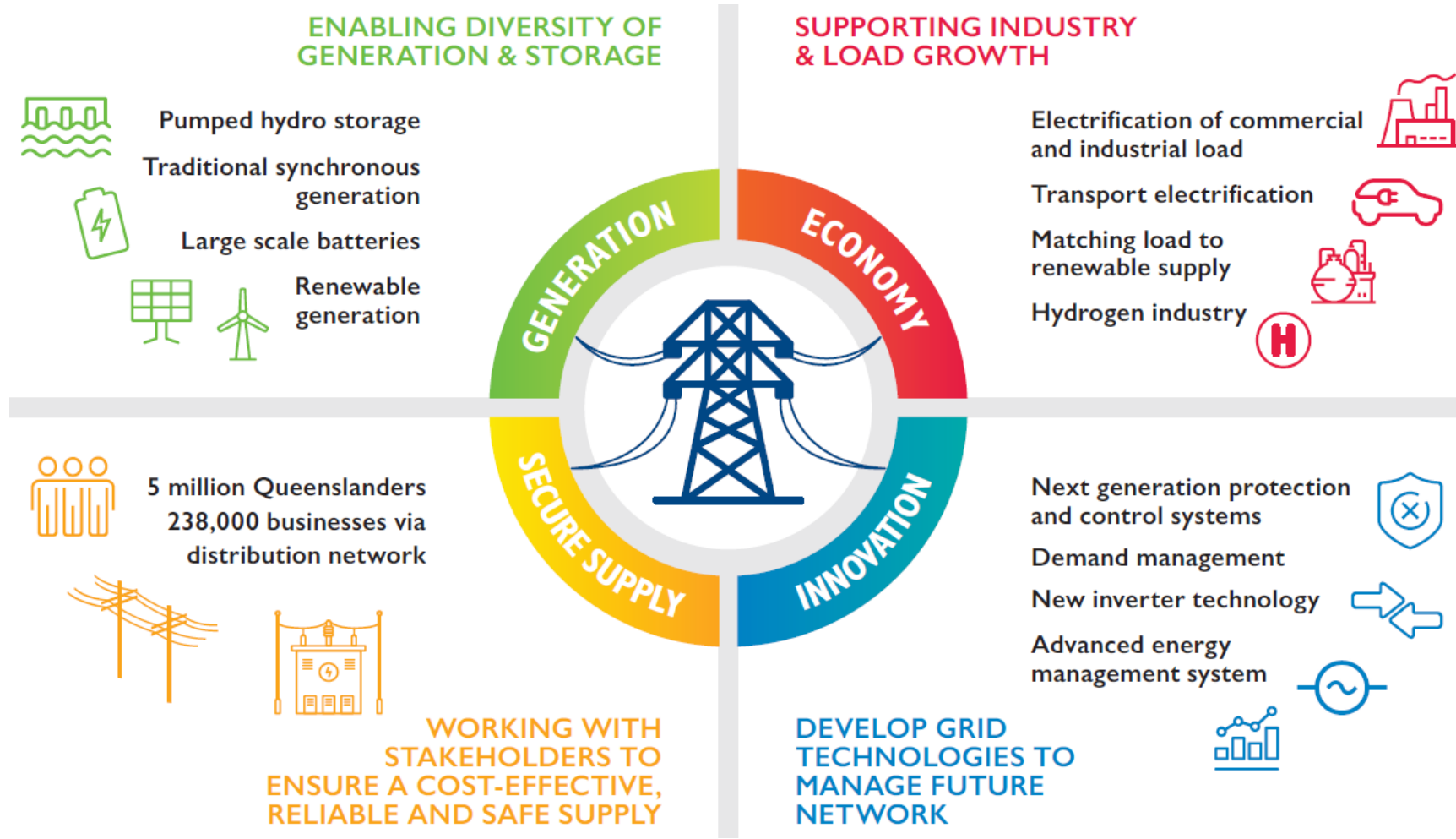
Paul Simshauser
Chief Executive

Monday 15 November 2021

Powerlink Queensland



Transmission at the centre of the power system



POWERLINK PLAYS A CENTRAL ROLE IN THE ENERGY TRANSFORMATION

Powerlink strategy

CONNECTING
QUEENSLANDERS
TO A WORLD-CLASS
ENERGY FUTURE



