

# Getting energy right for customers, communities and planet



Aug 2021

Origin is a leading Australian integrated energy company with business activities spanning exploration, production, generation, wholesale electricity and gas trading, domestic and export sales and a growing renewable energy portfolio

**1.2 GW**  
renewable capacity




**>25%**  
renewables and storage capacity

**7.4 GW**  
existing generation capacity supporting renewables



**Flexible fuel supply**  
>4 million customers, delivering 30% of east coast domestic gas demand as well as export

**9 mtpa**  
Existing energy (LNG) exports



#### Exploration & production acreage

-  Origin upstream acreage
-  APLNG upstream acreage
-  Origin farm-in

#### Generation

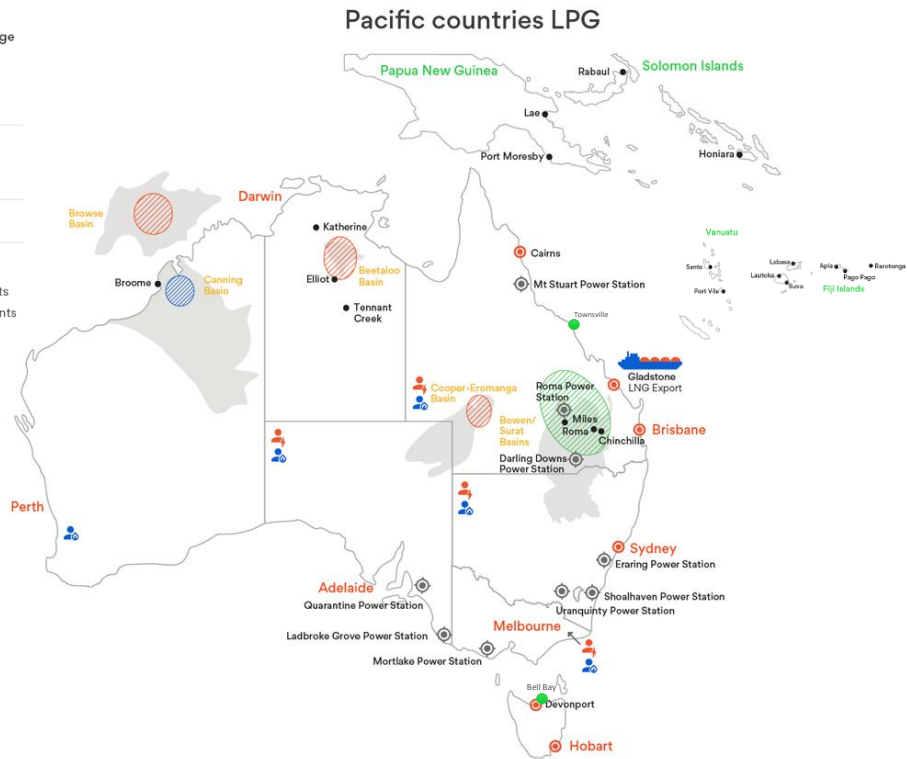
-  Power Stations
-  LPG seaboard terminal

