

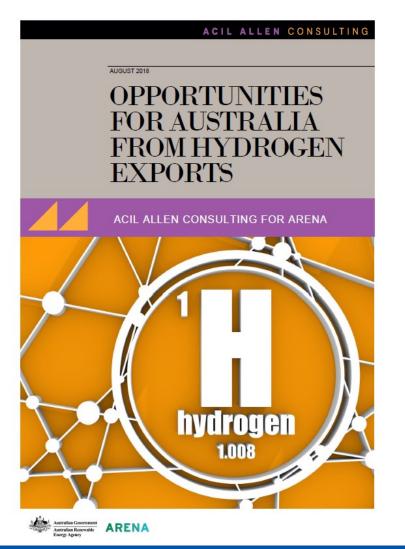
## **Green Hydrogen Developments – Australia**

Amy Philbrook, PhD Future Fuels and Renewables ATCO Australia

## Hydrogen in Australia



## Hydrogen in Australia



The Export Potential

- 2018 ACIL ALLEN
  - Could contribute \$1.7 billion per annum to the economy and provide 2,800 jobs by 2030
  - Australia is windy and sunny and fairly empty

### **Fossil Replacement**

- In 2016, Australia was the biggest net exporter of coal, with 32% of global exports
- 82% of Australian gas production goes to exports



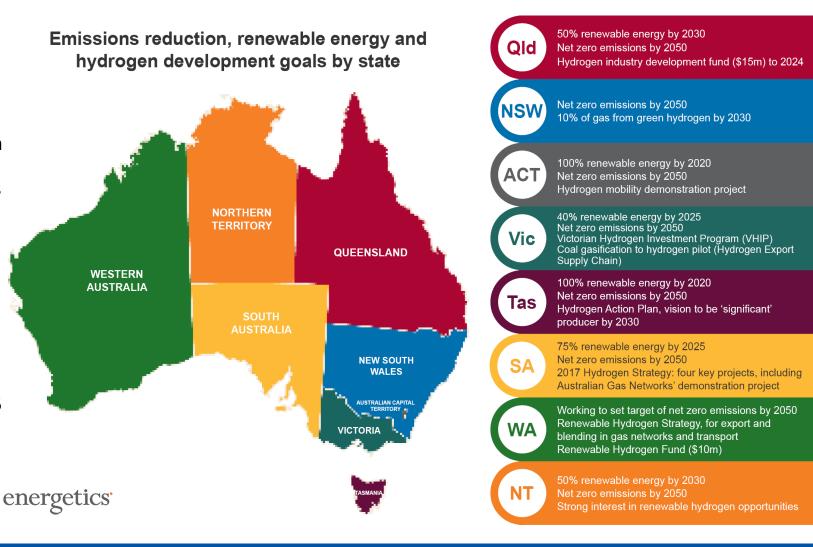
## Hydrogen in Australia

### Federal hydrogen strategy

- Target of under \$2/kg
  - Hydrogen Hub funding opportunities
  - ARENA and CEFC have prioritised hydrogen
- Targeting export market estimated 7,600 jobs and \$11 billion in GDP in 2050

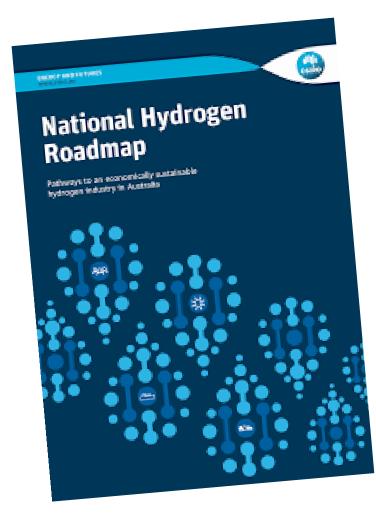
### WA Hydrogen Strategy

- The 2020 roadmap identified 26 initiatives
- Expressions of Interest (EOI) for its \$10 million
   Hydrogen Fuelled Transport Program
- Supporting Hydrogen Hub applications \$117.5 million
  - Oakajee
  - Pilbara





