

Annual General Meeting

Vision 2023

Bacchus Marsh Project

18 November 2022

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COLDry – Focus on Commercial Demonstration





COLDry – Focus on Commercial Demonstration

In 2022 ECT has been addressing many of the technical risks associated with COLDry, such as:

- An equipment scale increase of up to 10 times from the previous pilot plant
- Processing equipment integration
- Increased design efficiency of the conditioning system
- Meeting production pellet quality standards
- The site supporting new infrastructure

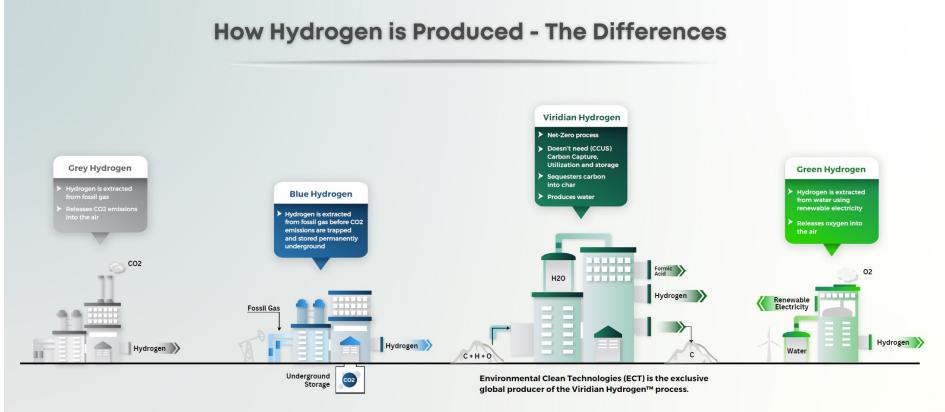
ECT is now focused on the commercial demonstration and integration of its highly efficient, patented drying technology.

Our aim in 2023 is to:

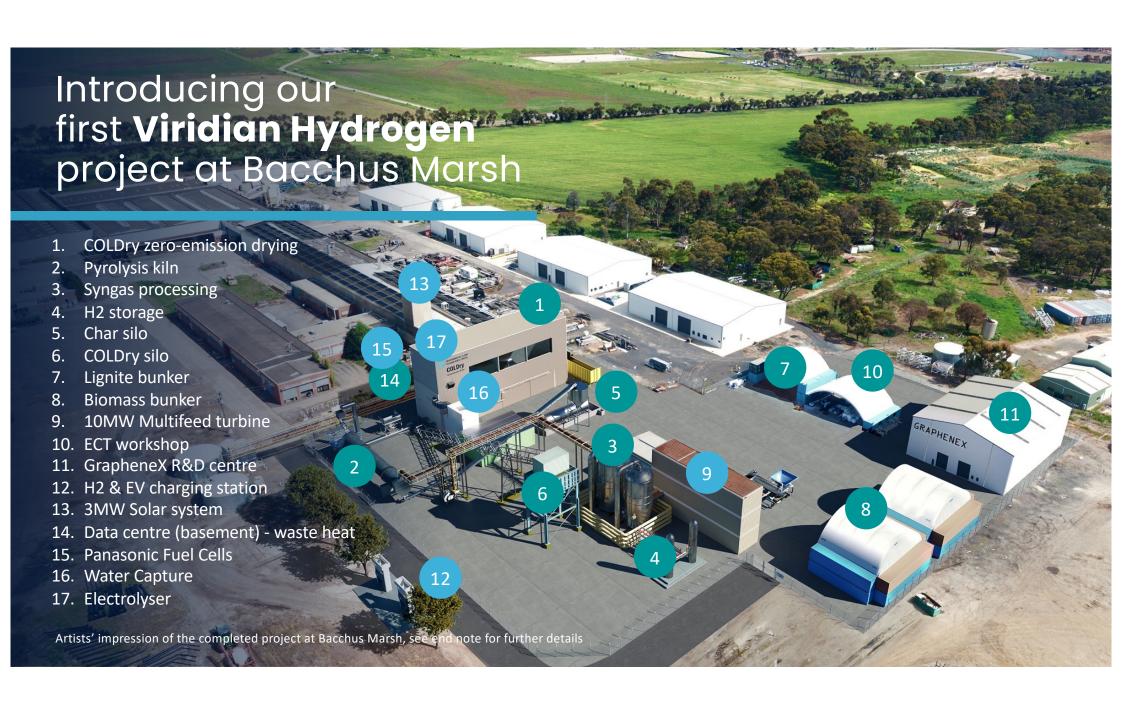
- Add downstream hydrogen and char production (Phase 2)
- Finalise and fix key inputs like electricity, waste heat and feedstock
- Add collaborative partnerships (like Optimal, Panasonic, GrapheneX, and GDT)
- Establish off-take partnerships



Better than blue. Cheaper than green.







