

# Powerlink's Customer Panel Meeting

18 March 2021



- Powerlink Strategy 2021 onwards
- Update from Revenue Proposal Reference Group (RPRG)
- Revenue Determination process update
- RIT-T update
- Afternoon tea
- Tour of Operations and Service Delivery's forensic laboratory

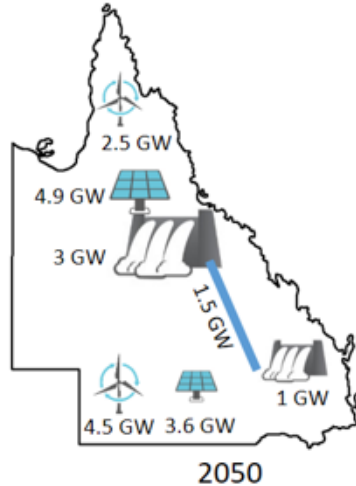
# Powerlink Strategy 2021 onwards

Paul Simshauser  
Chief Executive

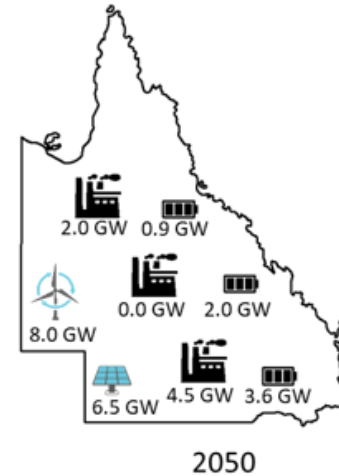


- Powerlink is facing a fundamental transformation of the energy sector and is preparing for this new role through our strategy development.
- Key to strategy development is forecasting the energy sector and market need over the next few decades.
- Powerlink started this with the Network Vision which has led to our Integrated Electricity Pathways (IEP) work.
- The key findings to date from the IEP are helping us frame our business strategy.

## Pathway for development of pumped hydro and high voltage direct current (HVDC)



## Pathway for development of batteries and gas



- Market direction will depend on influences, incentives and choices of our customers.
- Outcomes could vary significantly depending on input assumptions and these are only two of many pathways.
- Storage is an integral element of all plausible future pathways, whether it is pumped hydro with high capacity links, or local battery storage supported by smaller synchronous generation.

- Finding 1      Falling minimum demand
- Finding 2      NSW Energy Infrastructure Roadmap (EIR) has implications for the National Electricity Market
- Finding 3      Renewable Energy Zones (REZs) need a different business model
- Finding 4      Deep storage is essential for low-cost coal transition
- Finding 5      Strategic importance of base loads in Queensland.



**PURPOSE: Why our business exists and for whom**

**Connecting Queenslanders to a world class energy future**

**STRATEGIC OBJECTIVES: What we aim to achieve**

**Guide the Market**

**Be the  
Renewable Super Grid**

**Drive Value for  
Customers**

**Unleash our Potential**

We have defined what success looks like so we can measure our progress on achieving our objectives.