BE THE RENEWABLE
SUPER GRID



UNLEASH OUR
POTENTIAL



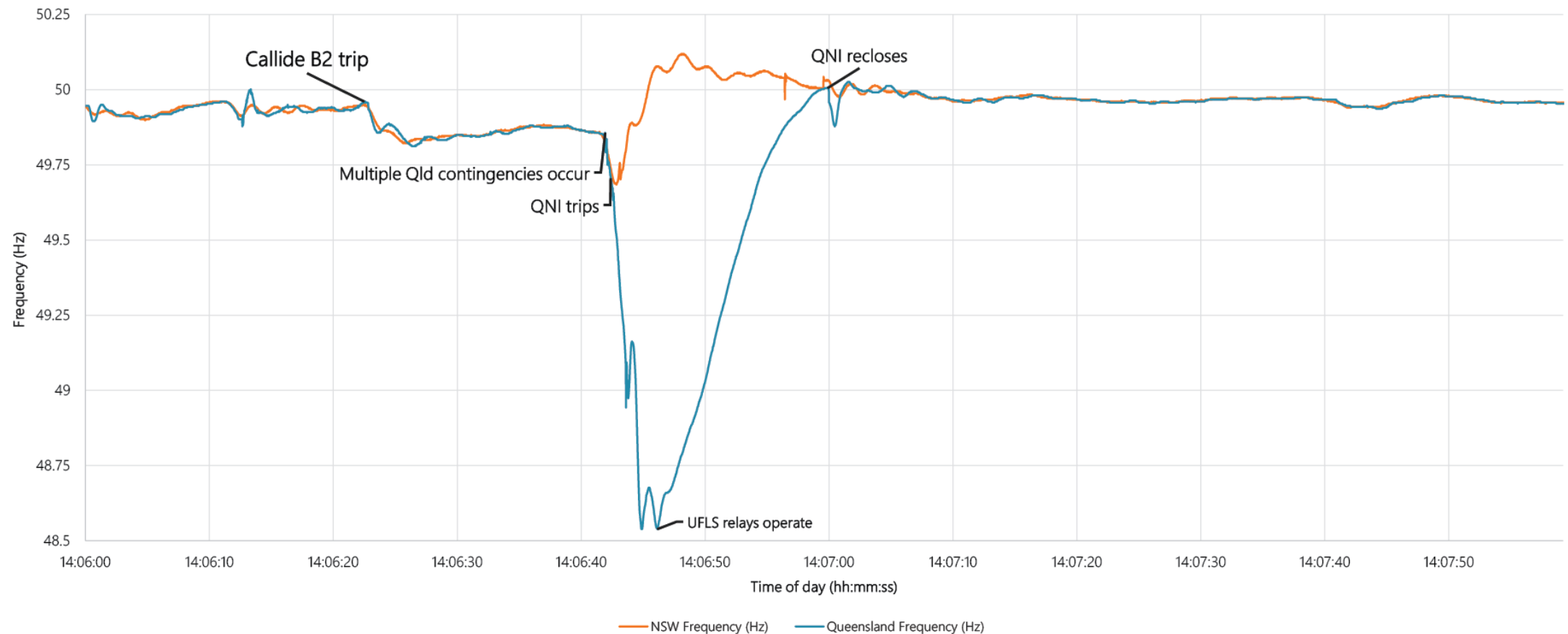
GUIDE THE
MARKET



DRIVE VALUE
FOR CUSTOMERS

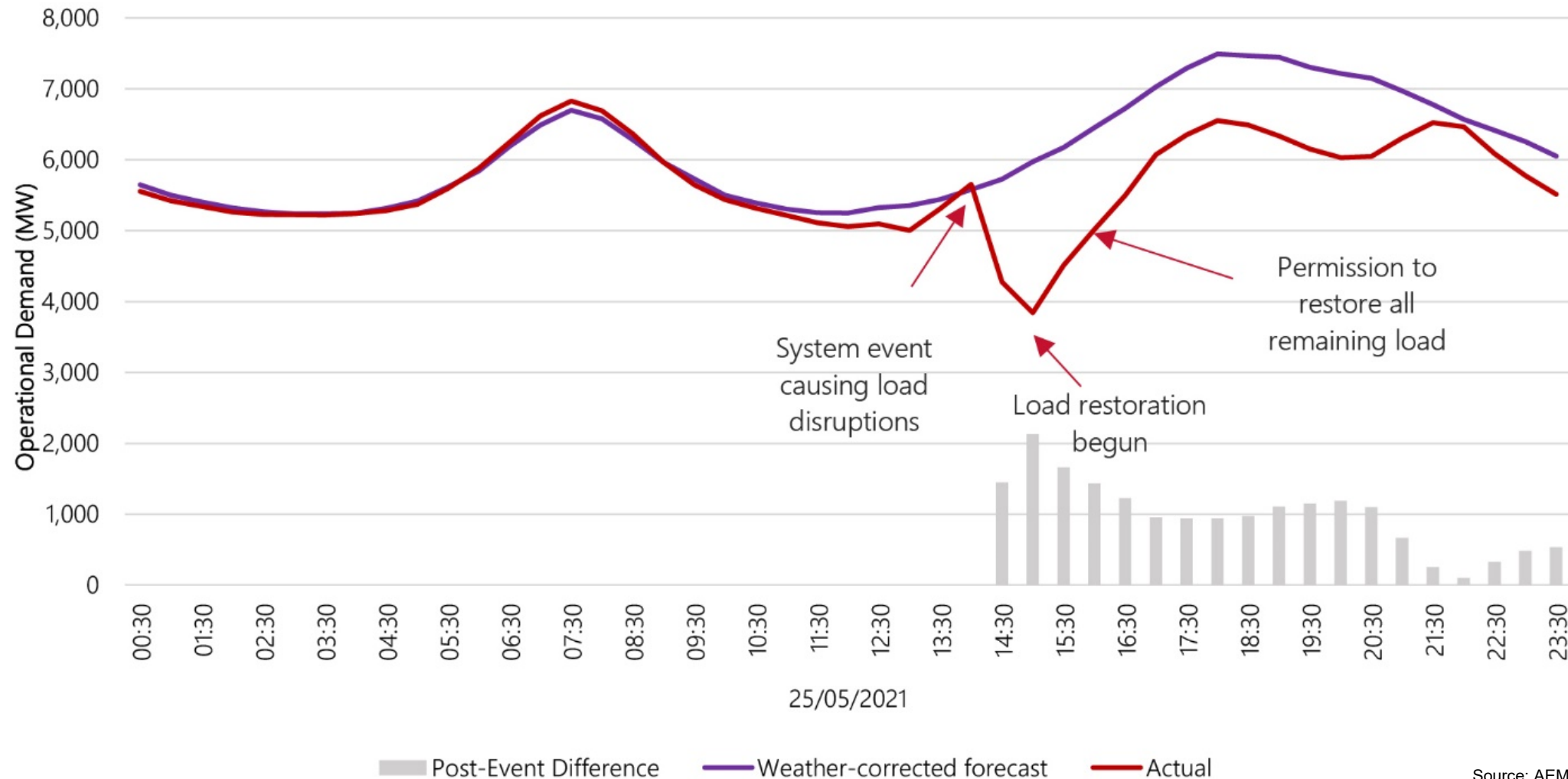
Callide outage – 25 May

Queensland and New South Wales Interconnector frequency during multiple contingencies



