15 November 2024

2024 Transmission Network Forum





#PQForum

Powerlink acknowledges the Traditional Owners and their custodianship of the lands and waters of Queensland and in particular the lands on which we operate.

We pay our respect to their Ancestors, Elders and knowledge holders and recognise their deep history and ongoing connection to Country.



15 November 2024

2024 Transmission Network Forum





#PQForum

Agenda

State of the Network with Paul Simshauser, Chief Executive

AEMO Update with Merryn York, Executive General Manager System Design

Q&A with Paul and Merryn

BREAK

Decarbonising Central Queensland with Daniel Andersen, General Manager Energy Markets

Panel moderated by Jacqui Bridge, Executive General Manager Energy Futures

Interactive session

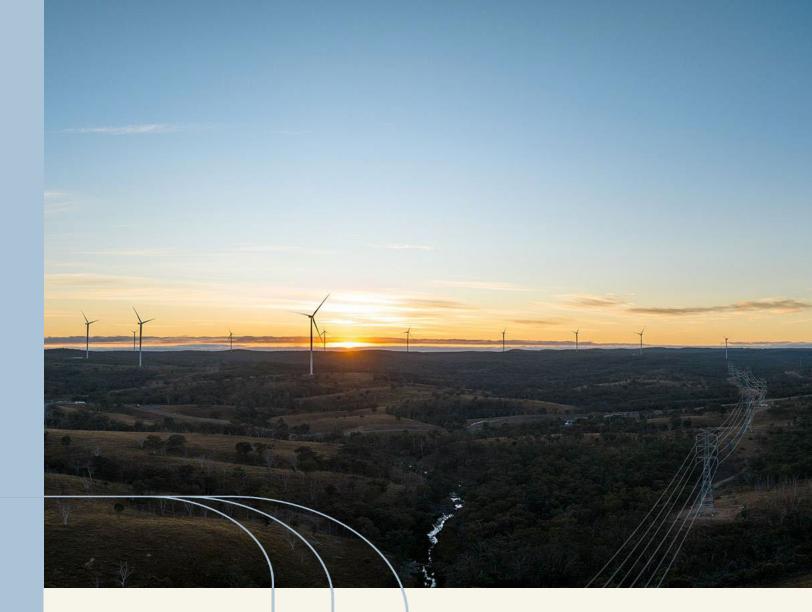
BREAK

Transmission Annual Planning Report update with Stewart Bell, Executive General Manager Network and Business Development, followed by Q&A

2024 Transmission Network Forum

State of the Network

Paul Simshauser Chief Executive Powerlink Queensland





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State of the Network

Stages of the energy transition

Investment outlook

Stakeholder and community insights

Responding to the market

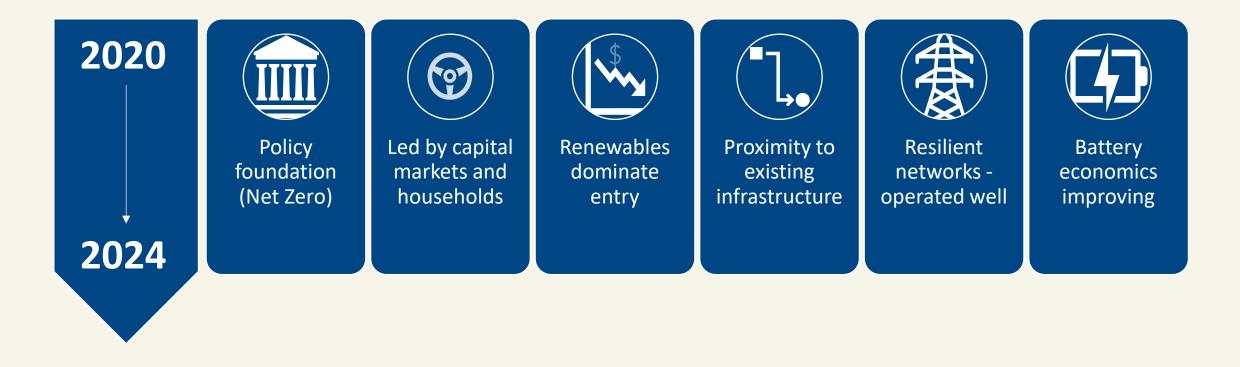
Renewable Energy Zones

Minimum system load

Innovation

2024 Transmission Network Forum

First stage of the energy transition



Entering the second stage of the energy transition



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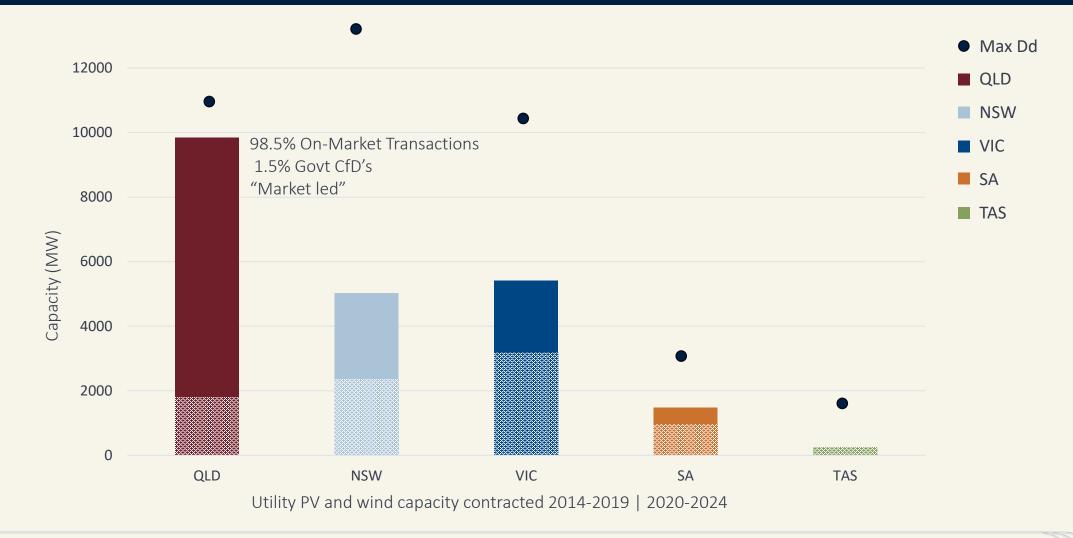
I + PS = MW*

Market led Investment + Policy Settings = MW*

*Subject to community, innovation, prices



Market led



Queensland connections

44 renewable and storage projects operational or under construction with combined maximum output of 8,950MW

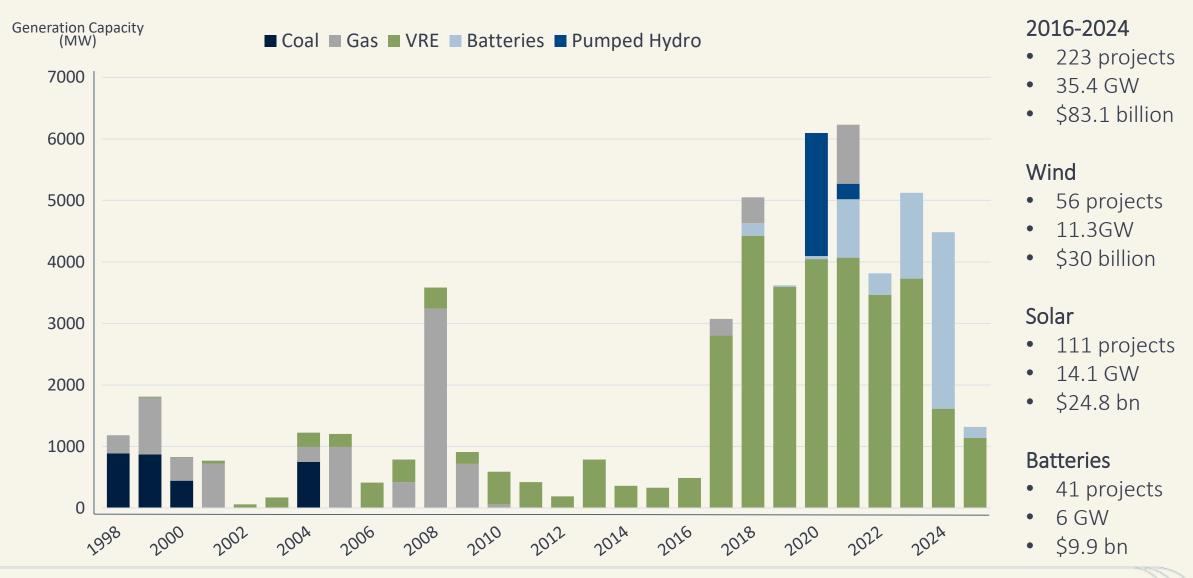
As at October 2024, 71 renewable applications being processed representing ~29,381MW

Projects at the enquiry stage (including early engagements) with combined max output of ~103GW



2024 Transmission Network Forum

NEM investment commitments 1998-2024



Queensland forward pipeline



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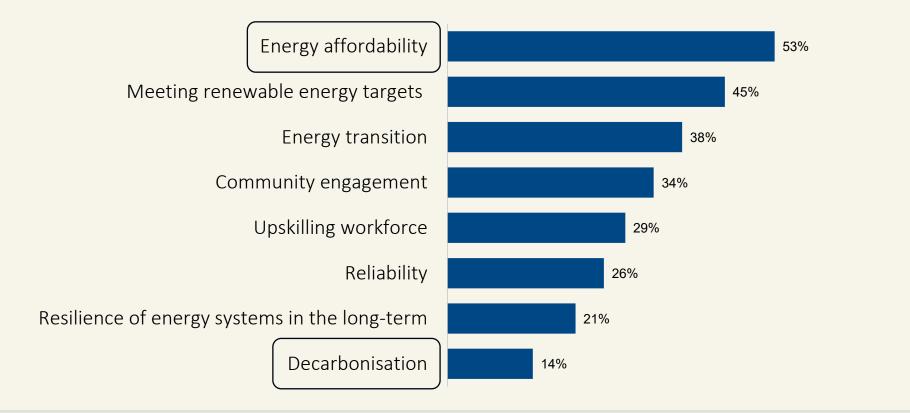
Stakeholder perception research - Key themes

Stakeholders identified many key themes in the industry that they expected Powerlink to play a role in addressing.



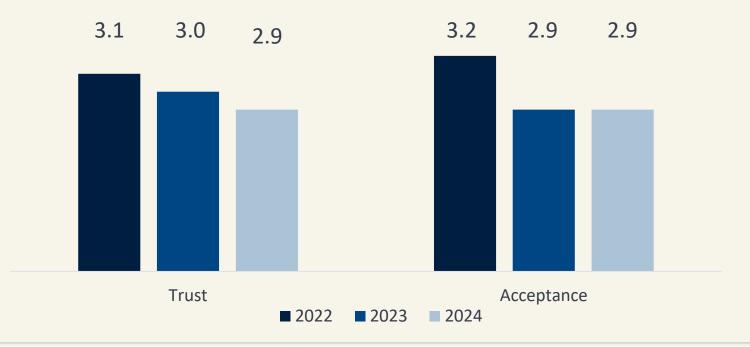
Stakeholder perception research - Key themes

Thinking about the next 5 years, which of the following issues do you think will present the biggest challenge to the energy industry?

