# Zero Carbon Certification Scheme **Overview and Progress**

**3 NOVEMBER** 2021



#### OVERVEIW OF THE SCHEME

- Launched on Thursday 3 December 2020
- Industry-led, Guarantee of Origin style scheme
- Exclusively focussing on renewable hydrogen and derivatives
- Need to support the industry and prompt a faster transition to a
  - zero-emissions economy
- Aiming to certify from point of production "Well to Gate"

methodology







### ZERO CARBON CERTIFICATION SCHEME FOUNDING PARTNERS























Power Ledger

...

В

Ο

Т

S

Α

G





Green Hydrogen Catapult



## UN COP26 High Level Champions







#### Background

- ACT first H2 Refuelling Station (March 2021)
- Electricity provided from ACT grid (100% RE)
- Audit completed by Point Advisory (Oct 2021)







Factors for this facility

- Approval by local authority
- Simple process—produce, compress, store, sell
- Grid electricity, REI00 equivalent
- Grid water supply
- One point of H2 supply, easily tracked







#### Certification

- The audit is one part of the process
- ISO 17029 is standard of choice
- Verification of the truthfulness of the claim about

production arrangements

• Validation of the plausibility of the claim about future

sale of renewable H2 under agreed conditions

• Agreed procedures, rather than assurance







Claim – what is considered

- Approval of facility at Fyshwick, Canberra
- Arrangements in place for H2 feedstock: water &

electricity provided from ACT grid (100% RE)

- Nameplate capacity aligns with claimed production capacity
- Operation arrangements for planned certification period

align with manufacture of renewable hydrogen







#### Conclusion

- Approval: Development Approval granted
- Energy supply: 100% RE from ACT grid (RE100

equiv.)

- Feedstock: 100% consumer potable water
- Production capacity: up to 7,884 kg of H2 pa





• Report provided to Smart Energy Council as

certification authority

- Certification includes Deed and probity checks
- Certification decision imminent







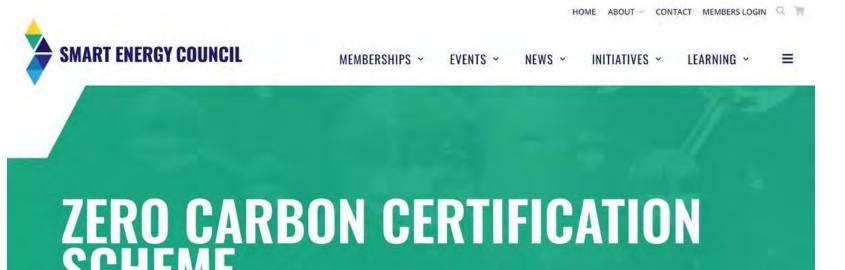
#### Next Steps

- Monitoring, reporting and audit
- Level of ambition & interaction with other

#### standards & schemes

#### Next Steps

- Work by other parts of the certification industry
- Other certification activities, methodologies &
  - frameworks (GO certificates; EU RE Directives)









#### Yara Green Ammonia plant Pilbara, Western Australia

- Pre-certification
- ARENA Grant January 2020 + WA Gov Funding
- IOMW Electrolyser with on-site solar to produce
- ~30K tpa renewable H2 (Stage I)

"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