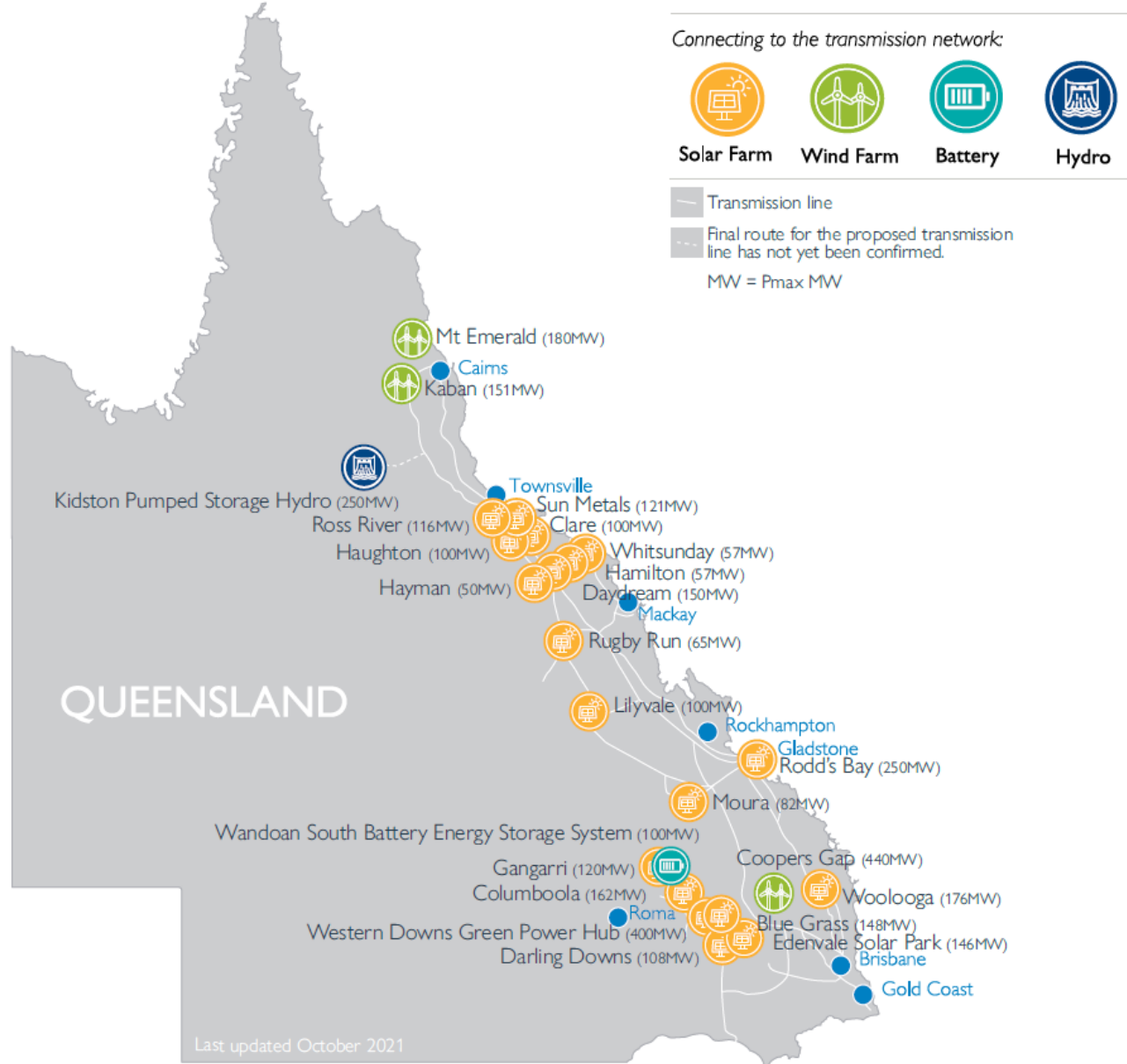
Callide outage – 25 May

Operational demand reductions estimations



Transmission connections

- **Connected 24 renewable projects** with combined maximum output of approximately 3,600MW
- As at September 2021, **23 renewable project applications are being processed** representing approximately 6,700MW of generation
 - Wind – 4,400MW
 - Solar – 2,000MW
 - Battery – 300MW



Major project update

- **Genex Kidston Connection Project**

- building around 186km of 275kV transmission line, including 340 transmission towers.
- Local supplier briefing conducted in conjunction with UGL

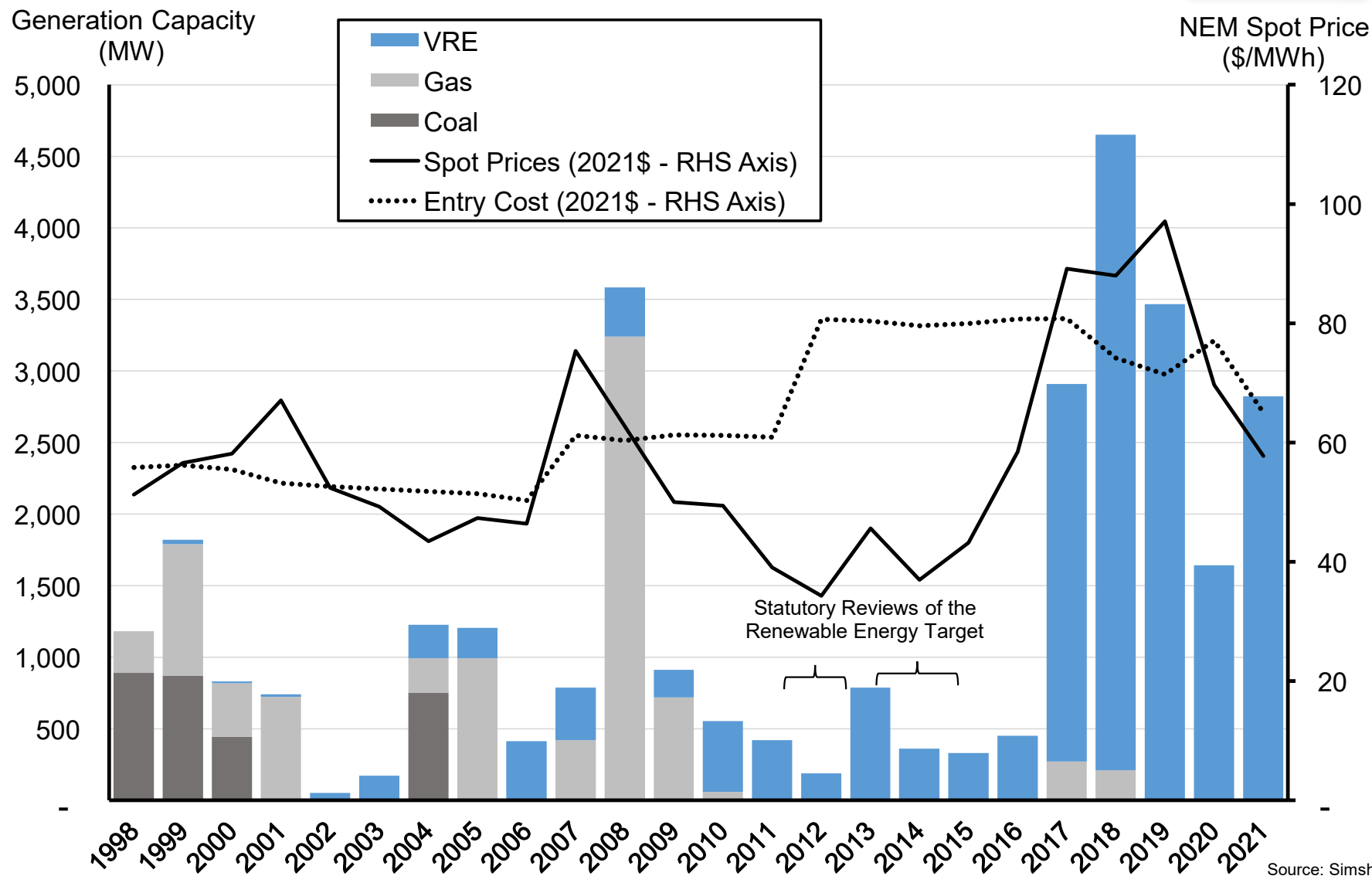
- **Wandoan South Battery Energy Storage System (BESS)**

- Queensland first large-scale battery owned by Vena Energy
- Powerlink component of works completed
- lithium ion battery will have a capacity of 100MW and store 150MWh of energy, which could power up to 57,000 homes