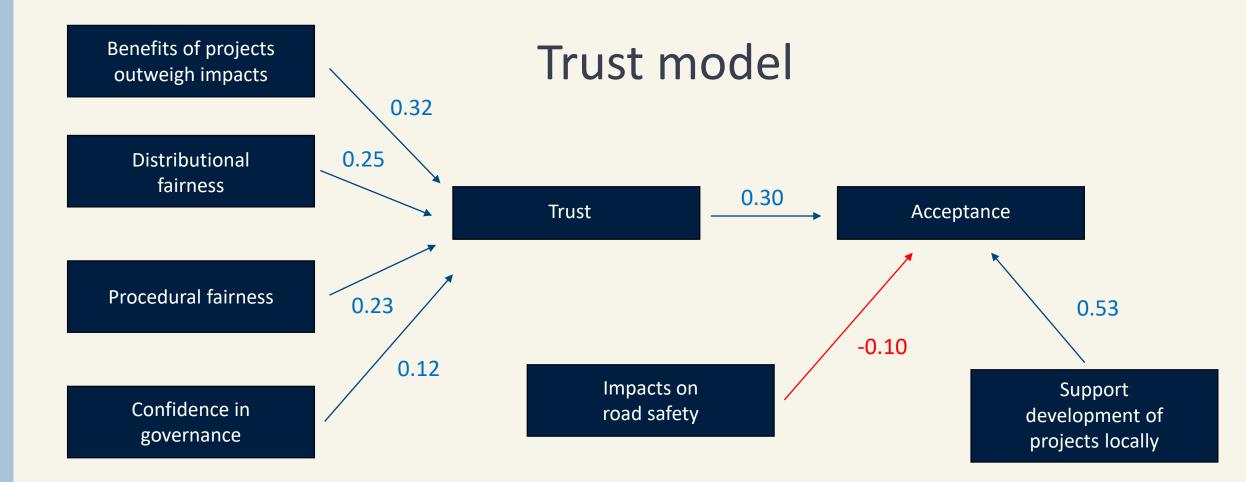


Voconiq community insights research

Community trust and acceptance has slightly reduced overall – but larger variations at individual LGA level



Trust, local community and clean energy



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Renewable Energy Zones

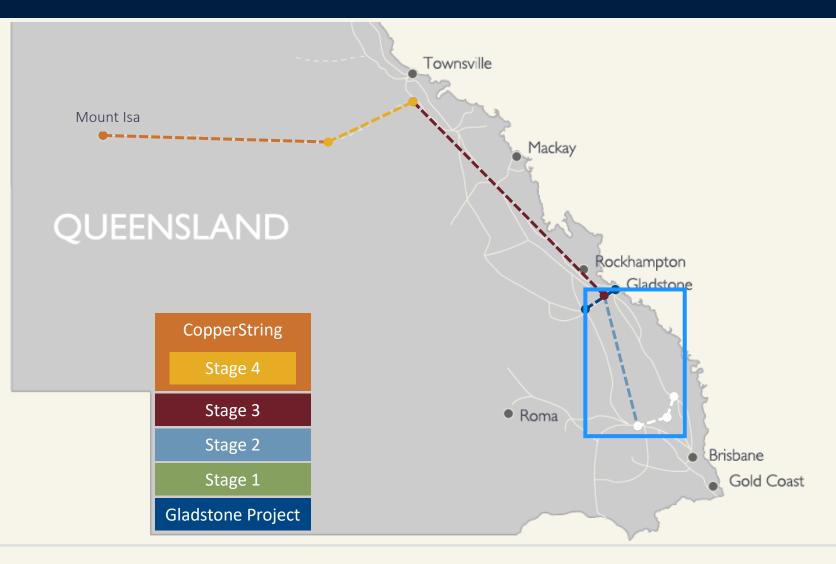
Minimum system load

Innovation

Queensland transmission backbone – September 2022



Queensland transmission backbone – November 2024



State of the Network

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Minimum system load

Innovation

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Renewable Energy Zones

9

9

Renewable Energy Zones – In-flight

- Far North Queensland (energised) ullet
- Southern Downs (energised) ullet
- Western Downs (energised*) ۲



Renewable Energy Zones - Planning

- Callide REZ ۲
- Calliope REZ ۲
- Darling Downs REZ •



Renewable Energy Zones

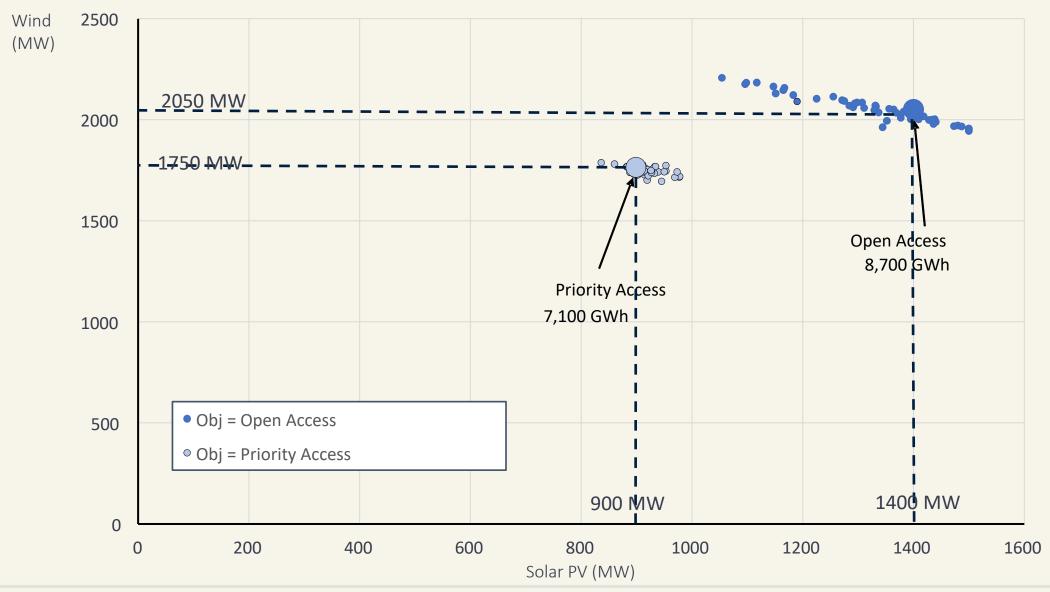
	FAR NORTH	SOUTHERN	WESTERN
	QUEENSLAND	DOWNS	DOWNS
Network capacity	~500MW	~ 2,000MW	~1,800MW
Contracted capacity	152MW	890MW	500MW
Application	September	December	January
date	2019	2020	2021
Energisation	October	December	November
date	2022	2023	2024
Cycle time	3.2 years	3.0 years	3.7 years

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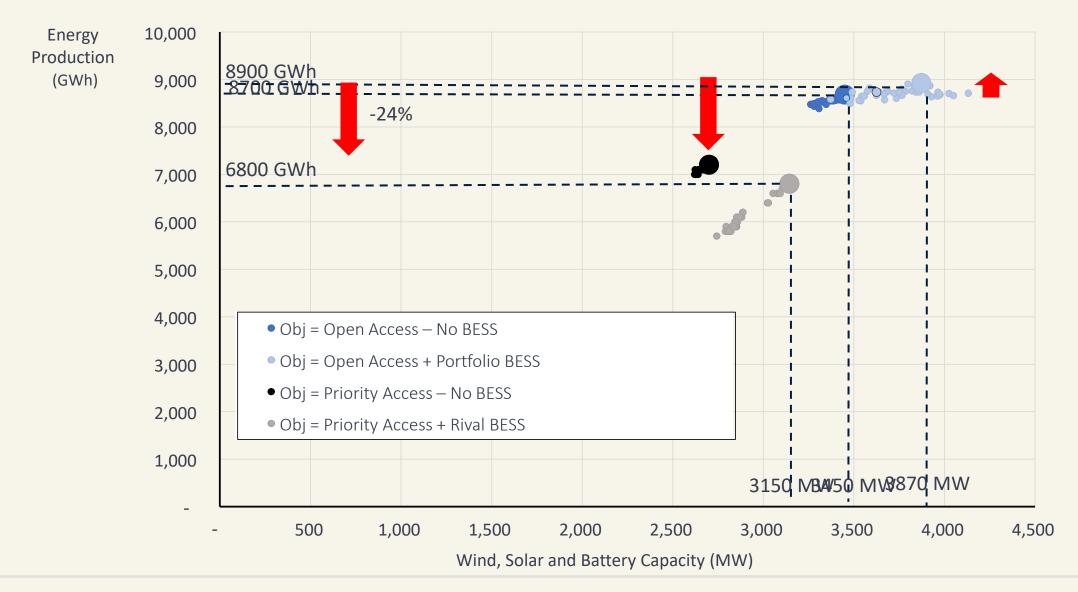
Renewable Energy Zone (REZ) developer insights



REZ Open Access v Priority Access (275kV REZ)



REZ Access: Impact of Batteries (275kV REZ)