**What we do**

**Regulated Business**

**Non-Regulated Business**

**Power System Transformation**

**What we value and how we will behave**

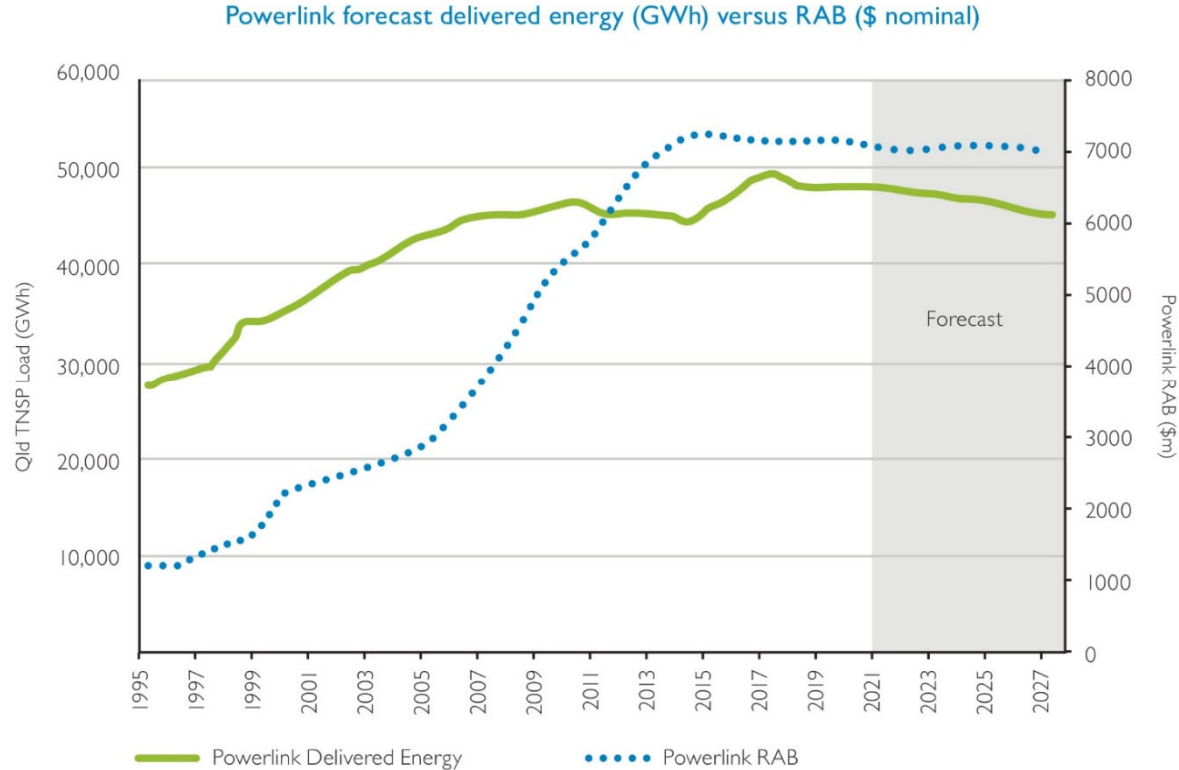
**Accountability**

**Customer**

**Teamwork**

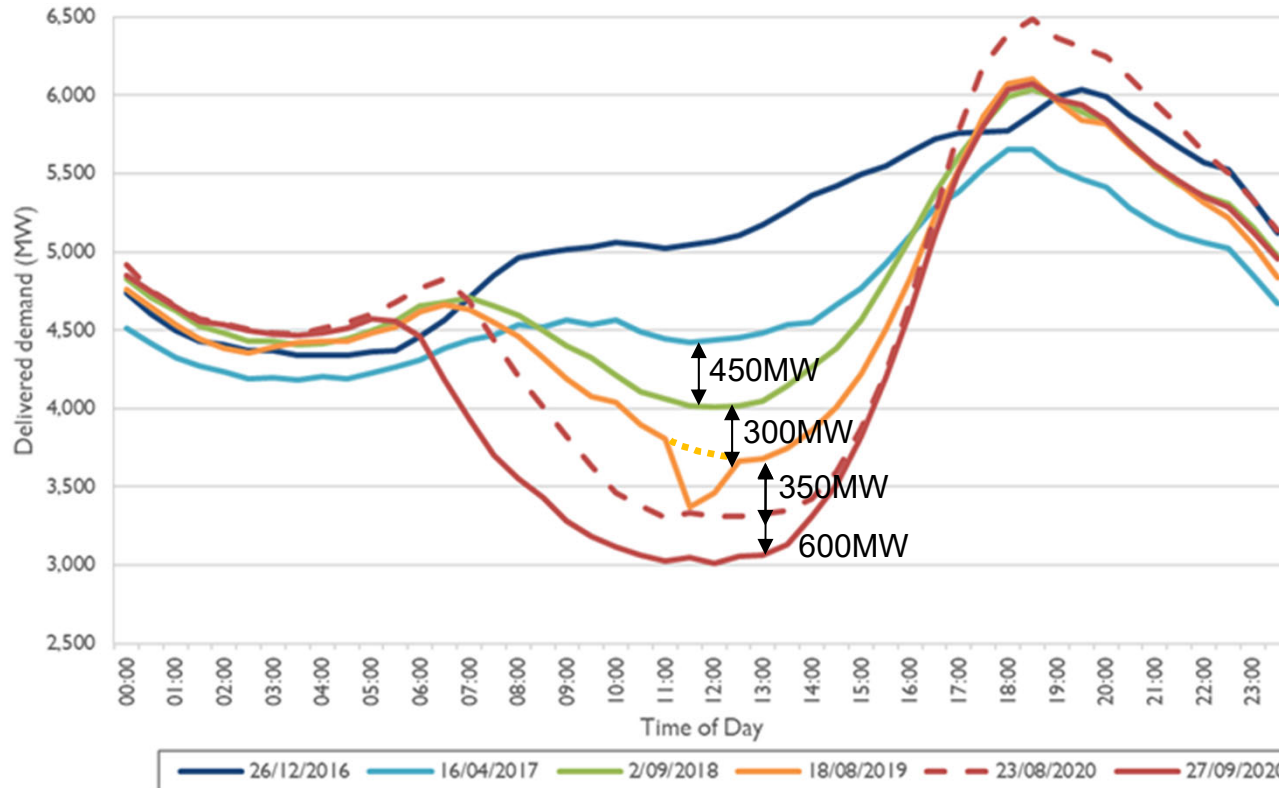
**Safety**

We have an objective to bend the RAB to drive customer value and become a world-class TNSP.





## Transmission delivered annual minimum demand for the Queensland region



## **Strong government support for QREZ development**

- \$145M to develop three REZs – Northern, Central and Southern Queensland.
- REZs help meet Queensland Renewable Energy Target of 50% by 2030 and net zero emissions by 2050.
- REZs focus on regional development.

## **Powerlink has provided preliminary advice to government**

- Network planning, market modelling and property analysis being conducted to inform potential REZ options, aligned with IEP work.