Viridian Hydrogen: Environmental Credentials

- Lower CO₂ emissions than "blue", "turquoise", and "grey" hydrogen
- Carbon is sequestered into char which is then used to improve soil health
- Water captured from COLDry process
- Net zero hydrogen
- Further environmental enhancements via:
 - Solar PV array to generate renewable electricity
 - Electrolyser to consume renewable power and water from COLDry to produce green hydrogen

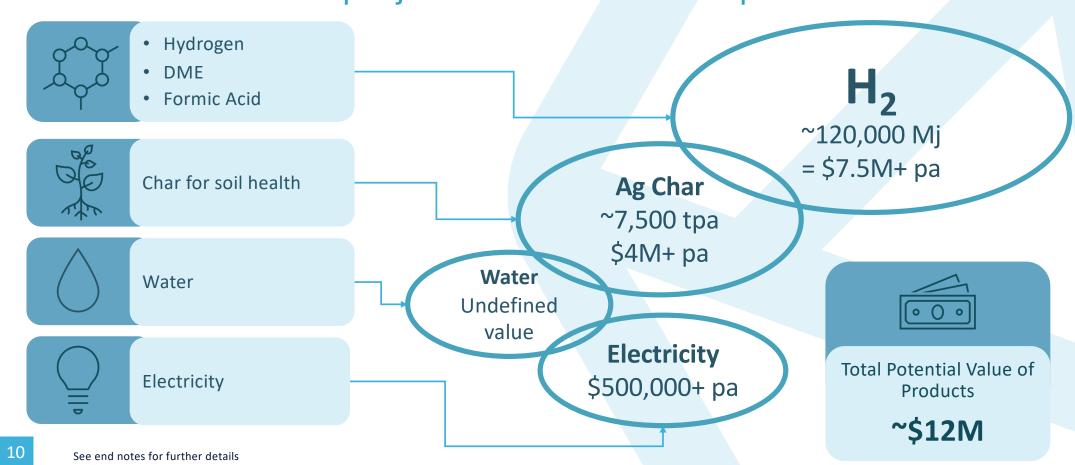
Our Viridian Hydrogen process allows for cost-effective integration with renewables to deliver the best of both worlds – cost-effectiveness and net zero emissions

Viridian Hydrogen project Commercial Inputs

- Cost-effective electricity with co-generation
- Multiple generation sources allow for flexible despatch and load management inside an on-site microgrid.
- Waste heat partnering with industries of the future (like data centres) to deliver zero-cost waste heat
- Lignite acting as a reliable and stable chemical baseload to ensure efficient, steady-state operation.
- Biomass targeting biomass waste that pays a disposal fee.

Viridian Hydrogen

Bacchus Marsh project Commercial Outputs and Values







"ECT is only as strong as its people. Our people are our staff, our shareholders, our customers and our partners. These are our stakeholders. We hope that with strong cultural leadership backed by openness and transparency we build a stakeholder network of trust, commitment and courage. ECT aims to embody this in our ESG principles."

Glenn Fozard Managing Director

ECT bridges the gap between today's high emissions use of resources and tomorrow's net zero emissions world.

ectitd.com.au

End Notes

- Slide 7 Artists' impression provides a vision for the Bacchus Marsh site:
 - 1: COLDry demonstration plant is installed as part of Phase 1 and currently proceeding through wet commissioning
 - 2-5: components of Phase 2, in the design and procurement phase but yet to be installed
 - 6: COLDry storage silo is installed and functional
 - 7 & 10: Lignite storage bunker and plant workshop, installed
 - 14: Waste heat currently being demonstrated at small scale
 - 8, 9 & 11-13, 15-17: components of Phase 2, yet to be installed
- Slide 8 Commercial Outputs and Values Assumptions:
 - COLDry plant output capacity of 25,000-30,000 tonnes per annum
 - Hydrogen: 1000 tonnes at a market value of ~AU\$7.5 per kg
 https://www.pv-magazine-australia.com/2022/06/01/green-hydrogen-price-may-drop-to-7-5-kg-by-2025/
 - Ag Char: ~7,500 tonnes at an estimated market value of \$530 per tonne

 Based on internal estimates drawn from similar product specifications in the market e.g. www.farmchar.com.au.
 - Electricity: Estimated savings and grid sales based on an average rate of \$0.15c per kWh