State of the Network

Stages of the energy transition

Investment outlook

Stakeholder and community insights

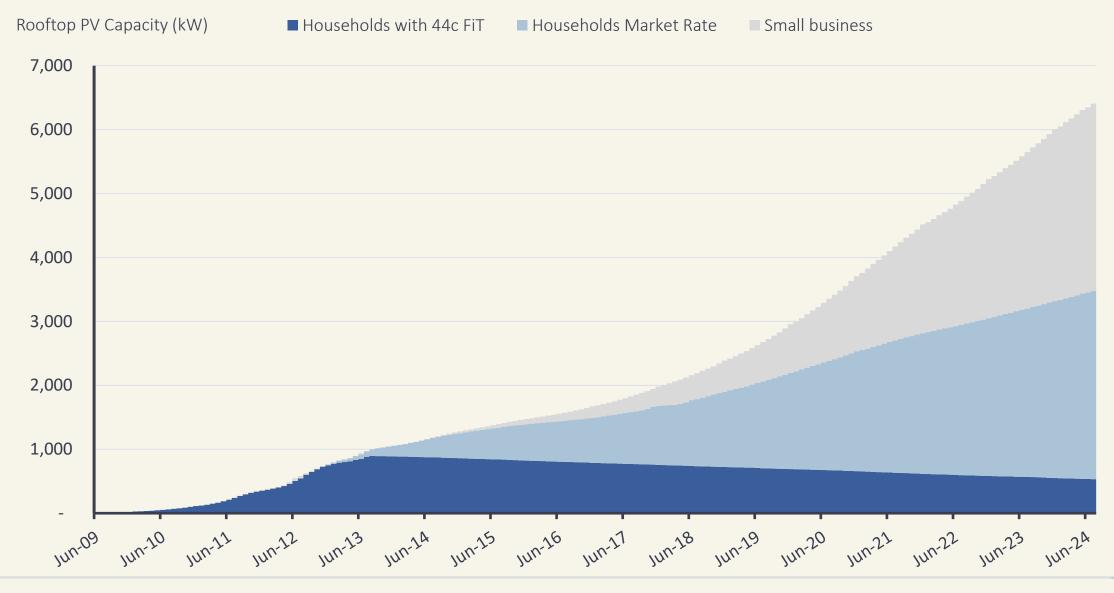
Responding to the market

Renewable Energy Zones

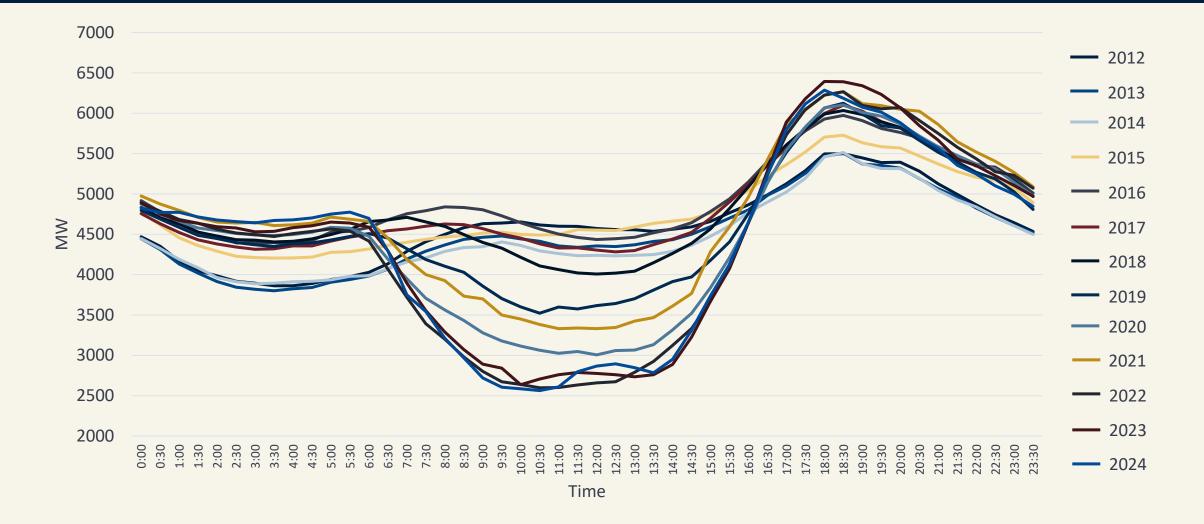
Minimum system load

Innovation

Queensland rooftop solar PV – 51.3% take-up rate

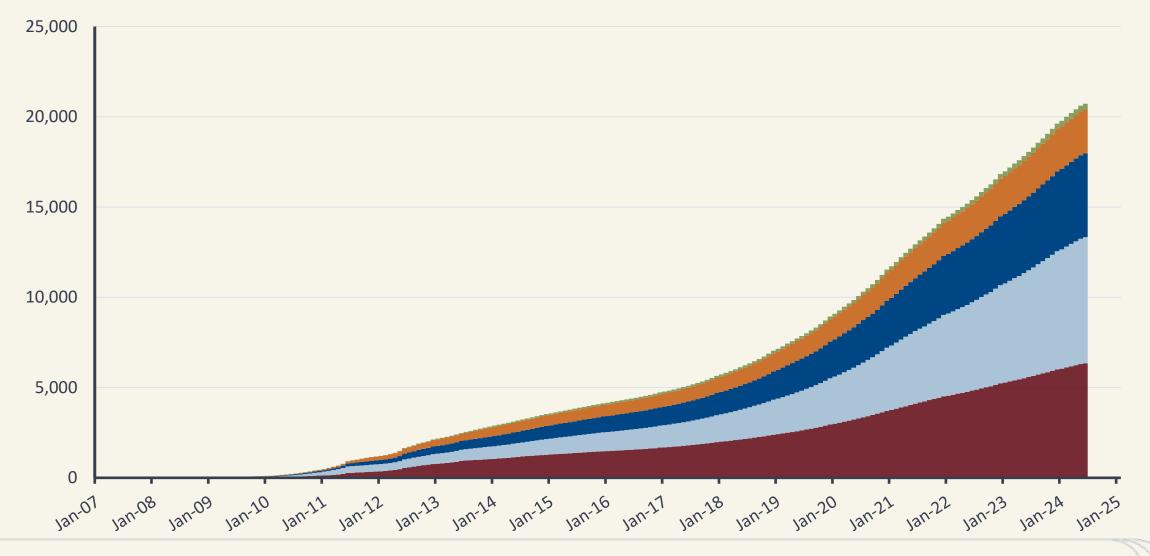


September minimum demand profile



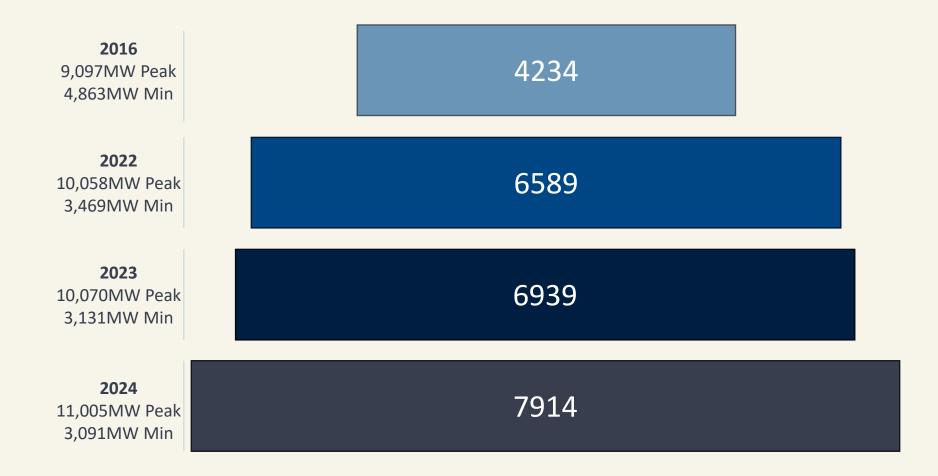
Qld can't export its way out of this... NEM Rooftop PV

■ QLD ■ NSW ■ VIC ■ SA ■ Tas



Rooftop PV Capacity (MW)

Increasing operational envelope of network



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Minimum system load

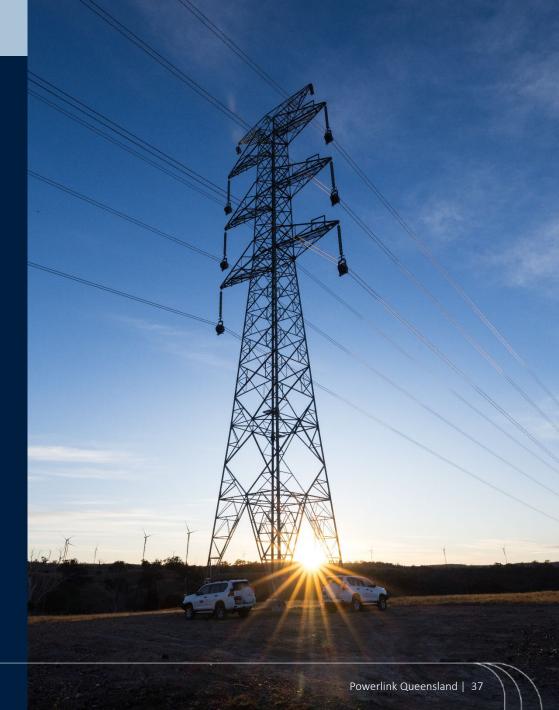
Innovation



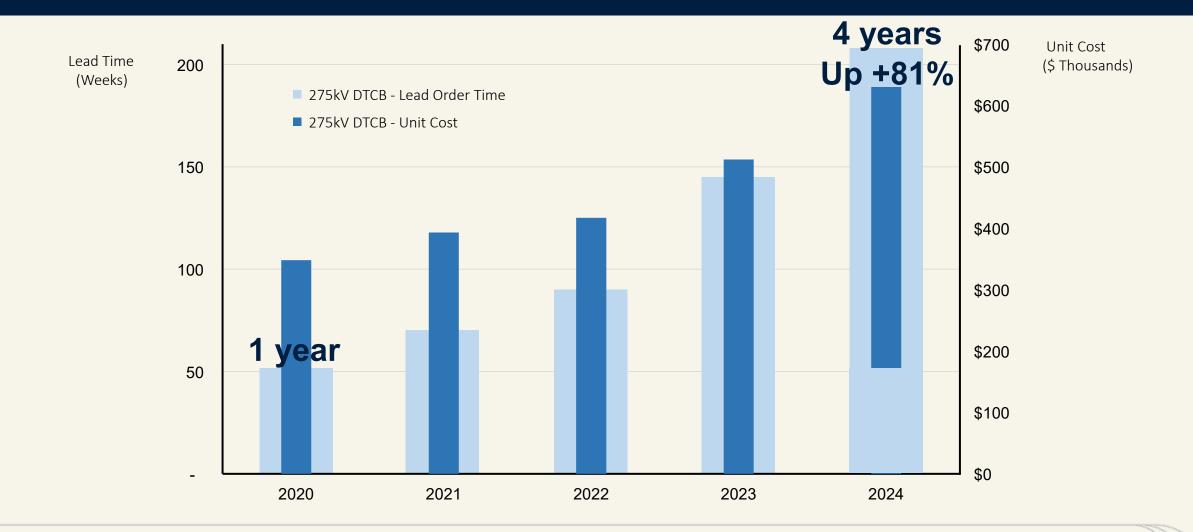
Powerlink's innovation journey

Over the years there has been some extraordinary pieces of work that have now become business as usual for the benefit of our network, our connected customers and Queenslanders.





275kV DT circuit breakers



I + PS = MW*

Market led investment + Policy settings = MW*

*Subject to community, innovation, prices

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SA.

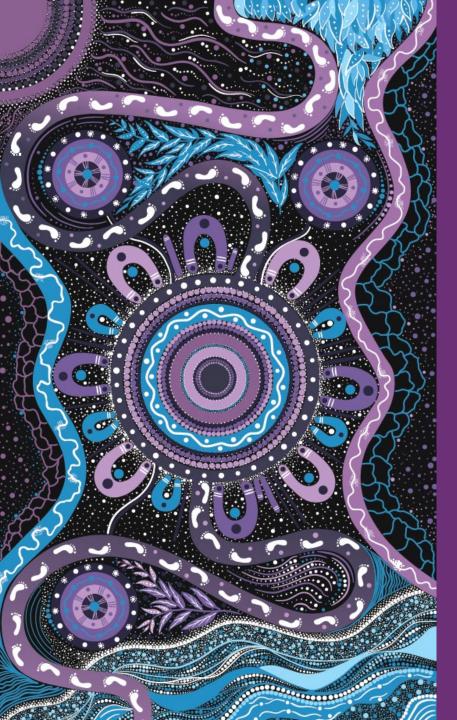
2024 Powerlink Queensland Transmission Network Forum

AEMO Update

Merryn York

Australian Energy Market Operator

November 2024



We acknowledge the Traditional Custodians of the land, seas and waters across Australia. We honour the wisdom of Aboriginal and Torres Strait Islander Elders past and present and embrace future generations.

We acknowledge that, wherever we work, we do so on Aboriginal and Torres Strait Islander lands. We pay respect to the world's oldest continuing culture and First Nations peoples' deep and continuing connection to Country; and hope that our work can benefit both people and Country.