- **Borumba Pumped Storage Hydro**

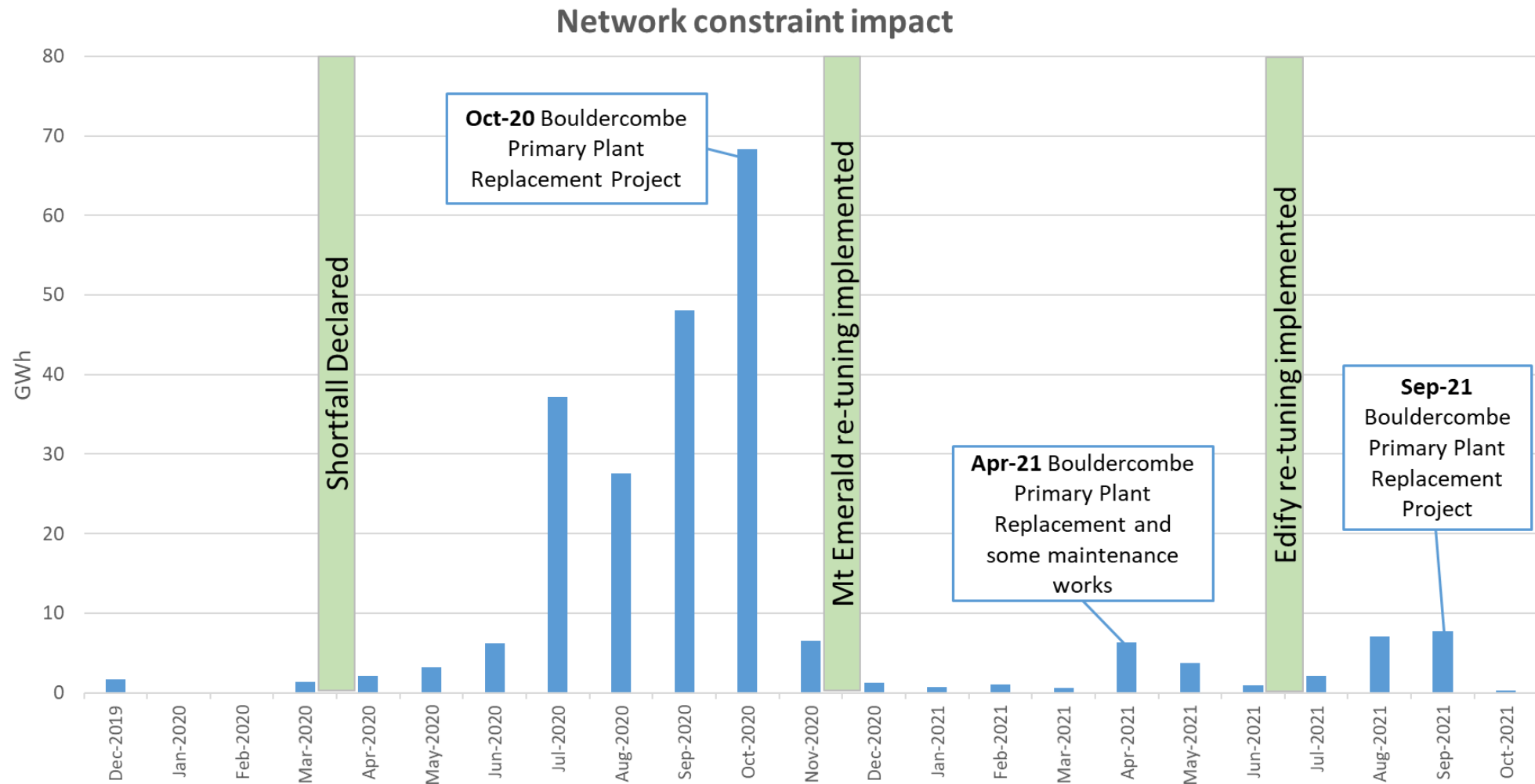
- Queensland Government and Powerlink undertaking Detailed Analytical Assessment over two years to determine the site's suitability for a pumped hydro facility.

NEM supply-side dynamics



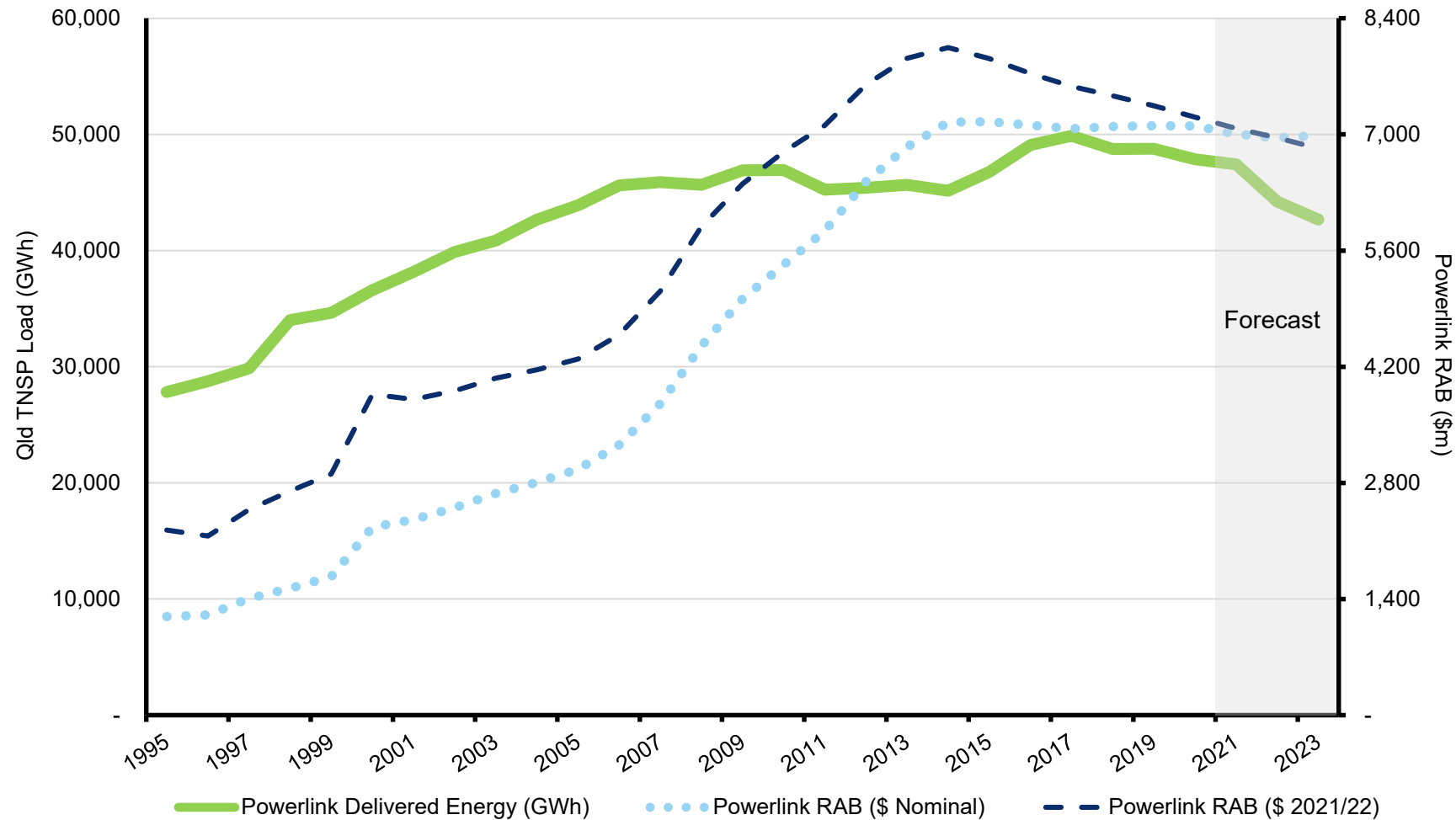
Source: Simshauser & Gilmore (2022)

