

# Critical decarbonisation through responsible development



Gawara Baya will generate enough clean electricity to power more than 250,000 Australian homes, displacing around 1.2 million tonnes of carbon emissions from Australia's energy generation profile every year.

## Maximising benefit through early-transition

Gawara Baya is an essential early-transition opportunity for new, large scale clean energy generation that can be responsibly developed, grid connected via existing transmission infrastructure and producing power within the next few years.

New, large scale renewable energy projects must be brought online to progress time-critical global decarbonisation, and address the shortage of supply expected by energy retailers by 2025.

This means that in addition to supporting State, National and global decarbonisation objectives, Gawara Baya offers a sustainable solution for addressing energy supply shortages and reliability while placing downward pressure on power prices for Australian consumers.



**1.2m tonnes CO<sub>2</sub>** displaced from the Australian energy network every year



Clean energy to power **250,000** Australian homes.

## North Queensland wind A vital resource for Australia's decarbonisation

### Decarbonising Australia's energy market is central to addressing climate change.

North Queensland has a strategically critical role to play in Australia's clean energy transition as we work to address climate change.

A 2021 CSIRO study and the Australian Energy Market Operator Integrated System Plan both highlight the need for a significant increase in wind energy generation in Queensland to secure net

zero emissions by 2050.

The CSIRO study found wind in Queensland, specifically North Queensland wind, is significantly more abundant and reliable than in any other part of the country.

North Queensland's wind typically picks up in the afternoon and evening, which is a very different profile to wind resources elsewhere in Australia. This means that power can be generated from North Queensland

wind when there is low or no wind generation elsewhere, and when other forms of renewable energy, like solar, are coming off the grid.

The nature and profile of the wind resource in North Queensland means it is key for supporting Queensland's renewable energy needs over a 24-hour period, and for supplementing renewable energy consumption in other parts of the country.



## We are the *renewable* generation



To learn more about Gawara Baya, scan the QR code or visit [www.gawarabaya.com](http://www.gawarabaya.com)

Windlab is the 100% Australian grown renewable energy company born out of the CSIRO.

For 20 years we have used our world-leading science and globally recognised expertise to find, develop, construct and operate the top performing renewable energy projects in the world.

Today, we're fully integrated across the entire renewable energy value chain and we're putting all our resources behind developing the technology and infrastructure to make energy from polluting sources a thing of the past.