- Subsequent development is not straightforward regarding the NSW EIR.
- REZ costs should not *default* to electricity consumers.

# Questions?

# Revenue Proposal Reference Group update

Robyn Robinson  
Council on the Ageing

Mark Grenning  
EUAA



# Revenue Determination process update

Matthew Myers  
Manager Revenue Reset



# Revenue Proposal forecasts at a glance



## Maximum Allowed Revenue

2018-22 \$3,921.3m  
2023-27 \$3,333.9m

↓ \$587.4m (15%)



## Rate of Return

2018-22 ~6%  
2023-27 ~4.44%

↓ ~1.5%



## Capital Expenditure

2018-22 \$891.3m  
2023-27 \$863.9m

↓ \$27.4m (3%)



## Operating Expenditure

2018-22 \$1,029.4m  
2023-27 \$1,029.4m

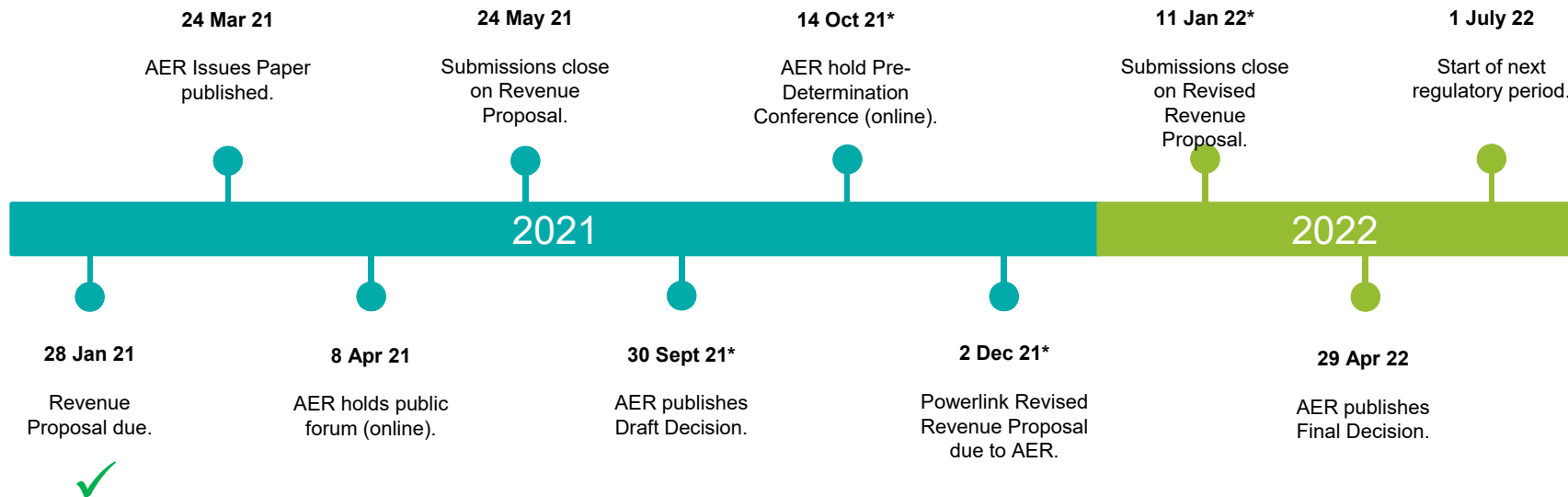
\$0 difference  
(no real growth)