'Journey of unity: AEMO's Reconciliation Path' by Lani Balzan

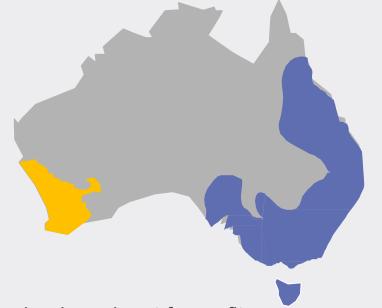
AEMO Group is proud to have delivered its first Reconciliation Action Plan in May 2024. '*Journey* of unity: AEMO's Reconciliation Path' was created by Wiradjuri artist Lani Balzan to visually narrate our ongoing journey towards reconciliation – a collaborative endeavour that honours First Nations cultures, fosters mutual understanding, and paves the way for a brighter, more inclusive future.





AEMO at a glance

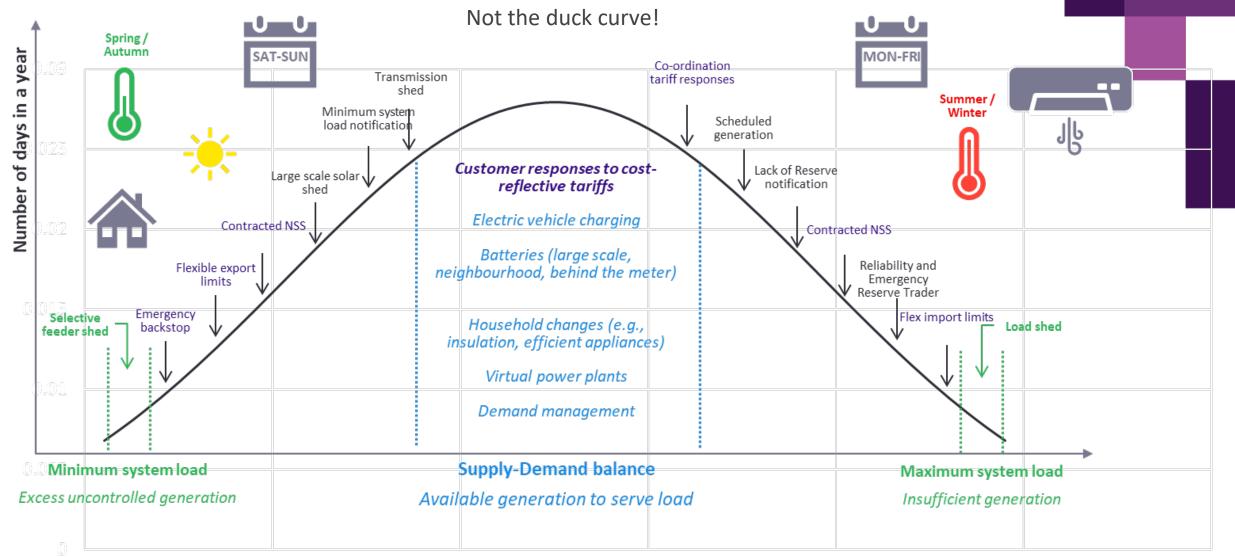
Our operating footprint



- Member-based, not-for-profit.
- 60% government, 40% industry members.
- Activities directed by National Electricity and Gas Law and Rules, jurisdictional laws and regulations.
- Funded primarily by participant fees, some funding from governments for specific activities.
- ~1500 people working around the country.

								_^``
	WA	SA	VIC	NSW & ACT	QLD	TAS	NT	
OPERATE ENERGY SYSTEMS AND MARKETS								
ELECTRICITY								
NATIONAL ELECTRICITY MARKET		٠	٠	٠	•	•		
WHOLESALE ELECTRICITY MARKET	٠							
GAS								
DAY AHEAD AUCTION		•		٠	•			
DECLARED WHOLESALE GAS MARKET				٠				
GAS SUPPLY HUB		٠			٠			
GAS BULLETIN BOARDS	٠	•	٠	٠	•	•	•	
GAS RETAIL MARKETS	٠	٠	٠	٠	٠			
SHORT-TERM TRADING MARKET		•		٠	٠			
PLAN AND ENABLE FUTURE ENERGY SYSTEMS	٠	٠	٠	•	•	•		
SUPPORT NEW INVESTMENT	٠	٠	٠	•	٠	٠		,

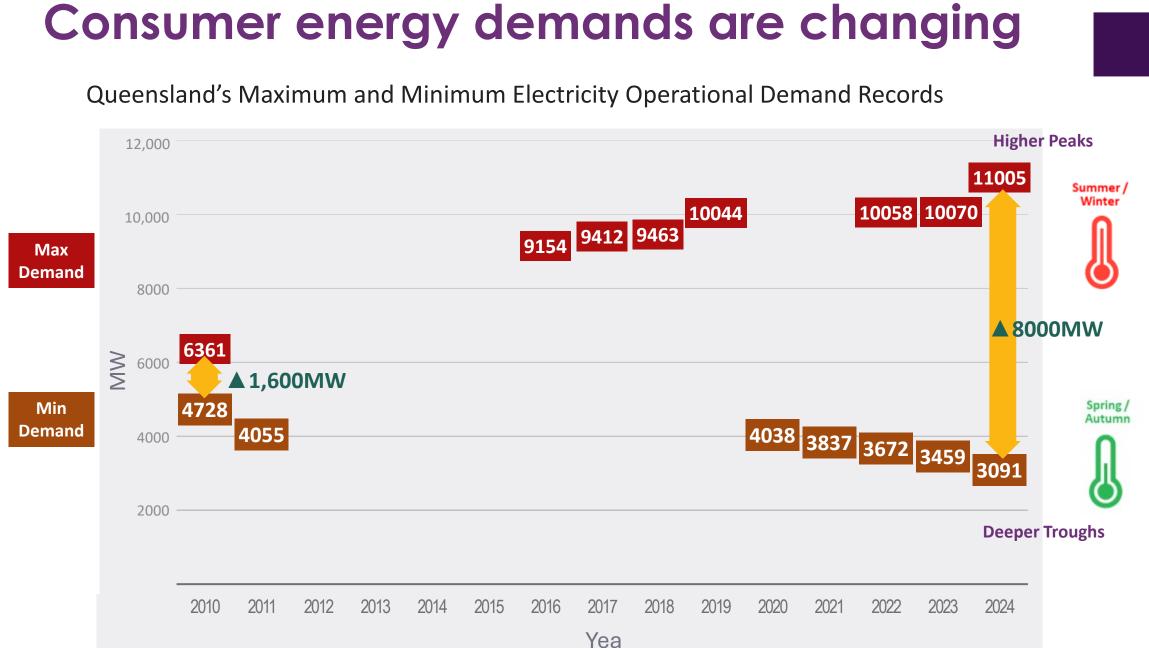
Managing varying system load conditions



Source: Adapted from a Victorian Government figure in the consultation paper for Victoria's emergency backstop mechanism for rooftop solar. Victorian Government. 2023, Victoria's Emergency Backstop Mechanism: Consultation paper, p 10. <u>https://engage.vic.gov.au/victorias-emergency-backstop backstop mechanism-for-rooftop-solar</u>

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AEMO



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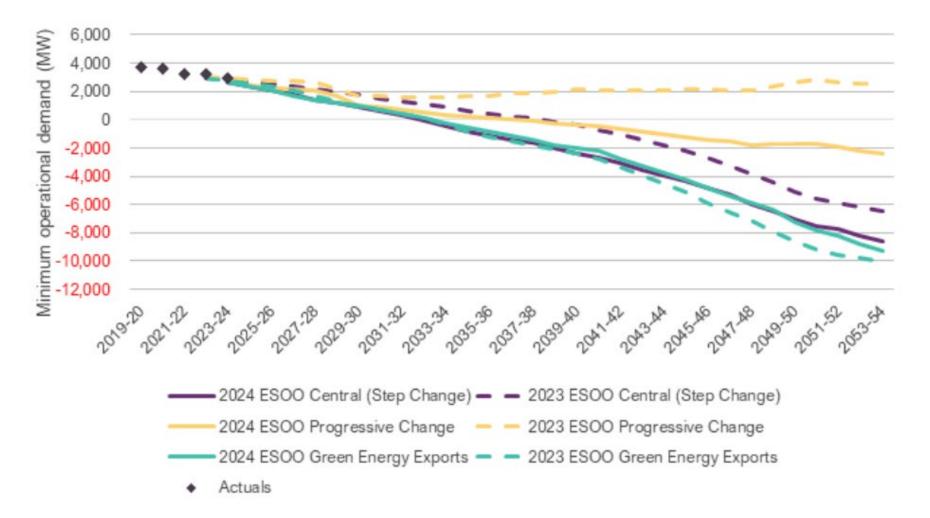
45

AEMO



Qld minimum demand forecast

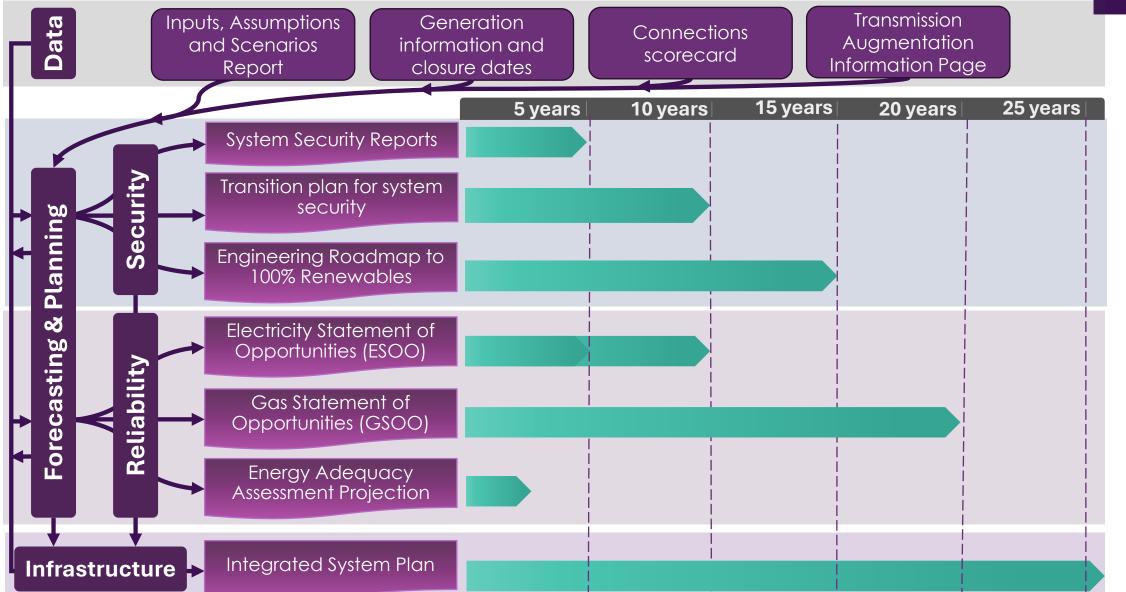
Actual and forecast Queensland 50% POE minimum operational (sent-out) demand, 2024 ESOO all scenarios and 2023 ESOO all scenarios, 2019-20 to 2053-54 (MW)



AEMO is planning on many fronts across varying time horizons.