#### Retail Electricity

-  Electricity customer accounts
-  Natural gas customer accounts

#### Future Fuels

-  Hydrogen/ammonia facility



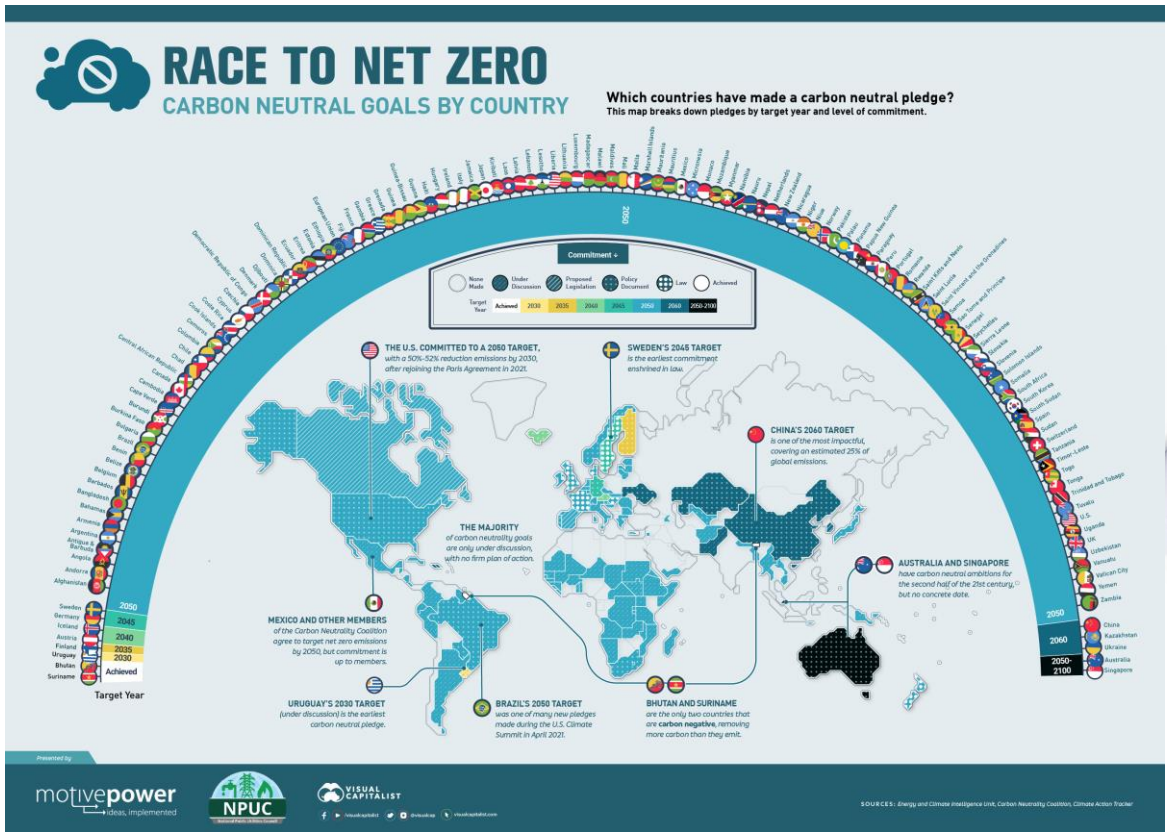
### Energy markets

- A market leading electricity and natural gas generator and retailer covering the east coast of Australia
- Over 20 years of experience in wholesale electricity trading supported by a flexible generation and fuel position and growing renewable energy capacity

### Integrated gas

- Trusted energy exporter to Japan and China with 37.5% shareholding in Australia-Pacific LNG (APLNG), Australia's largest coal seam gas (CSG) to LNG export project
- APLNG commenced full operations in FY2017
- Exploration and development prospects outside APLNG

# Decarbonisation targets driving demand



“Responding to climate change is no longer a constraint on economic growth.”

Yoshihide Suga  
Prime Minister of Japan



Europe has a goal of reducing its emissions by **80-95%** by 2050.

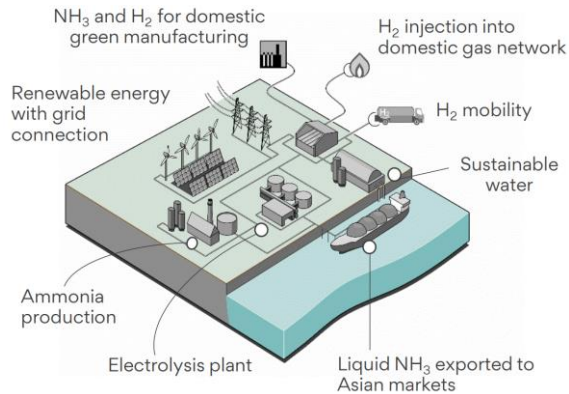
This means **near total decarbonisation** of the energy system.



