



**SMART
ENERGY
COUNCIL**



**HYDROGEN
AUSTRALIA**
A DIVISION OF SMART ENERGY COUNCIL

Zero Carbon Certification Scheme

Ammonia Energy Conference 2021

Scott Hamilton 26 August 2021



Zero Carbon Certification Scheme – Overview

- Launched on Thursday 3 December 2020
- Industry-led, Guarantee of Origin style scheme
- Exclusively focussing on renewable hydrogen and derivatives



Zero Carbon Certification Scheme – Overview

- **A faster transition to a zero-emissions economy**
- **Must be produced from renewable energy not fossil fuels**
- **Aiming to certify from point of production – “Well to Gate” methodology**
- **Assessing emissions intensity of energy required for production, as well as emissions created through production of the hydrogen and renewable ammonia etc**





Founding Partners



ACT
Government



Queensland
Government



WESTERN AUSTRALIA

**COP26 High
Level Champions**





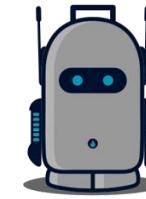
Founding Partners



Power Ledger



AMMONIA ENERGY
ASSOCIATION



G A S B O T



Advisors



Australian
National
University

Partner Initiative

Green Hydrogen Catapult





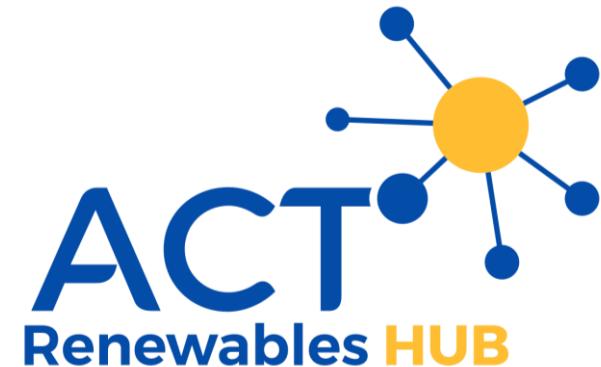
ACT Hydrogen Cluster

ActewAGL

evoenergy



Australian
National
University



Pilot Project – ACT Hydrogen Refuelling Station

- **Canberra's first H2 Refuelling Station (29 March 2021)**
- **Electricity provided from ACT (100% RE)**
- **Initial certification akin to Proof of Sustainability**
- **Comprehensive audit completed by Point Advisory**
- **Test cases being completed with German Energy Agency (dena) & ACT NERA Hydrogen Cluster**



Pre-certification Yara Green Ammonia plant Pilbara, Western Australia

- ARENA Grant January 2020 + WA Gov funding
- 10 MW Electrolyser with on-site solar to produce
- ~30K tpa renewable H₂ (Stage 1)
- Capacity to produce renewable ammonia (tCO_{2-e}/tNH₃)

“The initiative will provide guarantees to our customers in Asia, Australia or Europe that the quantities supplied have been produced according to set standards and will inform the customers about key attributes such as renewable origin and greenhouse gas footprint.” – Yara International





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Thank you!



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