

BOC South Pacific Clean Energy

March 2021

1. About Linde & BOC
2. Hydrogen Credentials
3. Current Initiatives



1. About Linde

Linde – the leading industrial gases and engineering company

THE LINDE GROUP

→ Formed in 2018 with the merger of Linde AG and Praxair, Inc – two world-class companies with nearly 140 years of shared history and successful achievements

→ The leading industrial gases and engineering company. Two divisions Linde Gas and Linde Engineering

133 Billion USD\$
Market Cap today^{*)}



**One
Linde**

Uniting with a shared Vision, Mission and Strategic Direction, and demonstrating our Values and Behaviors in everything we do

2 million+
customers

Establishing a more diverse and balanced portfolio

100+

countries

Enabling strong, complementary positions in all key geographies and end markets

~80,000
employees

Achieving our full potential, individually and collectively

~\$15 million

charitable giving and sponsorships in 2018

Supporting our communities through contributions and employee volunteerism

6,500+

active patent assets worldwide

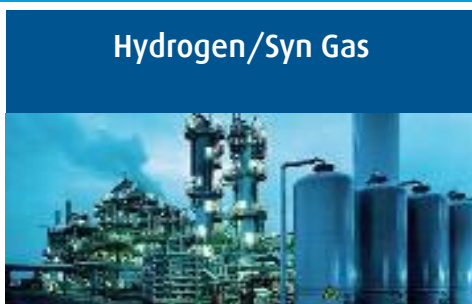
Leading with innovative products, solutions and technologies

1. About Linde

\$28 Billion Sales in 2019, 90% from Linde's own assets, \$2.2 Billion from Hydrogen



Linde Engineering The Leading Technology Provider

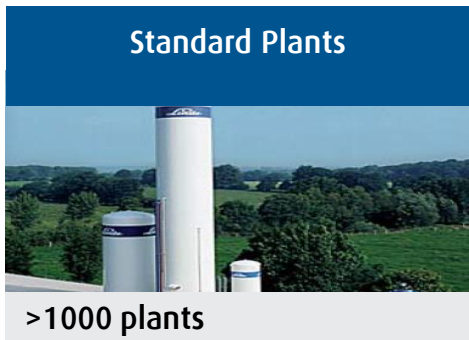


Linde Gas The Largest Industrial Gas Operator



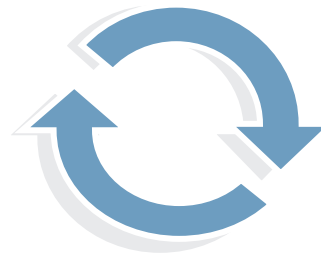
>158 plants (>8000 TPD H2)