### Notes:

- All figures are in \$m real, 2021/22 and are for the full five-year regulatory period.
- MAR is compared to the AER allowance for the 2018-22 regulatory period.
- Rate of return is nominal vanilla.
- Capital and operating expenditure are compared to the actuals/forecast for the 2018-22 regulatory period.
- Capital expenditure figures are net of disposals.
- Operating expenditure figures reflect underlying operating expenditure, which excludes movements in provisions, Network Capability Incentive Parameter Action Plan (NCIPAP) project costs, debt raising and network support costs.



# Upcoming regulatory milestones



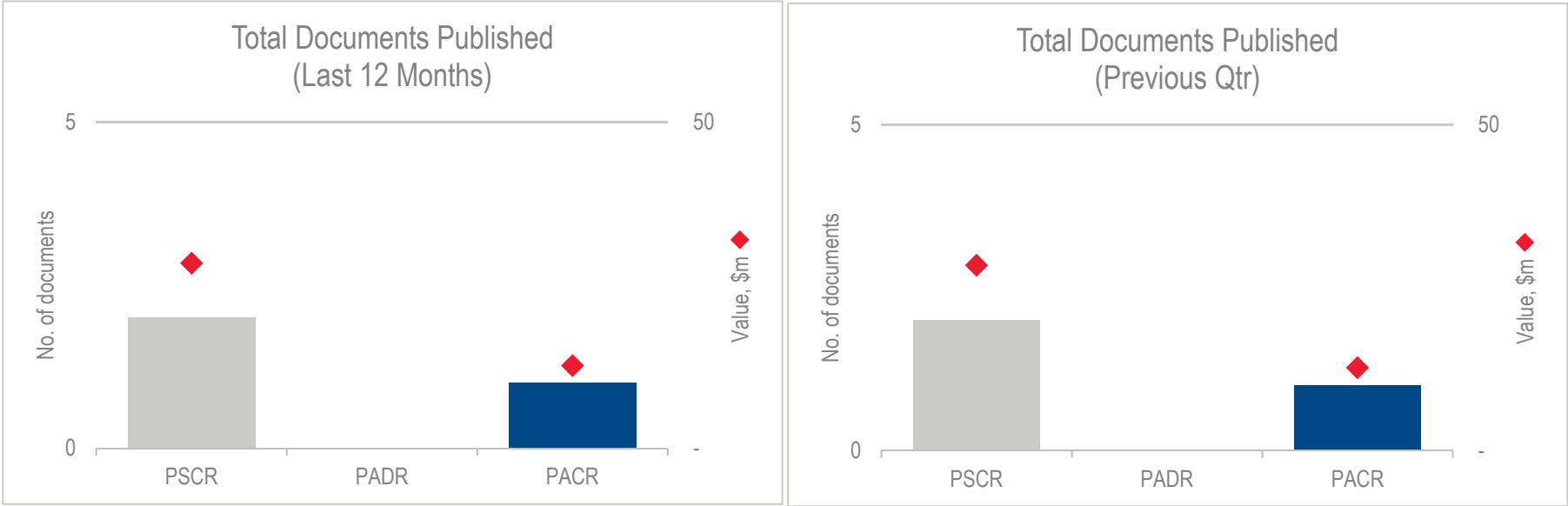
\* dates indicative.

