

Queensland's future power system



2022

4GW renewable generation

8. I GW coal generation

Firming & storage mainly comes from coal & gas

Low demand growth

High amount of rooftop solar

2035

25GW renewable generation

Some coal-fired generation remains, repurposed for system strength & inertia

Firmed by at least 6GW of long-duration storage, 3GW of utility-scale batteries, 3GW of hydrogen-ready gas-fuelled plant

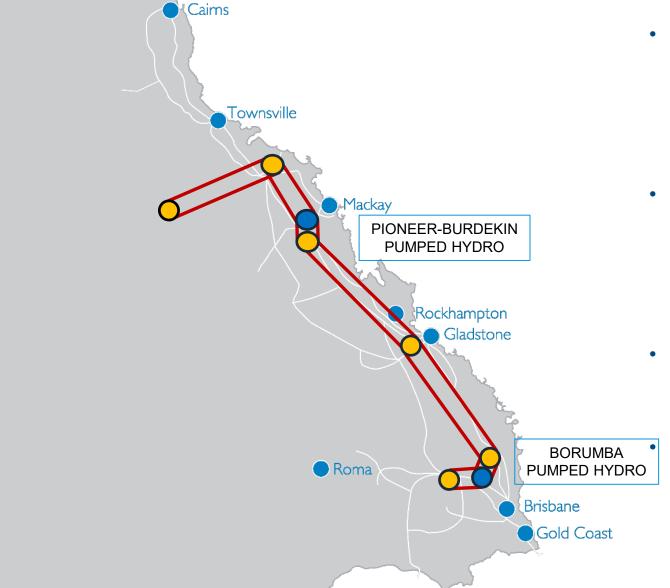
Electrification of heavy industry

Opportunities for greater flexibility on the demand side

Continued rooftop solar growth



Upgrading the transmission network



- Stage 1: Borumba Pumped Hydro transmission connection
 - Planned capacity of up to 2GW
 - Two connection points ~\$800M
 - Commissioning works in 2029
- Stage 2: Central Queensland Connection
 - 290 kilometre connection
 - Support Central Queensland REZ renewable generation developments
 - Commissioning planned in 2031
- Stage 3: Pioneer-Burdekin Pumped Hydro and North Queensland connection
 - Operational date in 2032.

Stage 4: Connection to Hughenden Area (Clean Energy Hub)

Commissioning planned in 2036

Question



How can Powerlink best plan the development of its network to ensure an integrated approach that delivers whole-of system benefits?

