

ENERGY UPDATE

Cleaner energy for Queenslanders

December 2022 – Issue 10



Queensland Energy and Jobs Plan

The Queensland Energy and Jobs Plan, released in September, positions Queensland to deliver more clean energy and jobs in regional communities. The ambitious new Plan outlines our pathway to a clean, reliable and affordable energy system to provide power for generations.

It builds on the Queensland Government's long-standing target of 50 per cent renewable energy by 2030, with new commitments of 70 per cent renewable energy by 2032, and 80 per cent by 2035.

Through the Plan, the government has made a \$4 billion down payment on the state's energy transformation. This Plan will deliver real and lasting benefits for Queenslanders, powering us towards a cleaner, renewable energy future and supporting around 100,000 direct and indirect jobs by 2040.

The Plan sets out a range of actions to drive investment; deliver clean, reliable, and affordable energy to households and businesses; give certainty and deliver better outcomes to our workers and communities; and unlock opportunities for industry. Visit qld.gov.au/energyandjobsplan for more details.



Building Queensland's SuperGrid



As part of the Queensland Energy and Jobs Plan, we're building a 'SuperGrid' to generate, store and transport cleaner energy across the state – a transformation that will require \$62 billion worth of public and private investment, creating an estimated 64,000 jobs by 2040.

By 2035, the SuperGrid will require around 25 gigawatts

(GW) of new and existing renewable energy capacity, representing around 12 GW of new large-scale wind and 10 GW of additional large-scale solar generation. This production will drive demand for wind turbines, solar panels, batteries, pumped hydro equipment and transmission lines.

Because so much of this equipment will be procured by Queensland Government Owned Corporations, we have the chance to use our purchasing power to drive local manufacturing.

Our publicly-owned power companies will work with local businesses to enhance access to the government market for energy infrastructure, to help build entire new manufacturing supply chains.

A confidential market sounding process will be conducted to identify manufacturing opportunities. Businesses can register their interest in the market sounding via statedevelopment.qld.gov.au/energymanufacturing



Guaranteed support for energy workers

As Queensland moves towards its renewable energy future, the Queensland Government's \$150 million Jobs Security Guarantee will support workers in publicly owned coal-fired power stations, ensuring no worker is out of a job.

Under the guarantee, workers will have access to reskilling, transfers to new opportunities and advice on future career pathways.

The guarantee is backed by the new Energy Worker's Charter, an agreement that supports and provides confidence to workers through the energy transformation. The charter is between unions, employers and government, and sets out principles and actions to support workers.

Future employment pathways for coal-fired power station workers include work on the new SuperGrid (e.g. electricians and line workers); jobs in maintenance hubs for renewables; jobs in building and deploying flow battery and other storage technologies; positions in new gas to hydrogen power stations; and jobs to support the expansion of renewables.



Savings for households and businesses

Through the Queensland Energy and

Jobs Plan, the following measures are being introduced to put downward pressure on power prices for households and businesses:

- \$638.5 million subsidy in 2022-23 to ensure regional Queenslanders pay a similar price as SEQ electricity customers
- \$10 million for non-government organisations to help Queenslanders lower their bills
- \$500 million to accelerate the rollout of more large-scale and community batteries
- delivery of a smarter grid to make it easier for households to connect their smart technologies (e.g. solar, batteries and electric vehicles)
- a new household program, including support for batteries, to further assist Queenslanders to manage their electricity use and bills
- \$35 million Queensland Business Energy Saving and Transformation Program to help small and medium sized businesses save money on their electricity
- \$7.1 million grant program for up to 400 small and medium sized manufacturers to incorporate energy efficiency measures.



Queensland
Government

Renewable energy training facility



Premier Annastacia Palaszczuk and Minister for Energy, Renewables and Hydrogen Mick de Brenni with Jordan at the official opening of the Renewable Energy Training Facility.

A state-of-the-art new training facility for renewable energy will give workers the skills they need for the thousands of jobs to be created under the new Queensland Energy and Jobs Plan.

Premier Annastacia Palaszczuk officially opened Electro Group's Renewable Energy Training Facility at Pinkenba in October.

The Queensland Government's investment of \$17 million towards this \$23 million training centre of excellence will help create a skilled future workforce to provide clean, reliable and affordable energy for Queenslanders.

The Queensland Energy and Jobs Plan will create around 100,000 jobs, so facilities like this are critical in developing the skills to build new clean energy infrastructure and industries.

The Renewable Energy Training Facility will provide world's best practice in electrical, solar renewable energy and telecommunications training, creating a future-ready workforce and supporting our students to reach their full potential.

The investment was part of the government's Queensland Economic Recovery Strategy: Unite and Recover for Queensland Jobs.

Queensland home to one of the largest wind farm projects



ACCIONA Energia's wind farm blades arrive at the Port of Brisbane.

Queensland will be home to one of the largest wind projects in the world, with global energy company ACCIONA Energia announcing its new \$2 billion wind project.