Engineering Roadmap – FY25 priorities

FY25 Priority Actions fall broadly in three focus areas and build on previous actions from FY2024

AEM

Engineering Roadmap

connected power system in Queensland, New South Wales Australian Capital Territory, Victoria, South Australia and Taymonia



Priority focus area

Delivering foundational transition enablers

Collaborating closely with stakeholders to establish critical foundations for the future power system, defining roles and responsibilities for new technical matters, and establishing effective systems and processes for future system operation.

Workstreams

DER governance

Ensuring appropriate enduring accountability across industry to meet ongoing technical requirements as DER capacity growth continues rapidly with increasing penetration of DPV, small-scale batteries, and

Operational DER integration

3 Actively managing and monitoring issues emerging in operational timeframes (now – 2 years ahead) as the NEM experiences world leading levels of DER.

Providing long-range investment visibility

Identifying future power system needs that may require investment from one or more parties and providing clarity on the capability of different technologies to meet these needs.

Future power system phenomena

Exploring new behaviours and system phenomena as the configuration of the power system changes, with inverter-based resources as an increasingly prevalent portion of the generation mix.

6

New technology capabilities

Enabling new technologies to be integrated into the power system, by completing required desktop investigations and real-world demonstrations.

Progressing operational readiness

Maintaining power system security in realtime operation under unprecedented penetration of variable, inverter-based, and distributed resources.

Real Time Operations (RTO) and operations support

Uplifting the capability of AEMO's real-time operations (RTO) and supporting functions to adapt to the needs of a high renewables power system.

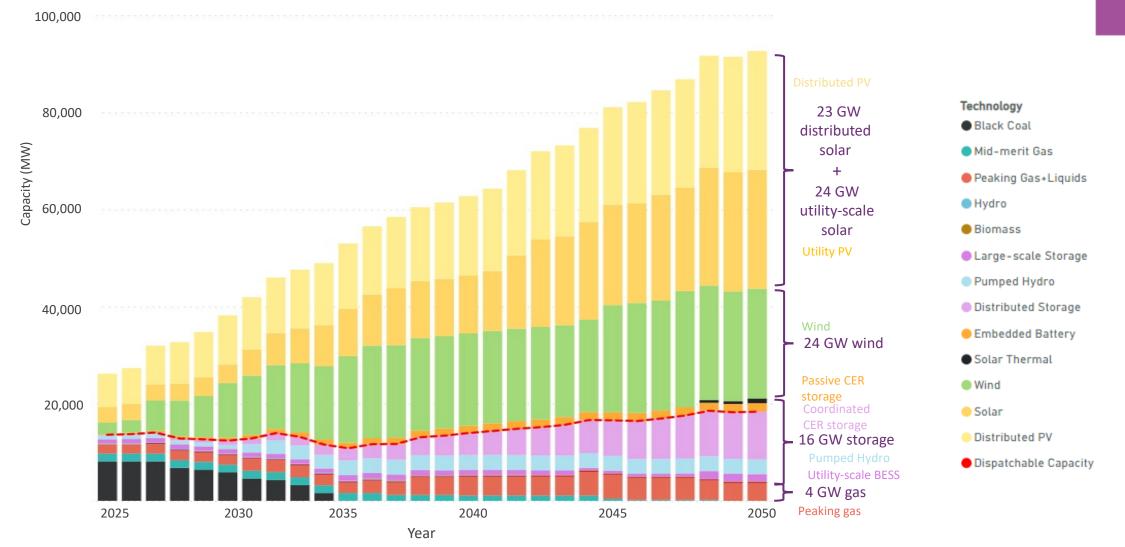
Operational transition planning

Delivering proactive study, sequencing, and governance to critical system configurations known as 'operational transition points' to ensure secure system operation can be maintained in the long-term interest of consumers.



Changing supply mix – QLD capacity 2024 ISP - Step Change

Eight times today's utility-scale wind and solar, and five times today's consumer energy resources, by 2050





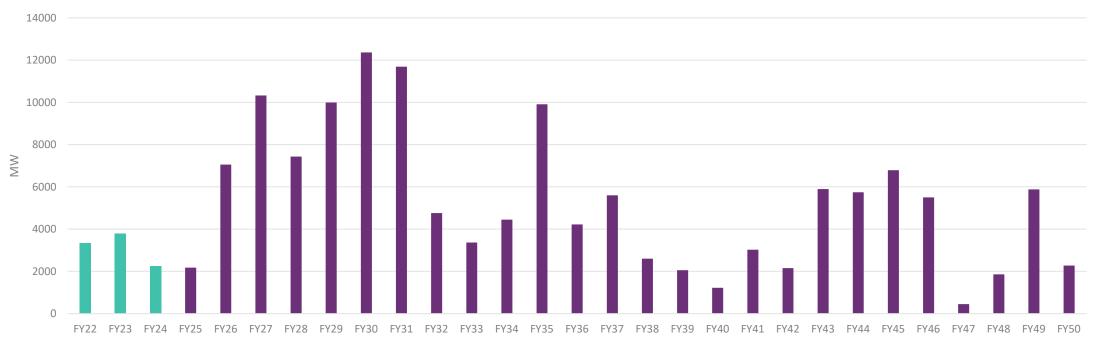
Focus on large scale connections



New Connections Applications for Generator Performance Standards Approval	FY22	FY23	FY24	∆ FY22-FY24
National Energy Market	11.7 GW	14.1 GW	19.0 GW	62%
Queensland	1.3 GW	3.5 GW	6.2 GW	377%

• Significant levels of connection required across the NEM: 6-7 GW p.a. for next 15 years c.f. 3-4 GW per annum currently

New Grid Connections - Step Change Scenario (2024 ISP)





Small scale - Operating with high-CER Draft functional requirements

AEMO's responsibilities as the bulk power system operator

- Maintaining power system security
 - Managing technical envelope
 - Frequency management
 - Voltage management
 - System strength
 - System restart
- Centralised dispatch process
 - Operational forecasting
 - Scheduling and dispatch

Assess current and emerging challenges with increasing CER

How CER uptake impacts AEMO's operational responsibilities:

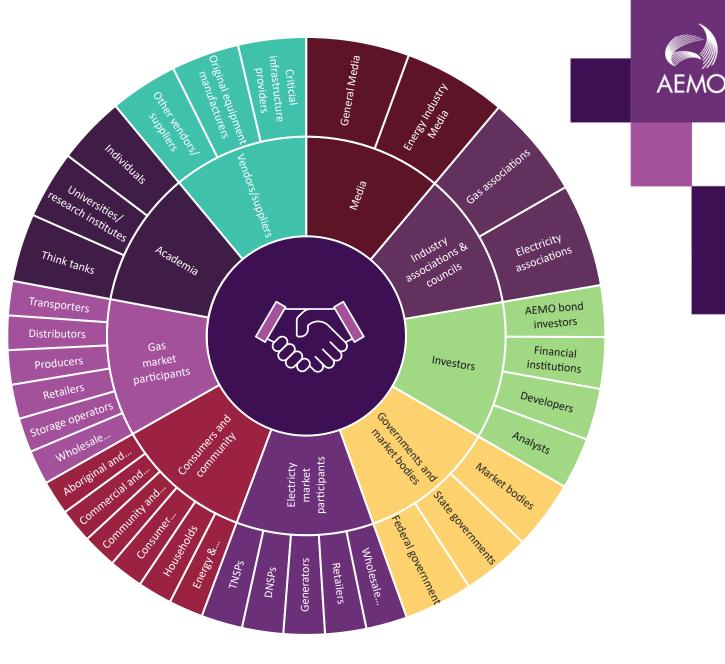
- Device-level
 - Visibility & predictability
 - Controllability
 - Performance
- System management
 - Activity within Dx network
 operating zone
 - AEMO-T-D coordination

Use Cases & Requirements that need to be reviewed due to these impacts

- 1. CER visibility and predictability
- 2. CER performance during disturbances
- 3. Emergency DPV curtailment
- 4. Voltage Management
- 5. CER scheduling and operational coordination
- 6. Manage CER cyber security compromise
- 7. System restart with increasing DER
- 8. Underfrequency management with increasing DER

The challenge that lies ahead is too big for any one organisation to tackle alone.

It requires robust collaboration encompassing the diverse organisations across the energy sector, our broader community, industry and governments.





Thank you

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AMEO Update with Merryn York, Executive General Manager System Design

Q&A with Paul and Merryn

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Interactive session

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2024 Transmission Network Forum

Q&A with Paul and Merryn





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Decarbonising Central Queensland

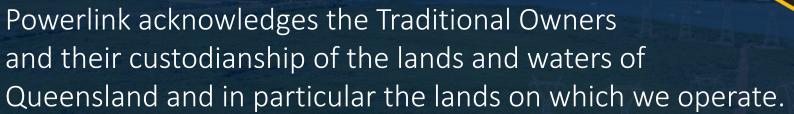
Daniel Andersen

General Manager Energy Markets Powerlink Queensland





Acknowledgement



We pay our respect to their Ancestors, Elders and knowledge holders and recognise their deep history and ongoing connection to Country.



Importance of Gladstone





Gladstone region load

20-25% state electricity supply

11 Contract Contra





Gladstone region generation

1680MW

Gladstone Power Station

Scheduled close in 2035

700MW

Callide B Power Station

Scheduled close in 2028



At least 3.5 years' notice of expected closure required

2024 Transmission Network Forum



Gladstone region generation

1680MW

Gladstone Power Station

Scheduled close in 2035

700MW

Callide B Power Station

Scheduled close in 2028

30,000MW

Battery/solar/wind already in development

At least 3.5 years' notice of expected closure required

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Priority Transmission Investment



Renewable Energy Zone (REZ) Delivery Body



Social licence



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Panel | Decarbonising Central Queensland



MODERAZO

Executive General Manager Energy Futures

Vik Selvaraja

General Manager

Pacific Repowering

Rio Tinto







Dana Boxall

General Manager Community and Delivery Services Roger Smith

Director Revenue Reset Daniel Andersen

General Manager Energy Markets

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Interactive session questions

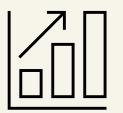
ONLINE PARTICIPANTS please go to **<u>bit.ly/PQForum</u>**



What can Powerlink do to provide **more investment certainty** in the Central Queensland region?



What else does Powerlink **need to consider** from a social licence and community perspective?



How does Powerlink best time network investment in Central Queensland to meet future load growth?



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2024 Transmission Network Forum

Transmission Annual Planning Report (TAPR) Technical Session





Stewart Bell

Executive General Manager Network and Business Development Powerlink Queensland Powerlink acknowledges the Traditional Owners and their custodianship of the lands and waters of Queensland and in particular the lands on which we operate.

We pay our respect to their Ancestors, Elders and knowledge holders and recognise their deep history and ongoing connection to Country.