Retuning inverters

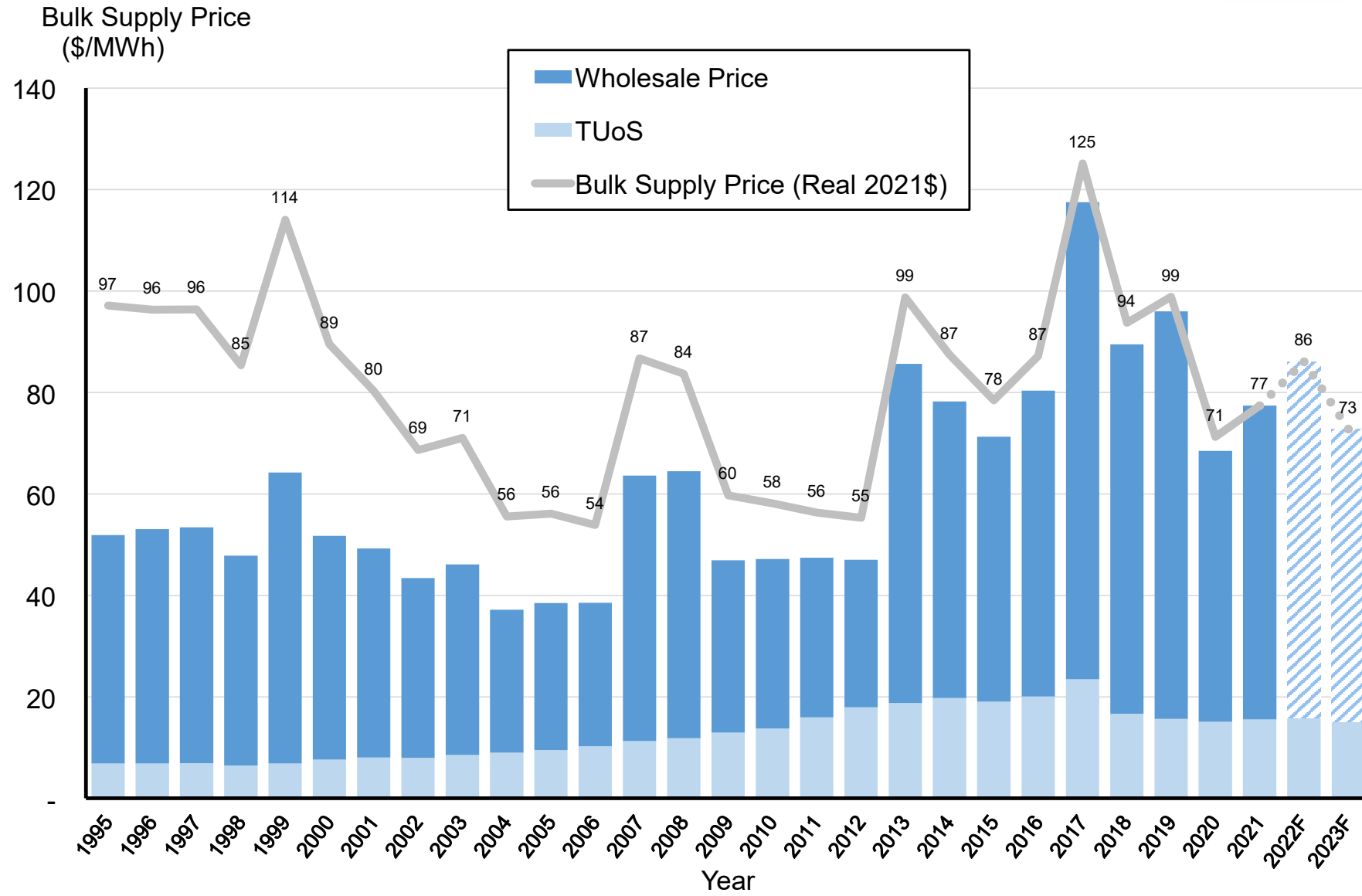


Regulatory Asset Base

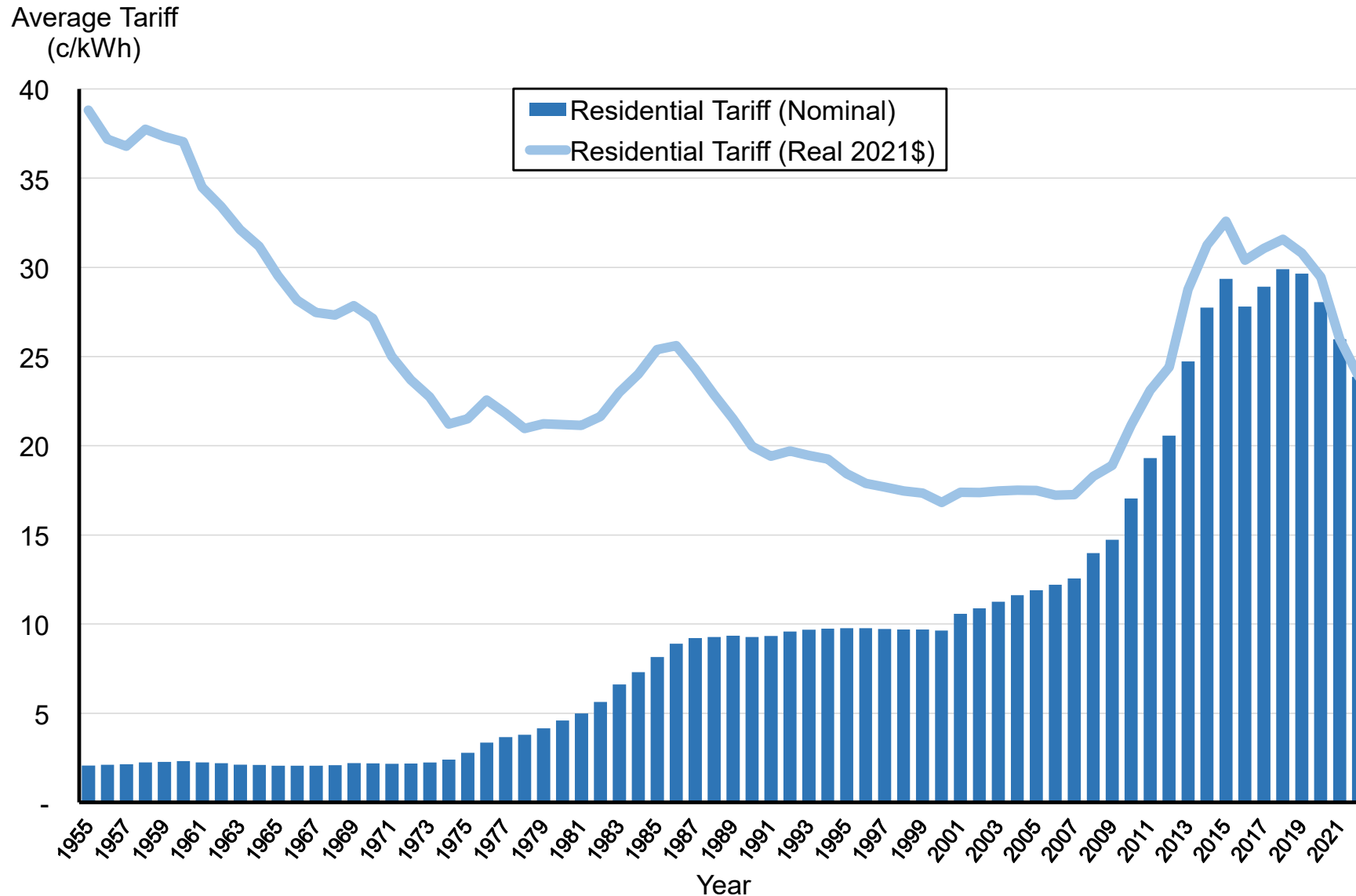
Powerlink forecast delivered energy (GWh) versus RAB