## Hydrogen Projects in Australia



### Projects

- Only a handful in operation (sub 2 MW)
- ARENA's 10 MW funding round
  - Three 10 MW projects supported
  - \$103 million of grant funding awarded
- Federal funding round Hydrogen Hubs
  - operation by 2025
  - \$464 million grant program



### RENEWABLE HYDROGEN DEPLOYMENT FUNDING ROUND

Conditionally approved \$103.3 million in funding to **YURI PROJECT** 3 commercial-scale hydrogen projects. **IN THE PILBARA** Í END **Engie Renewables** 0 M Australia At 10 MW, the electrolysers in these hydrogen plants will be **CLEAN ENERGY** among the largest ... END built in the world. H<sub>2</sub> **INNOVATION PARK** END ATCO Australia These projects will help progress Australia's pathway to achieving the Australian **HYDROGEN PARK** Government's goal of 'H2 under \$2'. MURRAY VALLEY

ARENA

Australian Gas Networks

## Hydrogen at ATCO

ATCO



33

## A GLOBAL COMPANY

# Throughout ATCO's 70 YEAR+ HISTORY

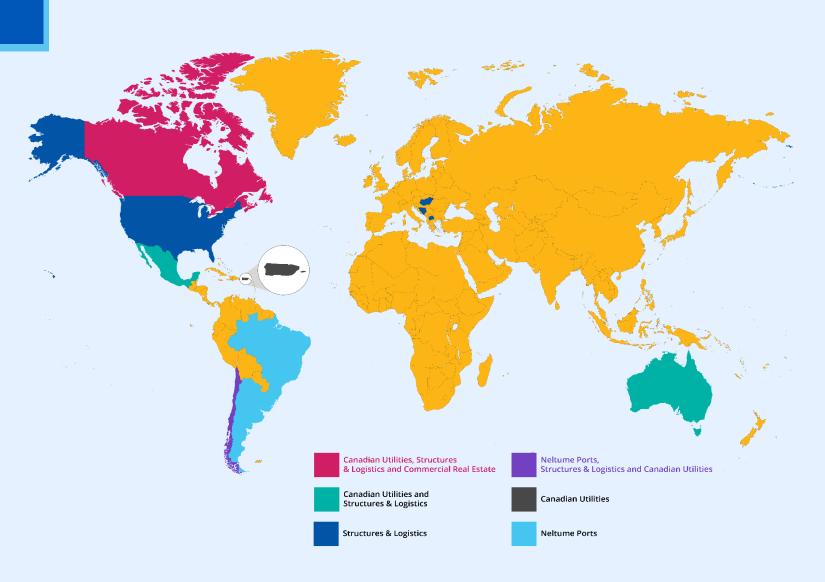
Part of the Australian community for **60 YEARS** 