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Thank you

TAPR

Demand forecasts

Connection pipeline

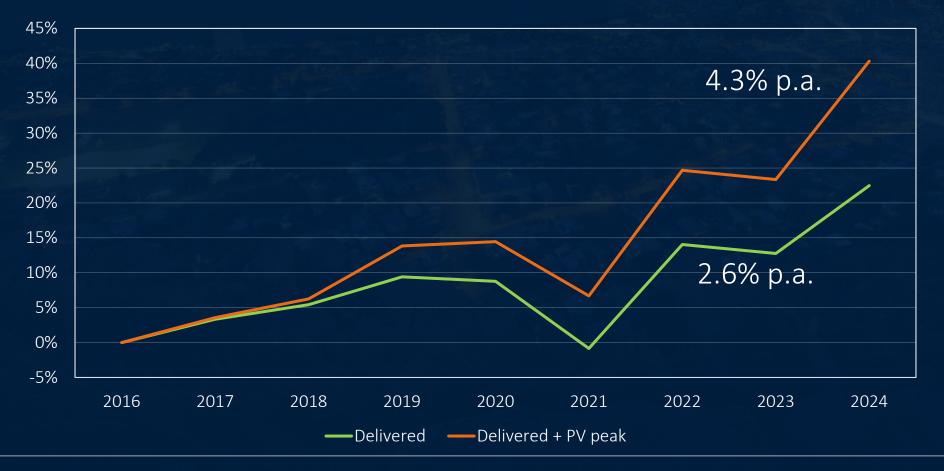
Network development

Ancillary services

Leverage shared network capacity

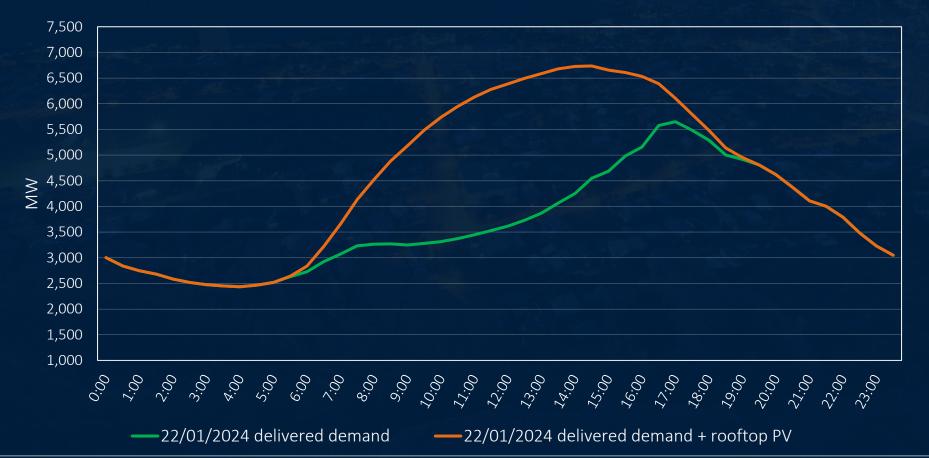
Guide the market

Historical SEQ maximum demand

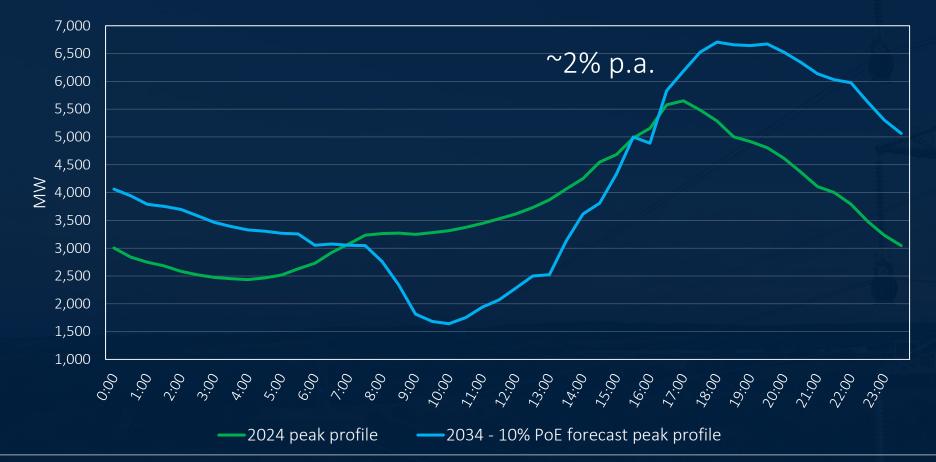




SEQ maximum demand day



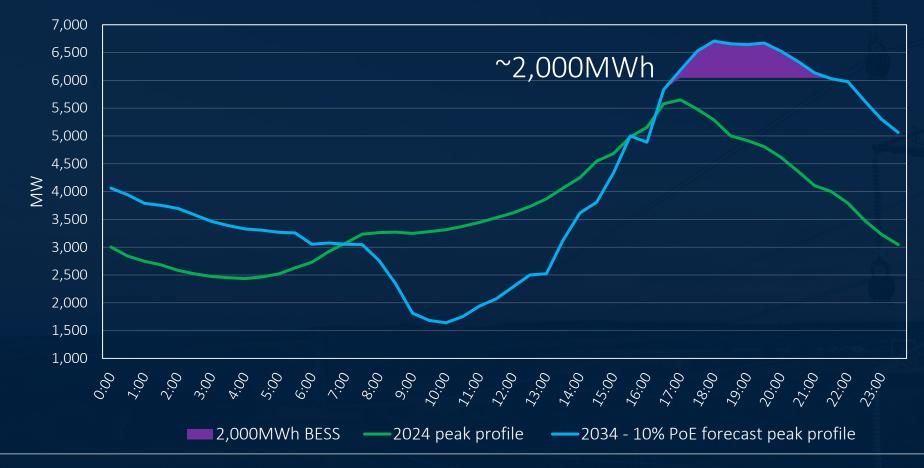
Forecast SEQ maximum demand



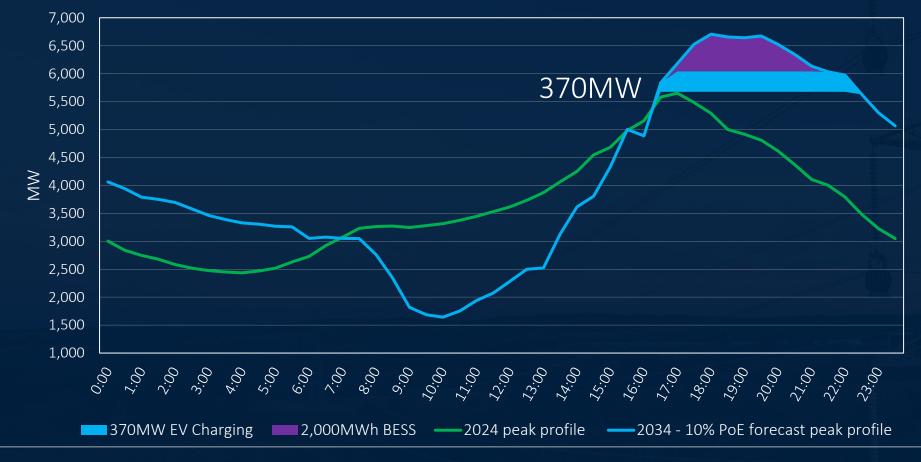
Moderating SEQ maximum demand



Moderating SEQ maximum demand



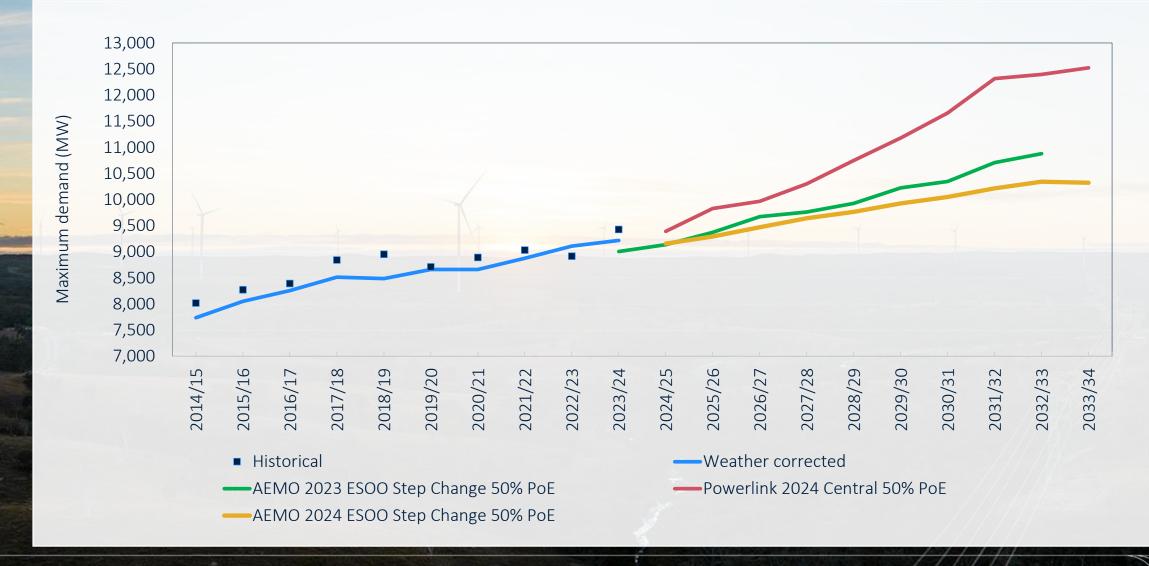
Moderating SEQ maximum demand



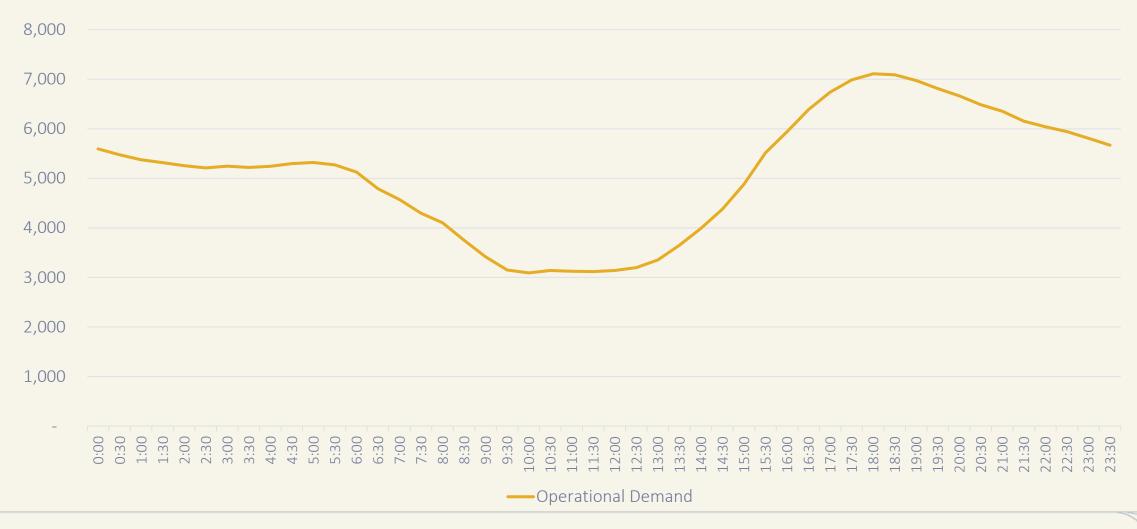
New large industrial loads

Zone	Description	Load in forecast	Possible load
North Queensland	Electrification		1,600MW
	Manufacturing		
Gladstone	Hydrogen production and liquefaction	~1,500MW	3,300 – 7,750MW
	Electrification		
Southern Queensland	Data Centre and industrial		275MW