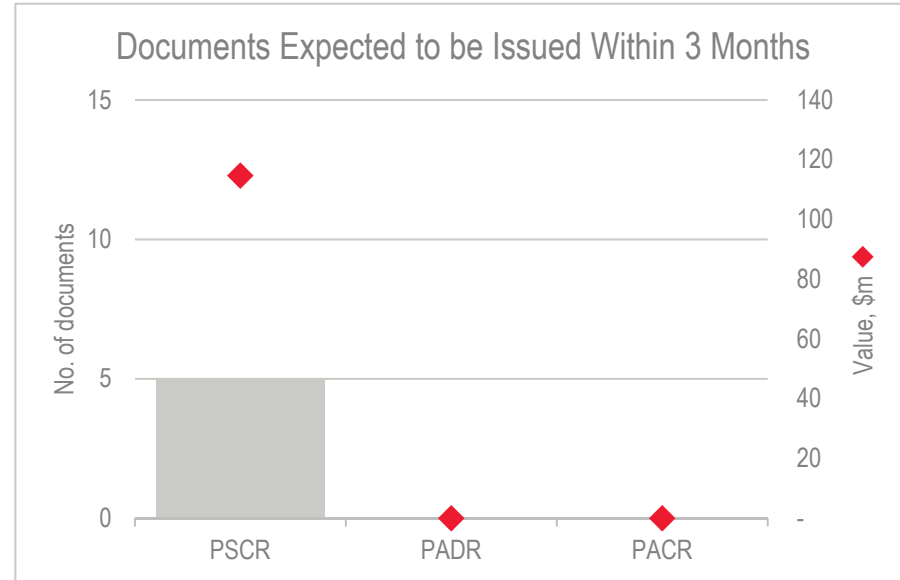
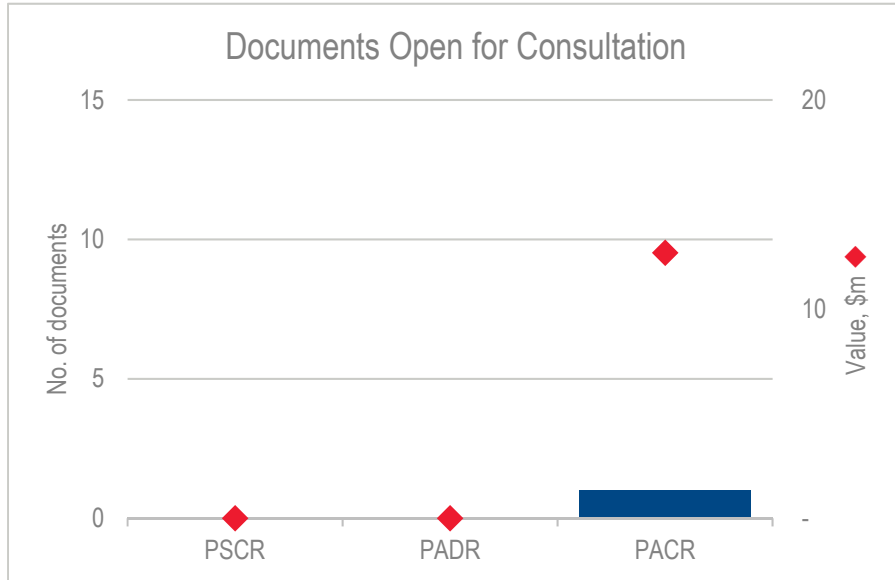
- Nine customer overview documents have been published on our [website](#) so far. These cover:
  - Revenue Proposal – chapter highlights
  - Revenue determination process
  - Capex forecasting methodology
  - Opex forecasting methodology
  - Rate of Return
  - Repex modelling
  - Incentive schemes
  - Transmission pricing
  - RIT-T process.