>500 plants



>1000 plants

>5.000 engineers



>10.000 plant operators

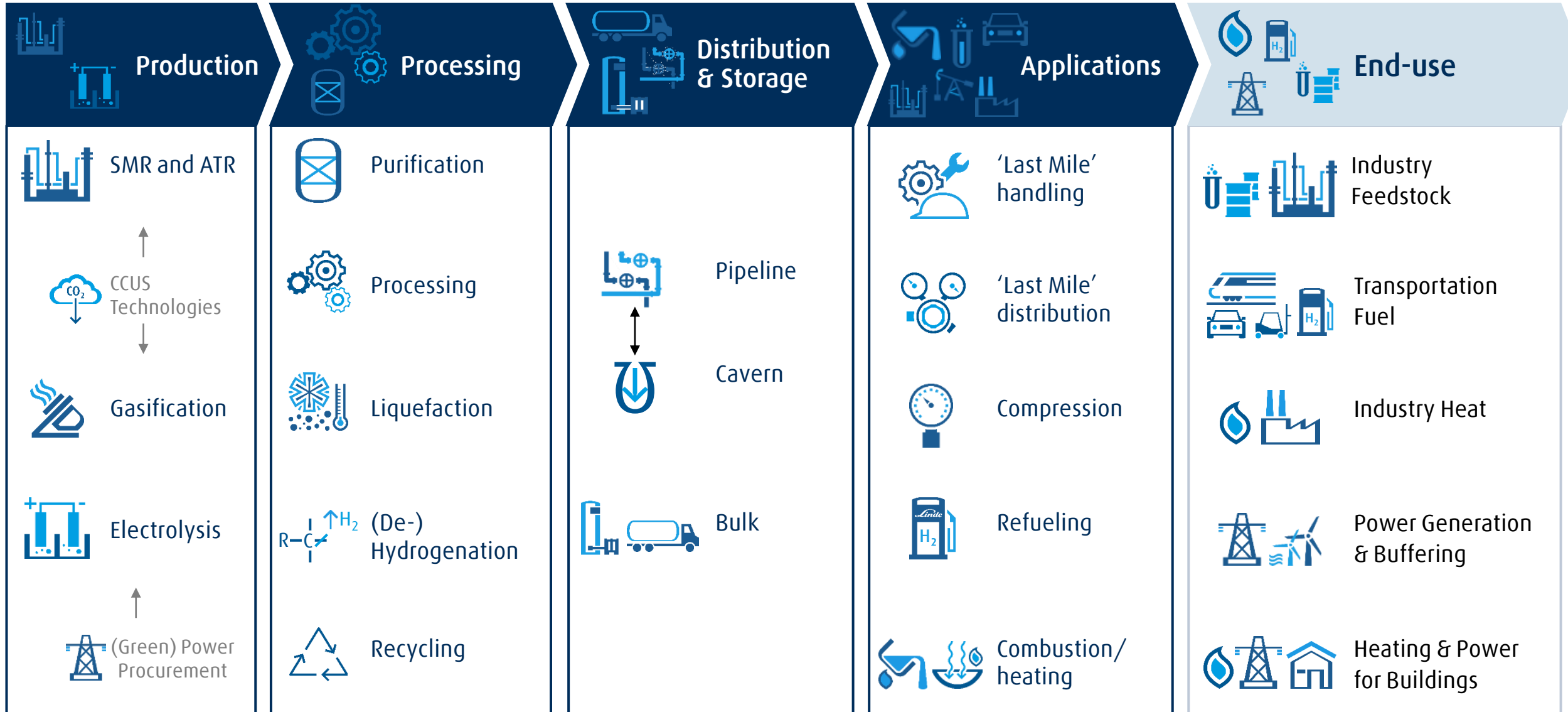
Leveraging Synergies

Making our world more productive



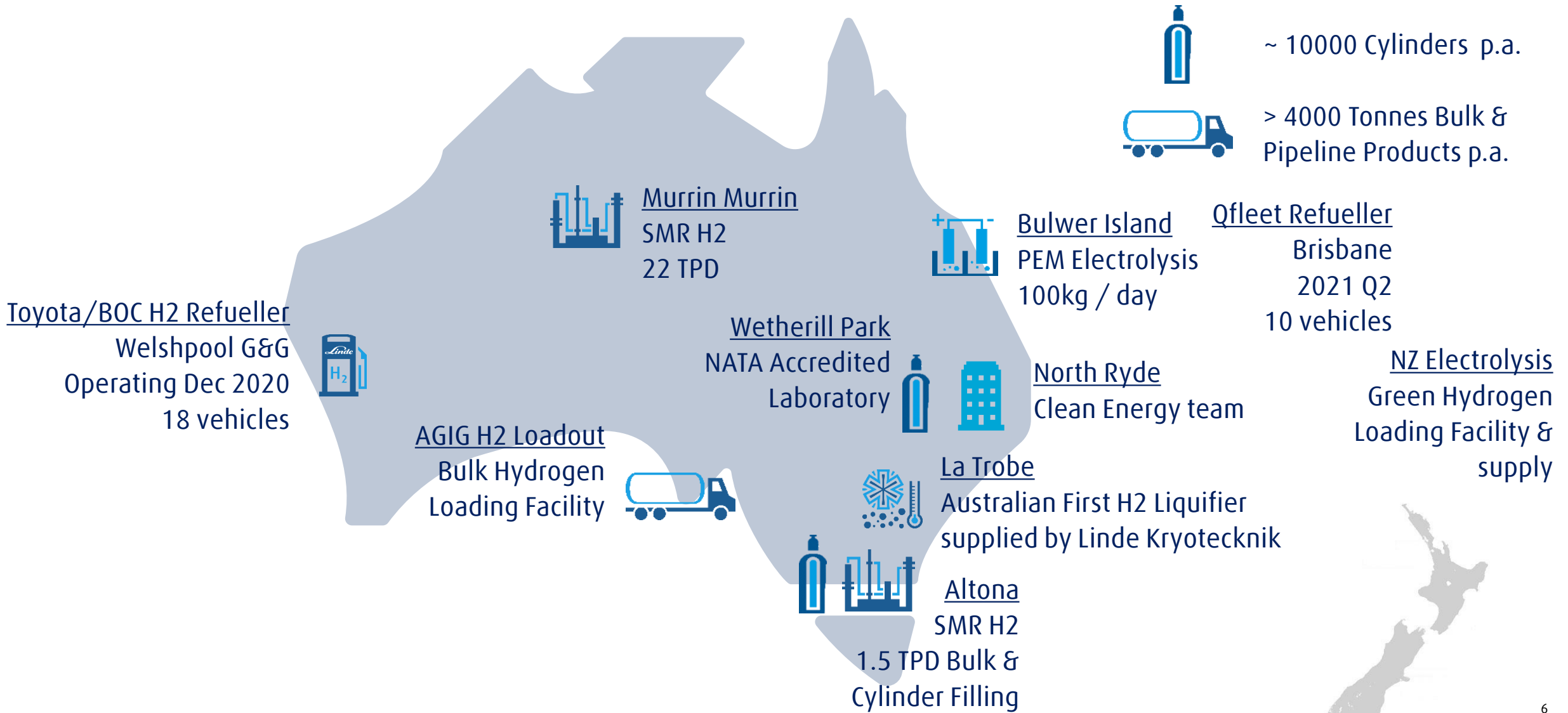
2. Hydrogen Credentials

Integrated know-how of Linde Gas and Linde Engineering in full hydrogen value chain



Our Hydrogen facilities

Linde Footprint in South Pacific



Hydrogen Energy

Developing Hydrogen Energy Precincts

THE LINDE GROUP

Linde



Key facts

- Connected to a wind-farm (8 MW)
- 6.3 MW peak electrolyzer stacks (each 2.1 MW)
- 800 kg storage (25 MWh)
- 200 tons target annual output from 2017 onwards
- Injection in local gas grid and multi-use trailer-filling
- Budget: total 17 m€, funding: ~50% (BMWi)

Objectives

1. Local grid integration by storing fluctuating renewable power
2. Provision of ancillary services in the electricity grid (including negative control reserve)
3. Testing and further development of megawatt class PEM electrolysis
