



22 February 2024

Australian Securities Exchange Limited
10th Floor
20 Bridge Street
SYDNEY NSW 2000

Dear Sir/Madam

INVESTMENT UPDATE - CLEAN HYDROGEN TECHNOLOGIES NOW MOVED FROM PROOF OF CONCEPT TO PRODUCTION

Clean Hydrogen Technologies Corp (CHT), a 15.6% and 3.9%, BPH and Advent Energy Limited investment respectively, has moved from proof of concept to production.

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.

David Breeze
Executive Director