

ASX ANNOUNCEMENT

27 February 2024

INVESTMENT UPDATE - CLEAN HYDROGEN TECHNOLOGIES CORP

HIGHLIGHTS

- **INVESTMENT UPDATE - CLEAN HYDROGEN TECHNOLOGIES NOW MOVED FROM PROOF OF CONCEPT TO PRODUCTION**
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MEC Resources Limited ("**MEC**" or the "**Company**") (ASX:MMR) highlights the following information in relation to its 38.27% investee company, Advent Energy Ltd ("**Advent**").

As previously announced in the Company's quarterly report on 31 December 2023, MEC investee Advent now has a 3.9% interest in Clean Hydrogen Technologies Corp ("**CHT**").

CHT cracks hydrocarbons from natural gas using a process called thermo-catalytic pyrolysis which combines heat, a catalyst and has no oxygen. CHT's feedstock is natural gases hydro-carbons. Importantly there are no CO₂ emissions from the core process since the carbon becomes a solid carbon composite product, thus rendering natural gas a clean (no CO₂ emissions) source of 2 products, turquoise hydrogen and solid carbon composite.

What is Turquoise Hydrogen?

Turquoise Hydrogen is the industry term used for hydrogen sourced from natural gases hydrocarbons using thermo-catalytic pyrolysis.

What is Carbon Composite?

Since there are no CO₂ emissions the carbon becomes solid in the form of a fine black dust type material which in CHT's case is a carbon composite made from CNTs (Carbon Nanotubes) and Alumina (ceramics). Carbon nanotubes have unusual mechanical properties to reinforcement their Alumina composite, acting as a toughening agent. CNTs have a tensile strength greater than steel, conductivity greater than copper and thermal dissipation greater than diamonds. They also resist corrosion and fatigue (ref: <https://www.assemblymag.com/articles/93180-can-carbon-nanotubes-replace-copper>).

Next Steps for CHT

CHT are next scaling their carbon composite and hydrogen production.

David Breeze (Managing Director) authorised the release of this announcement to the market.

For further information please contact:

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