# Bell Bay feasibility study with Tasmanian Government underway

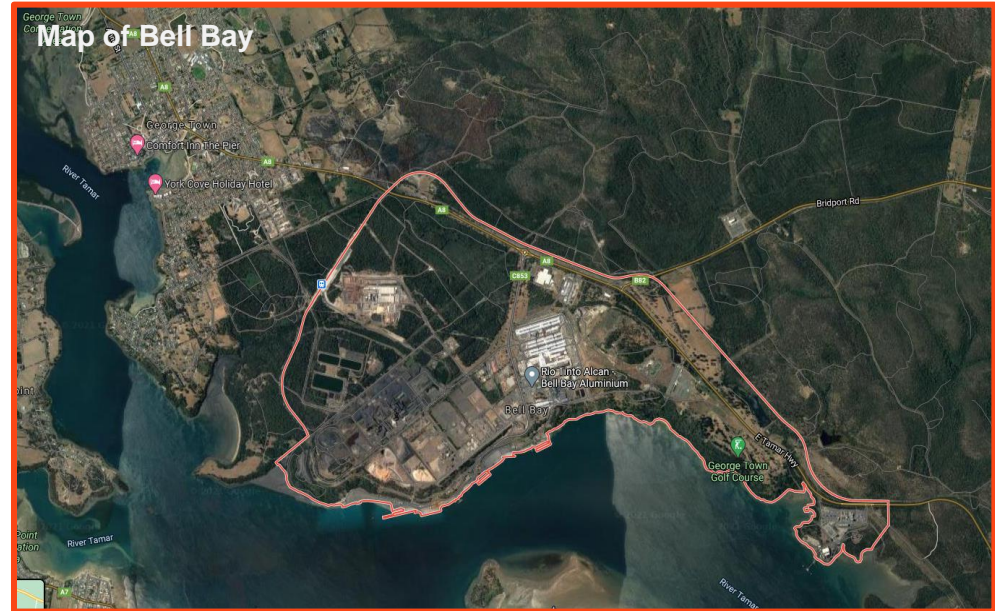
## Project Details

- >420ktpa ammonia export and domestic supply (ammonia and hydrogen available domestically)
- >500MW+ electrolyser



## Project Timing

Targeting FEED in CY2022

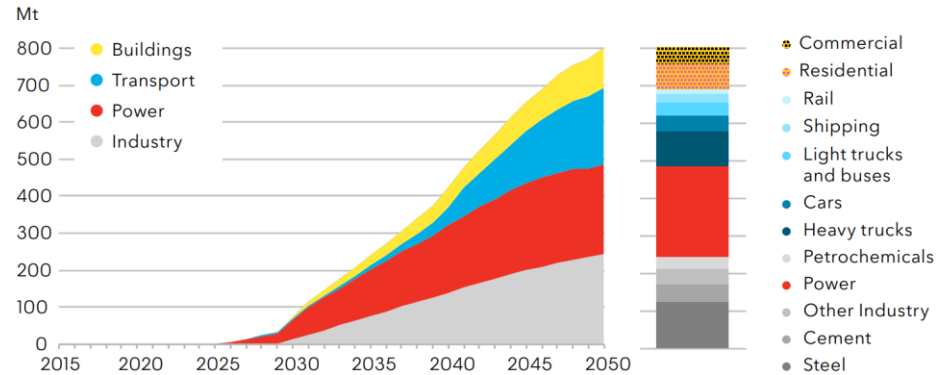


# What else are we working on?



# Global demand for hydrogen is projected to exist across multiple segments

- ✓ Emerging markets are expected to drive most of the future growth in the hydrogen market
- ✓ Demand growth is expected to be driven by steel production, shipping and heavy road transport
- ✓ Ammonia is a flexible fuel both in its pure form and as a carrier of hydrogen with a large addressable market
- ✓ Demand for pure ammonia is expected to grow exponentially in the maritime industry as well as in power generation (co-firing with coal) and industrial applications such as refrigerants



Source: BloombergNEF. Note: NCS-CEHP is NEO Climate Scenario: Clean Electricity and Hydrogen Pathway.

# A partnership approach





# Thank you

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