4. Intelligent and efficient hydrogen conditioning, storage and handling, smart management structure
5. Research of effects of the increased hydrogen concentrations in the gas grid and end devices
6. Public relations and public acceptance



ENERGIE
PARK MAINZ



Current Initiatives

Mobility - Underway



Fortescue Future Industries

World first hydrogen refueller for operating 10 coaches transporting 3000 workers per day in the Pilbara region of WA



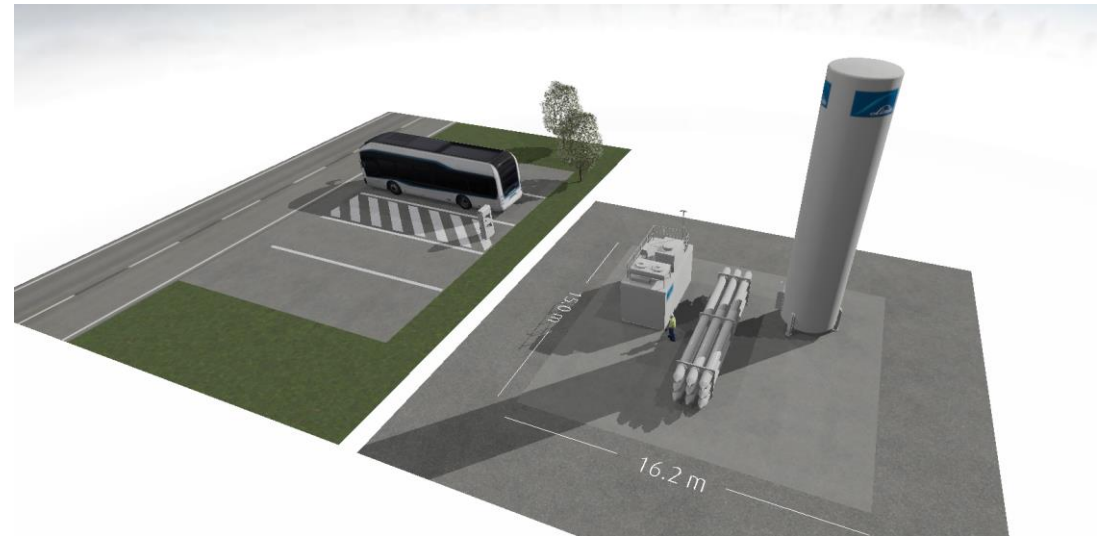
BOC Welshpool Gas & Gear

Refueling 18 Toyota Mirai fleet cars for customers including Toyota WA & ATCO Australia



BOC Brisbane Refueller

Servicing Queensland Government Fleet with with green hydrogen for up to 5 years in Brisbane. Plan to introduce buses / trucks



Toyota Ecopark Refueller Altona

First refueller within Australia capable of Car, Bus, Truck and Forklift Service

Opportunities for the Hunter

Liquid Hydrogen Refinery to Support Heavy Transport and Sector Coupling