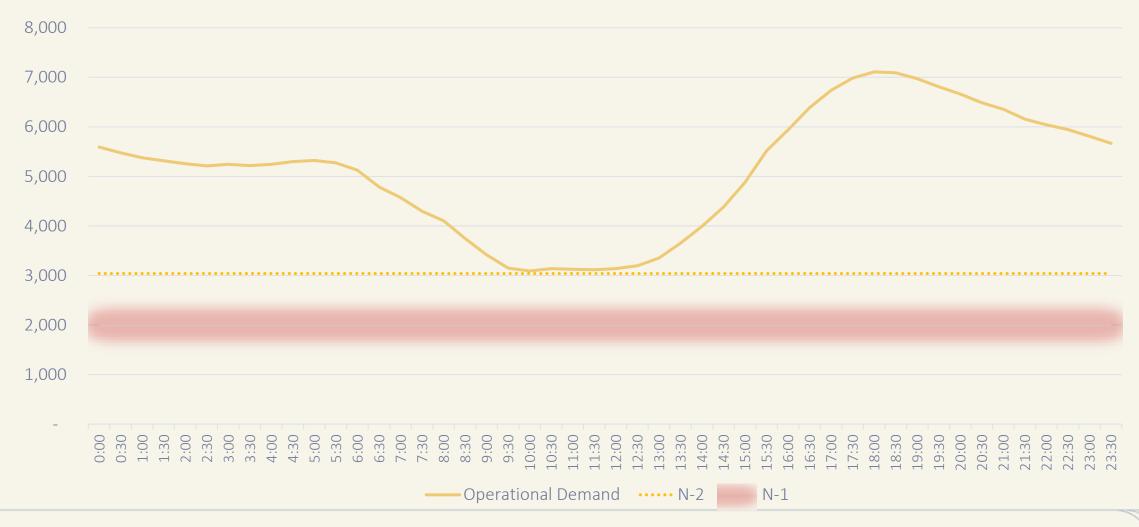
Queensland maximum demand forecast



Minimum demand



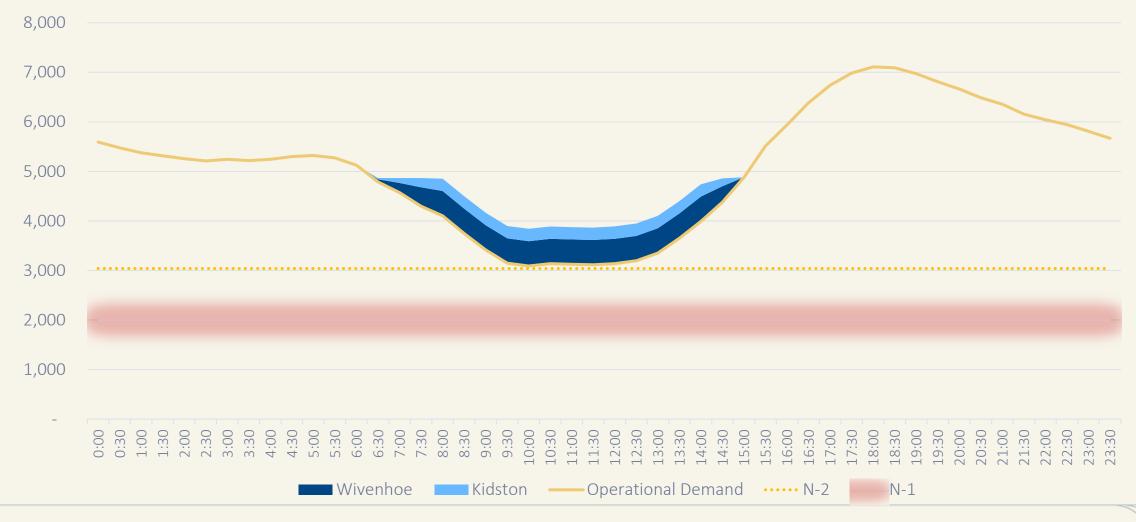
Minimum demand – stability limits



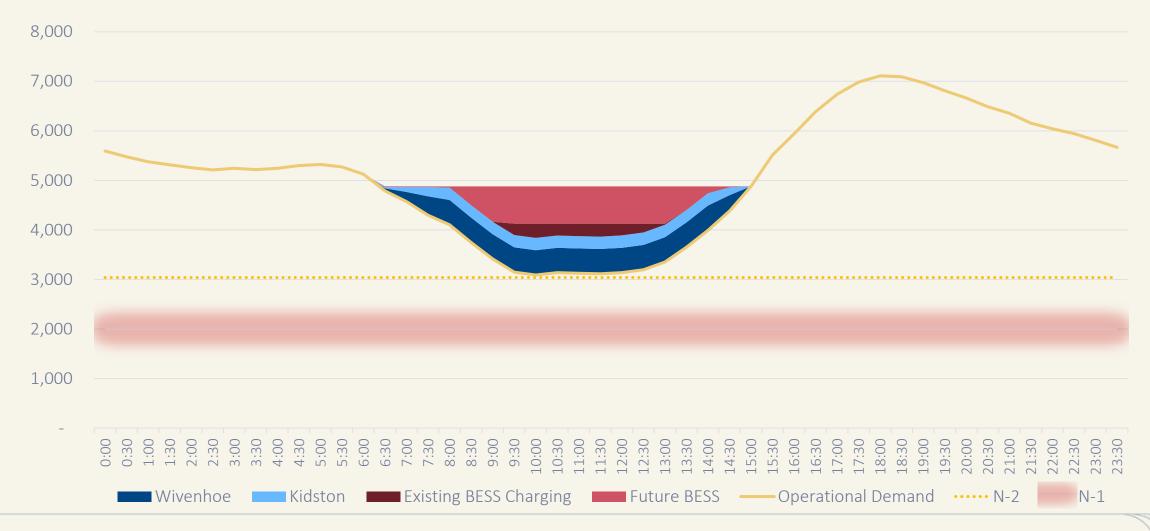
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Minimum demand – pumped hydro



Minimum demand – batteries



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Demand forecasts

Connection pipeline

Network development

Ancillary services

Leverage shared network capacity

Guide the market

Queensland forward pipeline



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Demand forecasts

Connection pipeline

Network development - Renewable Energy Zones

Ancillary services

Leverage shared network capacity

Guide the market



Renewable Energy Zones

	FAR NORTH	SOUTHERN	WESTERN
	QUEENSLAND	DOWNS	DOWNS
Network capacity	~500MW	~ 2,000MW	~1,800MW
Contracted capacity	152MW	890MW	500MW
Application date	September	December	January
	2019	2020	2021
Energisation	October	December	November
date	2022	2023	2024
Cycle time	3.2 years	3.0 years	3.7 years



Demand forecasts

Connection pipeline

Network development – SQ-CQ connection

Ancillary services

Leverage shared network capacity

Guide the market

Original SQ-CQ connection



Brisbane

Rockhampton



*Indicative geographical representation only







Demand forecasts

Connection pipeline

Network development

Ancillary services

Leverage shared network capacity

Guide the market

Ancillary services

Technology type	System Strength - protection quality fault level	System Strength - stable voltage waveform	Inertia	Voltage control
Synchronous machines (gas, coal, PHES, syncon)	Yes – High	Yes	Yes – synchronous inertia <i>(note 2)</i>	Yes – slow voltage control
Grid forming BESS	Yes – Low (note 1)	Yes	Yes – synthetic inertia	Yes – fast voltage control
Grid forming STATCOM	Yes – Low (note 1)	Yes	No, without storage, Yes, with energy storage <i>(note 3)</i>	Yes – fast voltage control

(1) The magnitude is significantly lower than that of synchronous machines
(2) Synchronous condensers may require flywheels to provide sufficient inertia levels
(3) With an alternative configuration supercapacitors can provide inertia and primary frequency control

System Strength Regulatory Investment Test for Transmission (RIT-T)

- Powerlink is the designated System Strength Service Provider for Queensland, and is responsible for the provision of system strength services from 2 December 2025
- Commenced the RIT-T process to make system strength services available in March 2023
 - Around 80 unique potential solutions from over 20 proponents
- Project Assessment Draft Report published 4 November 2024
 - Technical and economic assessment of five portfolio options
 - Potential need for up to nine new synchronous condensers by 2034
 - Expect other cost-effective solutions to become available

System Strength proposed solution

- Contract with generating units in Southern and Northern Queensland
- Contract with existing gas turbines to install clutches
- Contract with grid forming batteries to enable connection of future renewable generation
- Powerlink to invest in two or three synchronous condensers in Central Queensland
- Maintain flexibility to reopen the regulatory investment test when other projects become committed

Submissions and proposals for non-network solutions due by Friday, 20 December 2024

Email networkassessments@powerlink.com.au for information



Demand forecasts

Connection pipeline

Network development

Ancillary services

Leverage shared network capacity

Guide the market

Getting more from what we have

- Wide Area Monitoring Protection and Control (WAMPAC) N-2 non-credible event
- Wide Area Monitoring Protection and Control for system strength
- High temperature conductor to provide a higher thermal capacity
- Real-time line ratings
- Virtual transmission line we can use WAMPAC capability with batteries to get more out of the transmission network
- Leveraging flexible loads to defer augmentations





Demand forecasts

Connection pipeline

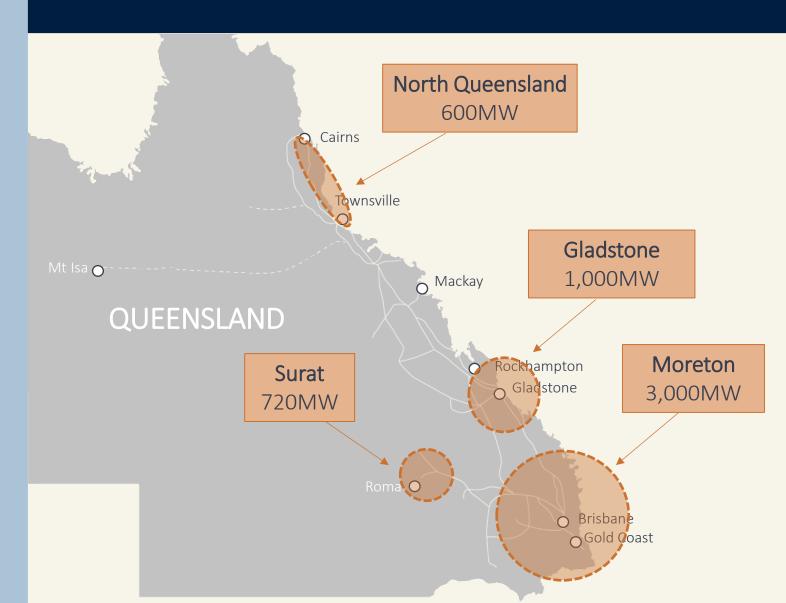
Network development

Ancillary services

Leverage shared network capacity

Guide the market

Load centres





Pumped Hydro Energy Storage

EXISTING AND UNDER CONSTRUCTION

- Kidston 250MW 2.0GWh
- Wivenhoe 570MW 5.7GWh

PROPOSED

- Borumba 2000MW 48GWh
- Capricornia Energy Hub 750MW 12GWh
- Cressbrook (Big T) 400MW 4GWh
- Flavian 600MW 10GWh
- Mt Rawdon 1000-2000MW 20GWh