The 1,000-megawatt (MW) Herries Range Wind Farm will be built within the MacIntyre Wind Precinct, west of Warwick, bringing the total amount of renewable energy to 2,000 MW – enough to power 1.4 million Queensland homes.

The project will help to support the target of 70 per cent renewable energy by 2032, under the Queensland Energy and Jobs Plan.

The MacIntyre Wind Precinct, located in the Southern Queensland Renewable Energy Zone, will now include ACCIONA Energia's MacIntyre and Herries Range wind farms, and government-owned CleanCo's proposed Karara Wind Farm.

Both the MacIntyre and Karara Wind Farms are expected to generate 400 construction jobs.

A further 220 workers will be needed to build Powerlink's transmission infrastructure that, as part of the new SuperGrid, will deliver the clean energy from MacIntyre Wind Precinct to households.

Queensland Energy and Jobs Plan community events underway



Pictured from left to right: EPW Energy division Principal Advisor Liz Roberts, Principal Policy Officer Candice Anderson with Director, REZ and Transmission Policy, David Wright at one of the stands at the community information session in Toowoomba.

Community information sessions for the Queensland Energy and Jobs Plan (QEJP) are underway.

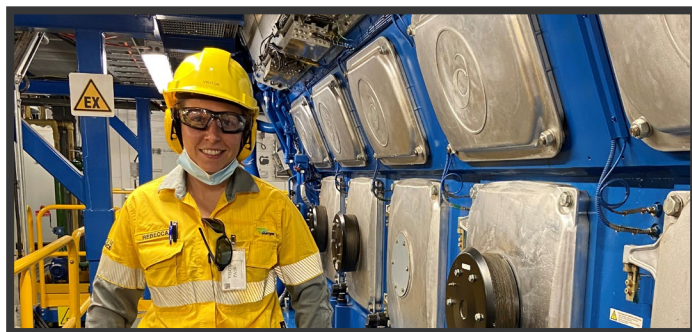
The Department of Energy and Public Works' energy team visited Toowoomba last month where they held a boardroom briefing with industry stakeholders and an information session for local residents to outline the key benefits of the plan.

At the briefing they discussed the plan's transformation pathway and explored the opportunities and challenges specific to the region. Manufacturing opportunities, investment and Queensland's transmission journey were key topics raised.

At the community session, residents explored information displays and heard from presenters. Attendees asked about jobs and training opportunities, as well as how the plan can attract people to live and thrive within the region.

When surveyed about how they 'feel about the future of energy', 70 per cent of the audience responded with 'optimistic' or 'excited'. Local communities will have further opportunities to have their say on the energy transformation with consultation on the draft Regional Energy Transformation Partnerships Framework currently underway. More regional community information events are planned in 2023. For updates visit the [QEJP website](#).

Rebecca is on a journey as lead engineer for Energy Queensland



Lead engineer Rebecca is responsible for developing and reviewing strategies and processes for Energy Queensland to mitigate major power outages.

It's a responsibility she values, particularly now the energy sector is undergoing rapid transformation.

"Until recently, the way we plan, design, build and operate the network has remained the same. But because of increasing rooftop solar usage and intermittent renewable generation on the distribution network, we are on a big learning journey to understand how to manage and operate a network with variable two-way power flows," Rebecca says.

Rebecca has the training and experience to tackle these challenges. She was attracted to STEM subjects at school and commenced a traineeship at a small electrical design firm, before completing a Bachelor of Engineering (Power).

"It's a very exciting time to enter the industry. If you want to work as an engineer, my advice is to gain as much on-the-job experience as you can."



Queensland's renewable energy targets



50%
renewable energy
by 2030



70%
renewable energy
by 2032



80%
renewable energy
by 2035

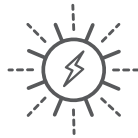


NET ZERO
emissions
by 2050

Queensland energy snapshot



3,025 MW
large-scale solar



4,250 MW
rooftop solar



731 MW
hydro and
pumped hydro



8,119 MW
coal



846 MW
wind



473 MW
bioenergy



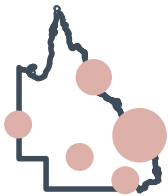
3,121 MW
gas



419 MW
other (including diesel)

Large-scale renewable energy in Queensland

(operational and committed since 2015)



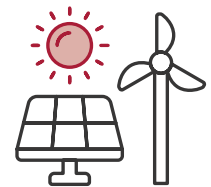
50
projects



\$10+ billion
invested



8,000
construction jobs



5,700+ MW
capacity

Renewable energy in Queensland



8,500+ MW
renewable capacity
(large-scale and small-scale
currently operational)



22.1%
from renewable
sources

*All figures except 'renewable sources' current as at 31 October 2022. 'Renewable sources' figure current November 2021 to October 2022. Construction jobs figure is an estimate.



www.epw.qld.gov.au



Energy – Queensland