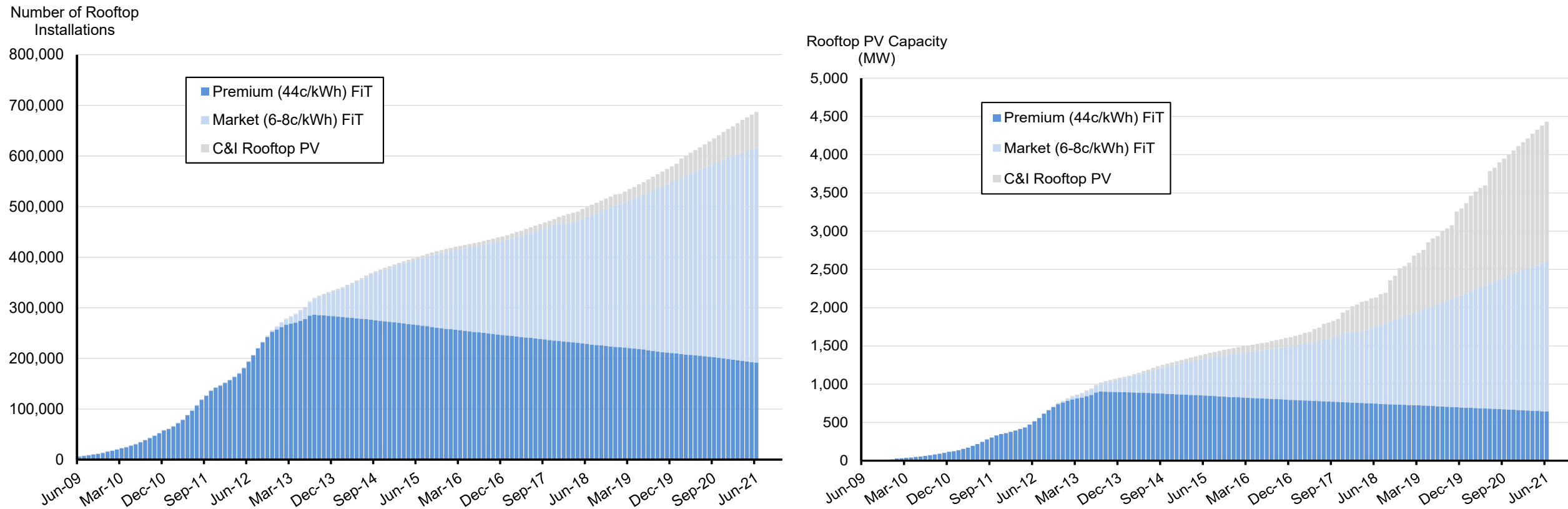
Queensland bulk supply price (1995-2023F)



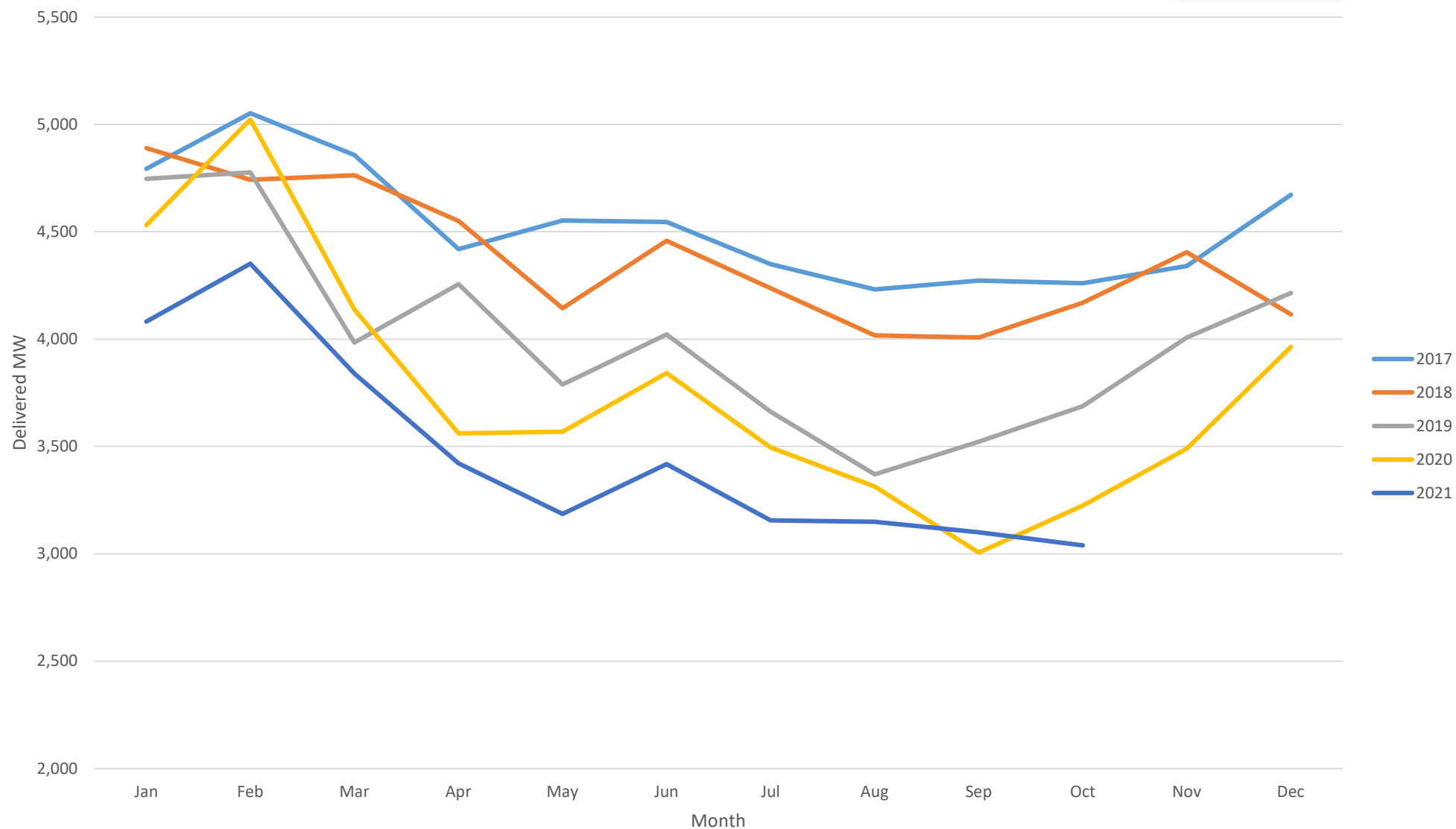
Queensland residential tariffs (1955-2022)