Providing products & services in **100+ COUNTRIES** 

With over 6,500 EMPLOYEES

Assets of **\$22 BILLION** 

Market cap of **\$4 BILLION** 





### **AUSTRALIA – GAS DISTRIBUTION**

ATCO OWN AND MAINTAIN

## WA'S LARGEST GAS NETWORK



**MORE THAN** 

**14,500KMS** 

**OF PIPELINES** 



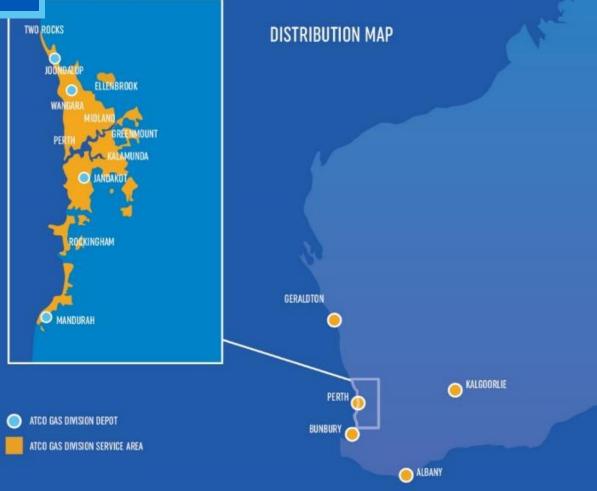
780,000

**CONNECTION POINTS** 

REGULATED & UNREGULATED NETWORKS

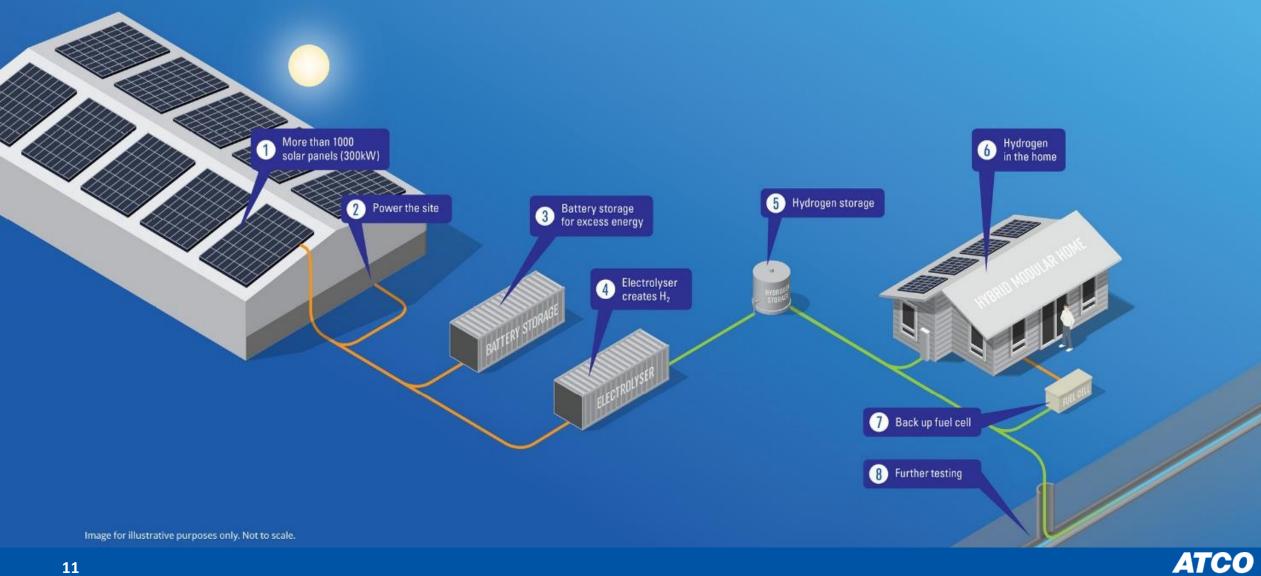








## **ATCO'S CLEAN ENERGY INNOVATION HUB**



## **CLEAN ENERGY INNOVATION PARK**

ATCO in partnership with AGIG construct and operate a 10 MW commercial scale green hydrogen production plant producing **4.0 tonnes of hydrogen per day** in Western Australia. The hydrogen produced will be trucked on a daily basis to the injection / customer transfer points.





### To date:

### Secured \$375K grant from WA Government

- Feasibility Study for CEIP 10 MW Electrolyser.
- Approximately 4 tons of green hydrogen per day.
- Builds on ATCO's CEIH experience.
- Modular design for expansion and replication.

### Secured \$28.7M from Australian Renewable Energy Agency

- Production aimed for Q1 2023.
- Offtake opportunities in industrial use, transport and gas network blending.



### **CLEAN ENERGY INNOVATION PARK**





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