

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

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.

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