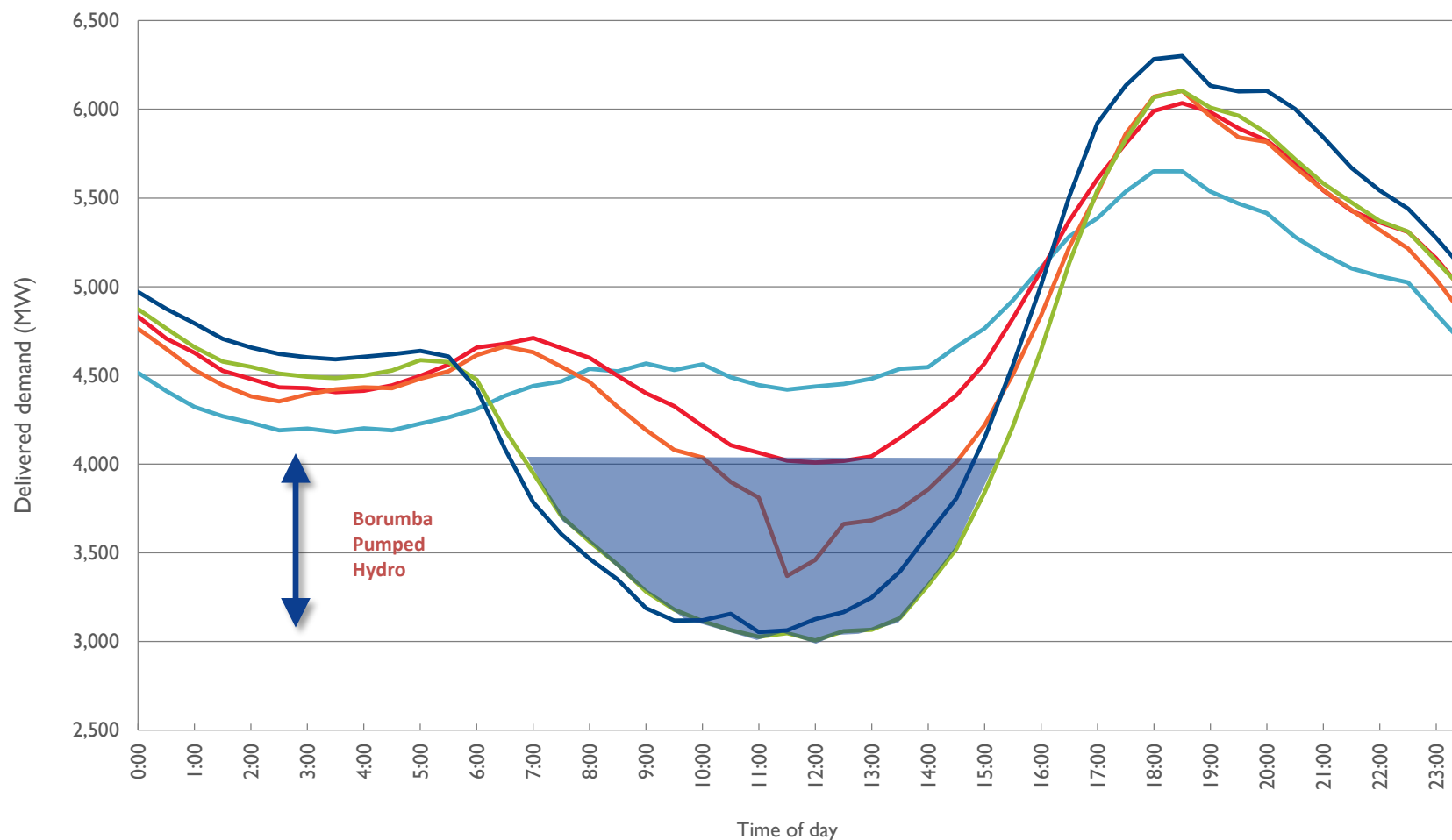
The solar effect



Queensland minimum demand (MW)