Total : ~6GW ~100GWh



Wind

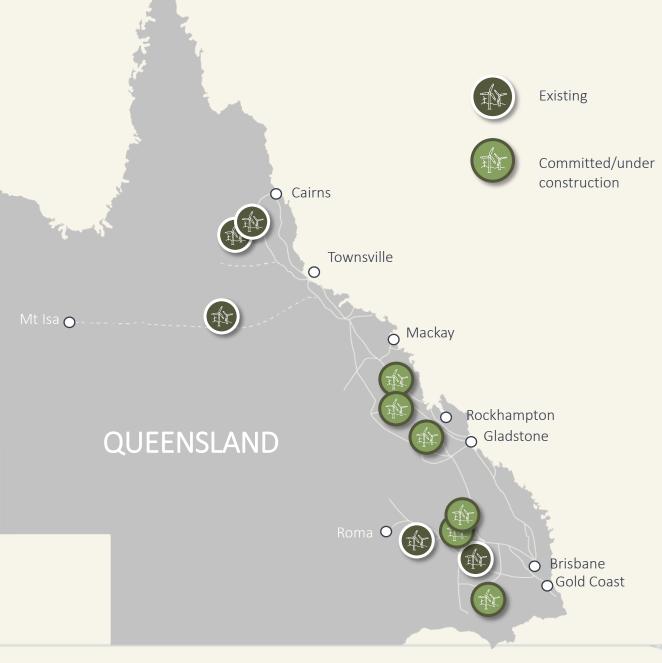
<u>EXISTING</u>

- Coopers Gap Wind Farm 440MW
- Dulacca Renewable Energy Project 173MW
- Kaban Green Power Hub 152MW
- Kennedy Energy Park 43MW
- Mt Emerald Wind Farm 180MW

UNDER CONSTRUCTION

- Boulder Creek Wind Farm 221MW
- Clarke Creek Wind Farm 440MW
- Lotus Creek Wind Farm 276MW
- MacIntyre Wind Farm 890MW
- Wambo 1 and 2 Wind Farms 497MW

Total : 3,312MW



Gas Generation

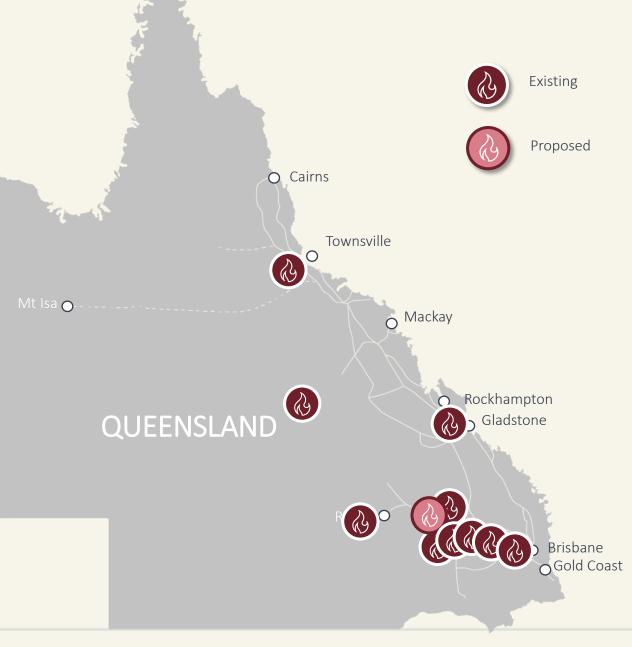
<u>EXISTING</u>

- Barcaldine 37MW
- **Braemar 1** 540MW
- **Braemar 2** 520MW
- Condamine 144MW
- Darling Downs 630MW
- Oakey 346MW
- Roma 68MW
- Swanbank E 365MW
- Townsville 240MW
- Yarwun 160MW

PROPOSED

• Brigalow GT 400MW

Total : 3,450MW



Batteries

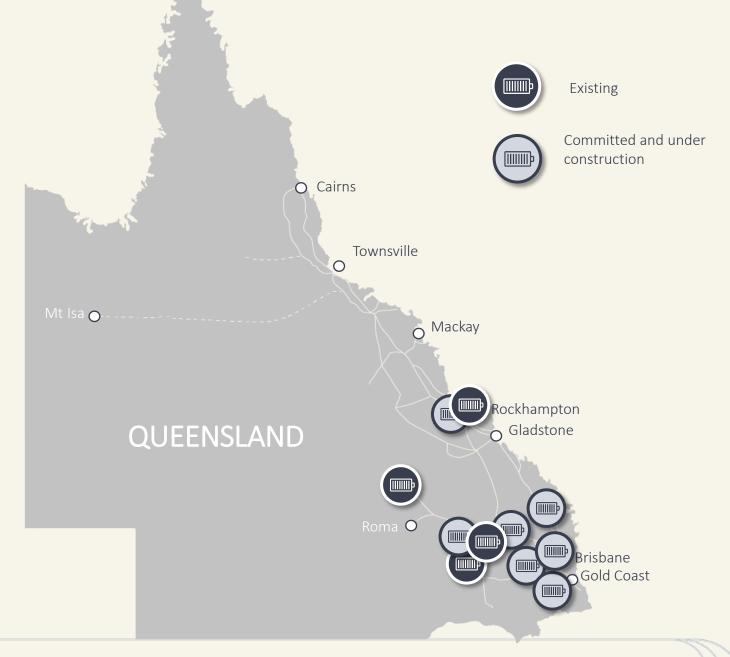
<u>EXISTING</u>

- Bouldercombe 50MW 100MWh
- Chinchilla BESS 100MW 200MWh
- Wandoan BESS 100MW 150MWh
- Western Downs BESS 200MW 400MWh

UNDER CONSTRUCTION

- Central REZ BESS 300MW 1200MWh
- Greenbank BESS 200MW 400MWh
- Supernode BESS 500MW 1500MWh
- Brendale BESS 205MW 410MWh
- Swanbank BESS 250MW 500MWh
- Tarong REZ BESS 300MW 600MWh
- Ulinda BESS 155MW 298MWh
- Woolooga BESS 200MW 400MWh

Total: 2,560MW 6,158MWh

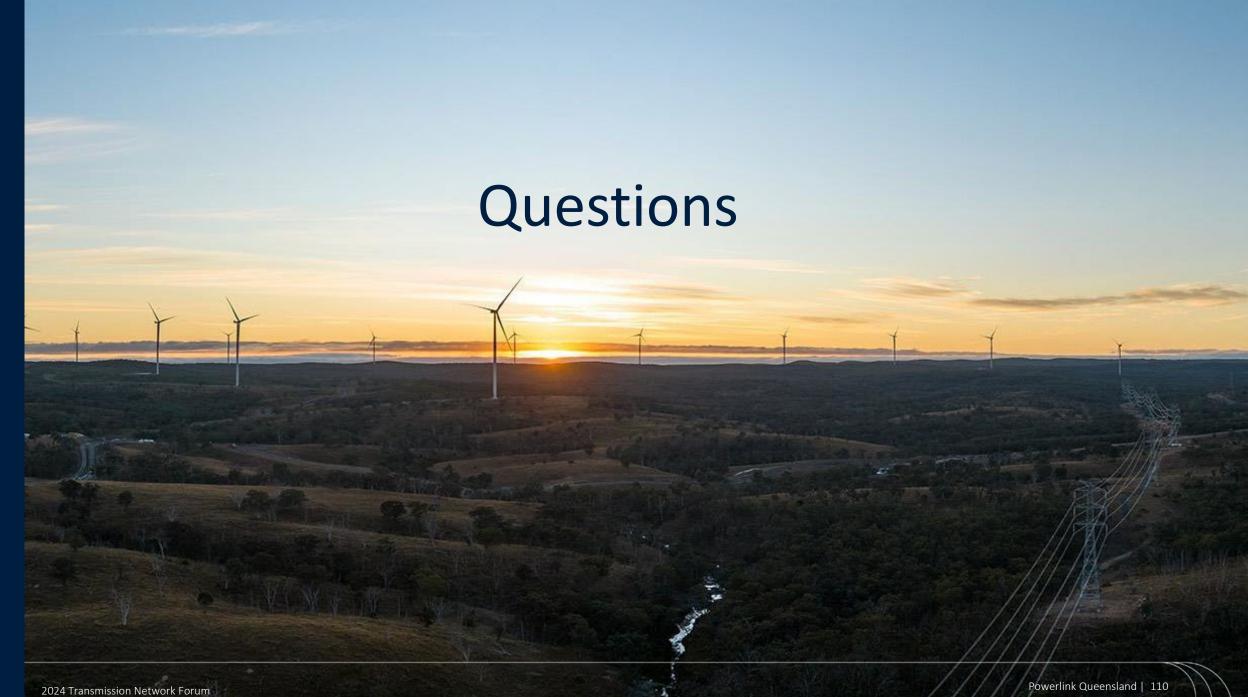


Dynamic Voltage Support

<u>EXISTING</u>

- Woree 132kV -80 150MVAr
- Ross 275kV -80 150MVAr
- **Strathmore** 275kV -94 260MVAr
- Nebo 275kV -80 260MVAr
- Woolooga 275kV -100 350MVAr
- South Pine 275kV -100 350MVAr
- Blackwall 275kV -50 250MVAr
- **Greenbank** 275kV -100 350MVAr

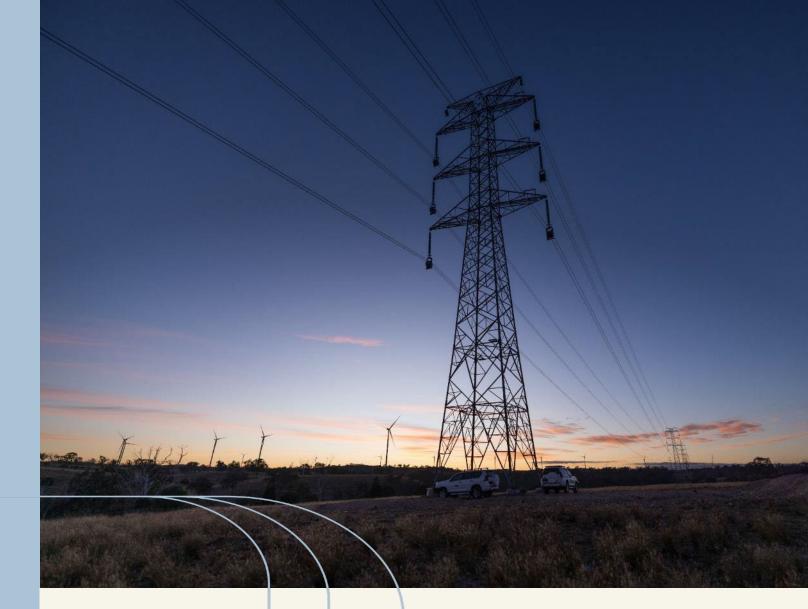




2024 Transmission Network Forum

A word from our **Chair**

Kathy Hirschfeld AM Chair





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bit.ly/PQForumFeedback



Thank you for being part of our 2024 Transmission Network Forum

CONNECTING QUEENSLANDERS TO A WORLD-CLASS ENERGY FUTURE