# Update on RIT-T for replacement projects

Glen Titman  
A/Manager Network & Alternate Solutions





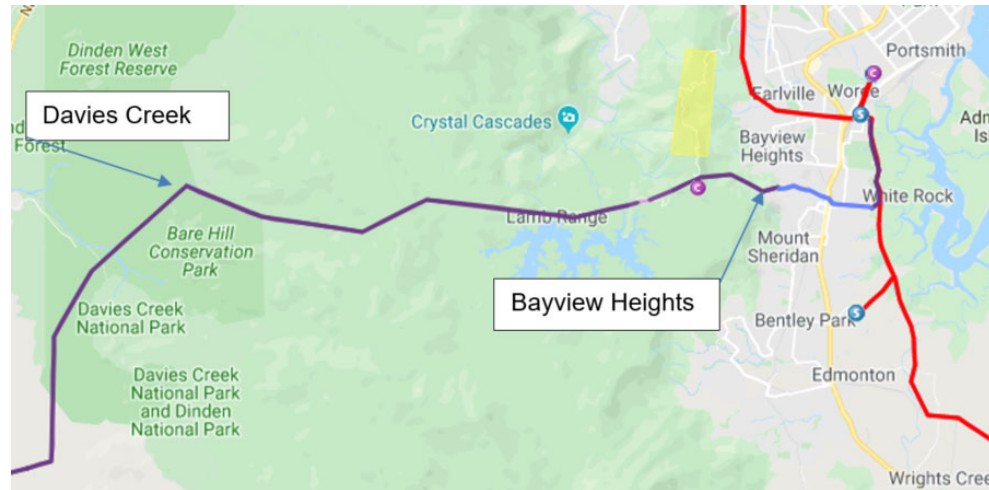


Engagement level	Project characteristics	RIT-T consultations	Proposed engagement activities
Minor (PADR Exempt)	<ul style="list-style-type: none"> <li>• Non-network options unlikely</li> <li>• No material market benefits identified</li> <li>• Preferred option &lt;\$41 million</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain transfer capability and reliability of supply at Redbank Plains</li> <li>• Managing voltages in SEQ</li> <li>• Nebo transformer replacement</li> <li>• Addressing the secondary systems risks at Chalumbin</li> </ul>	<ul style="list-style-type: none"> <li>• Notification to Powerlink Non-Network Engagement Stakeholder Register</li> <li>• AEMO Notice and summary</li> <li>• Publication of RIT-T project details on Powerlink website</li> <li>• Dedicated email contact to Customer Panel members</li> <li>• Alerts through Powerlink's Twitter and LinkedIn accounts</li> </ul>
Normal	<ul style="list-style-type: none"> <li>• Minor network reconfiguration / material impact on network users</li> <li>• Possibility of non-network options</li> <li>• Material market benefits identified</li> </ul>	<ul style="list-style-type: none"> <li>• Reliability of supply in the Cairns Region Stage 1</li> </ul>	<p>In addition to engagement activities at minor level:</p> <ul style="list-style-type: none"> <li>• Webinars</li> <li>• Stakeholder briefings</li> <li>• Discussion at Powerlink's Customer Panel</li> </ul>
Complex	<ul style="list-style-type: none"> <li>• Network reconfiguration / material impact on multiple network users</li> <li>• Likelihood of non-network options</li> <li>• Significant market benefits identified</li> </ul>		<p>In addition to engagement activities at normal level:</p> <ul style="list-style-type: none"> <li>• Stakeholder engagement plan</li> <li>• Phone calls to key stakeholders</li> <li>• Emails to all identified stakeholders</li> <li>• Dedicated engagement forum to seek feedback on options</li> </ul>



- Need is driven by voltage control issues on distribution and transmission networks.
  - Realisation of light loads due to uptake of rooftop solar
  - Reducing operation of synchronous generators
  - Improving load power factor
  - Changes in generation patterns.
- Temporary contract with synchronous generator to be used in the interim to address the need.
- While there is a possibility of non-network solutions to meet some of the need, no submissions were received during the recent RIT-T for CQ.
- Any non-network solution would still require the implementation of at least one or two reactors to address need within the required timeframes.
- Two-stage RIT-T to commence in April.

- RIT-T to be delivered in two stages with different need dates.
- Critical built section to be addressed first between Bayview Heights and Davies Creek. Structures traversing approximately 16km through the World Heritage listed Wet Tropics area.
- Further works on remainder of built sections between Chalumbin and Woree to be delayed three years based on condition.





- Structures within built section ~75 metres tall traversing over the tree canopy
- Heavily vegetated making for difficult access
- Constraints on acquiring additional easements within protected Wet Tropics area
- Three-stage RIT-T to commence in March.

Afternoon tea break





# Tour of Operations and Service Delivery's forensic laboratory

Brody Ward  
Primary Systems Support Engineer



Close and thanks