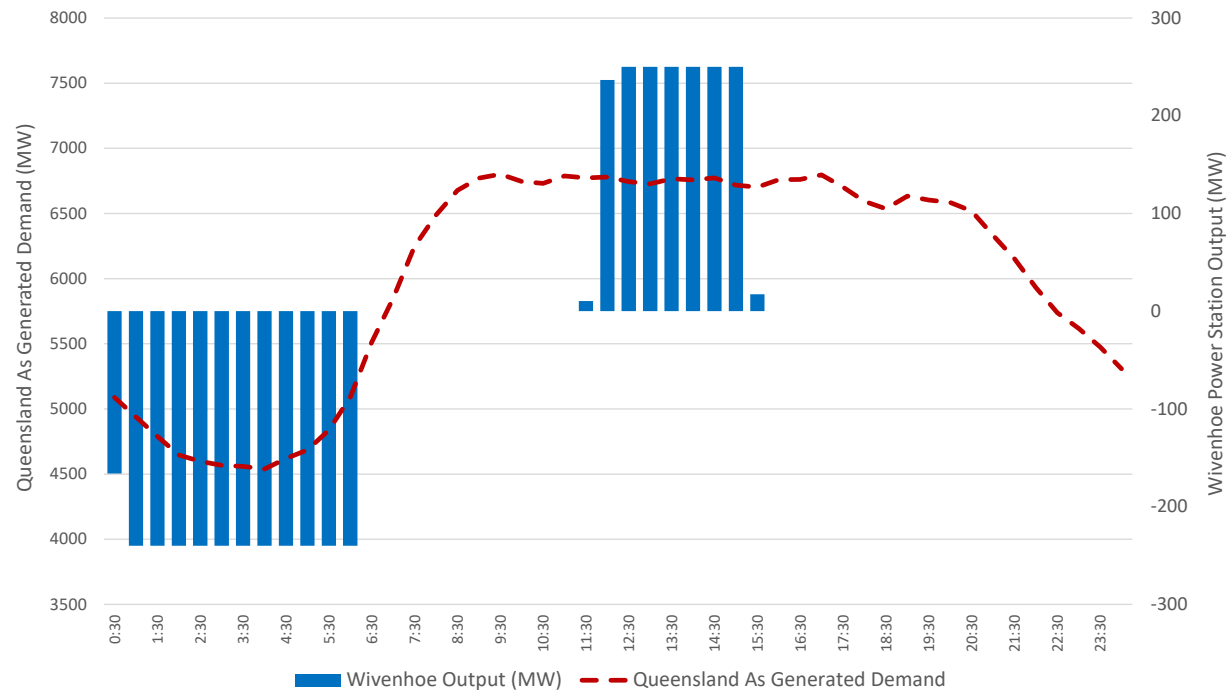


Required energy offsets



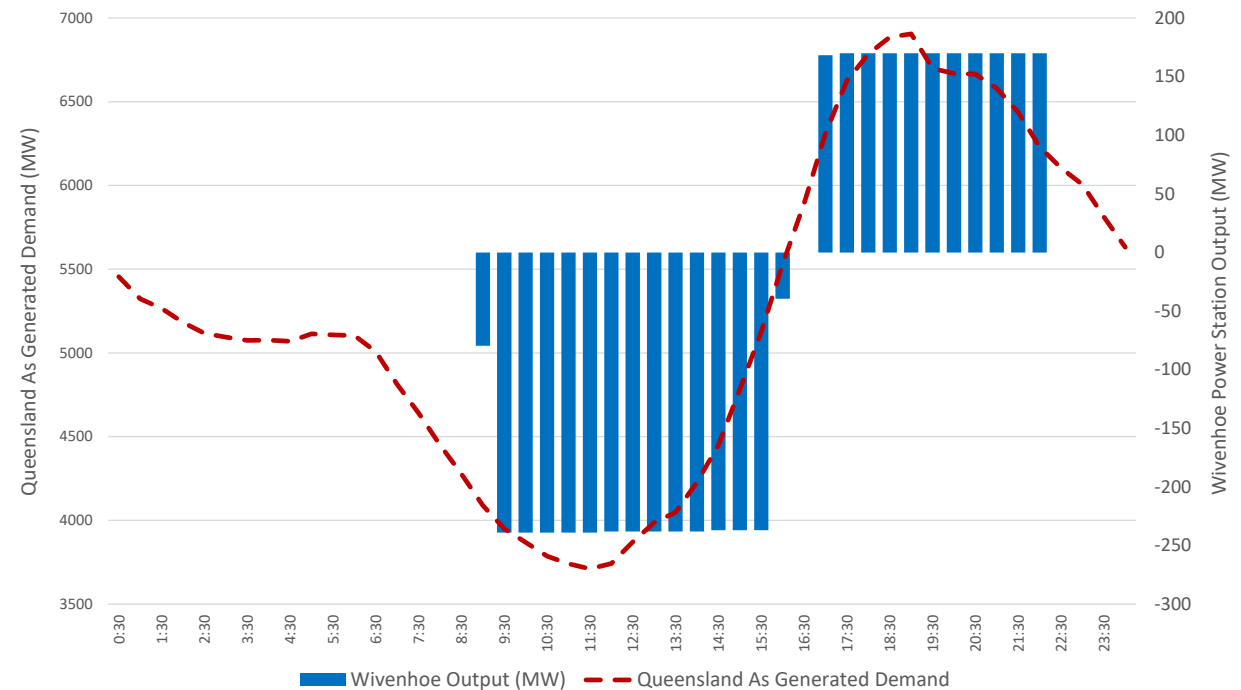
Impact on pumped hydro storage

2010 Wivenhoe Typical Summer Day









Snapshot for 1 December 2010. Note Queensland As Gen Demand > QLD Delivered from the Grid Demand.

2021 Wivenhoe Typical Spring Day



Snapshot for 3 October 2021 (ie: day with lowest day time minimum demand)..

2023-27 Revenue Proposal update

	 Capital Expenditure	 Operating Expenditure	 Rate of Return	 Regulatory Asset Base	 Maximum Allowed Revenue	 Electricity prices
Revenue Proposal	\$863.9m	\$1,046.4m	4.44%	\$6,958.4m	\$3,333.9m	11% decrease
Draft Decision	\$863.9m	\$1,046.4m	4.65%	\$6,983.4m	\$3,414.9m	9% decrease
Revised Revenue Proposal	\$882.4m	\$1,071.4m	4.65%	\$7,140.4m	\$3,427.6m	5% decrease

Consumer engagement Award



The Energy Charter initiatives

Customer Voice @ Board Level


Resource for Company Directors
June 2021



Energy Charter
Disclosure Statement
2020/21




Community engagement focus



Community Engagement Strategy

July 2021

Connecting Queenslanders to a world-class energy future



A message from the Chief Executive

With the sheer breadth of change that comes with the new energy future here in Queensland, meeting the needs and expectations of the communities we work in is more important than ever. We have always held a strong view that engaging with local communities is an important part of providing our electricity transmission services safely, reliably and cost effectively. This is front and centre as we look at the challenges and opportunities of the future.

Our infrastructure stays in service for up to 50 years, and partnering with all of our host communities from Cairns down to the New South Wales border is important to building relationships based on respect and trust. Most importantly, we are focusing on partnering that delivers local community benefits for the longer term.







This strategy outlines our community engagement planning approach and the principles we will live up to – from operating and maintaining our existing network, through to planning and building the network of the future. We know some of the goals we've set for ourselves here are aspirational, and will involve hard work and focus. We're up for the challenge with your help and guidance.


We are keen to see communities sharing in the benefits of our state's new energy future, and we know building strong, positive relationships across the life of our transmission network will set us all up for future success. It's an exciting time to be in energy, and bringing opportunities to the local communities we work in is a huge part of that.

We look forward to working with you.


Paul Simshauser
Chief Executive - Powerlink Queensland

Who we are

 5million Providing electricity to the million Queenslanders	 147 Substations in the network
 15,345 Gross length of transmission lines	 1,700km Transmission network from north of Cairns to the New South Wales border
 9% Transmission services = 9% of typical residential bill	 238,000 Supporting economic growth to businesses



Landholder & Community Better Practice Engagement Guide



theenergycharter.com.au