

Investing in the Future Fuel

Developing a groundbreaking green hydrogen production system



Hydrogen is essential to combatting climate change

- Green hydrogen has almost limitless potential
- Hydrogen fuel is clean, flexible, and energy-efficient
- Hydrogen is best positioned to displace fossil fuels – especially in transportation - producing water instead of CO₂
- Hydrogen fuel cells generate electricity from an electrochemical reaction – much like batteries
- Green hydrogen uses *renewable energy*, separating hydrogen from oxygen in water (H₂O) by electrolysis

The greatest challenge to widespread adoption of green hydrogen is driving down the cost of production....

...HFI is a developer of proprietary green hydrogen production systems which the directors believe will materially lower the cost of green hydrogen production.

The Hydrogen Council estimates by 2050...



Global Hydrogen Market



Annual CO₂ Abatement



Global Energy Demand Met By Hydrogen

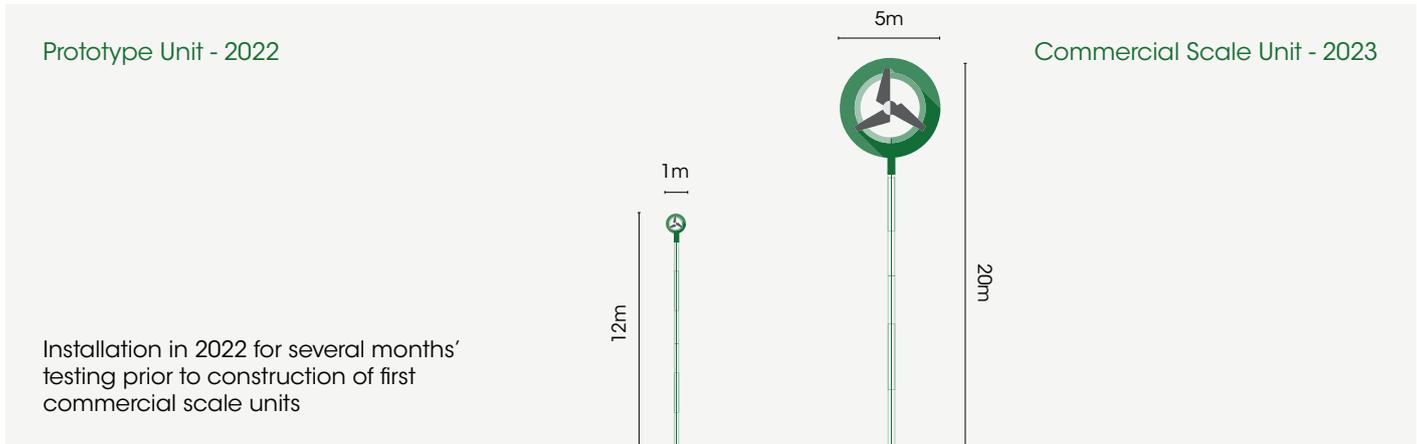
Our wind-based system

- Aims to generate hydrogen for under \$2/kg – significantly lower than other green hydrogen production systems ranging from \$4 to \$6/kg
- Smaller, quieter, safer, more efficient alternative to existing open rotor wind turbines - uses advanced aerodynamics and rotor blades, and smart hydraulic drive system
- Reduces weight and cost, with simplified installation and maintenance and standardised transportation
- Aims to achieve significant increase in energy output, with up to 50% reduction in cost of electricity generated, compared to open rotor wind turbines enabling low cost green hydrogen production
- Intention to incorporate hydrogen compression and energy storage technology
- Aims to generate hydrogen from a choice of feed stocks including waste, contaminated, saline or fresh water - can be operated in a variety of settings, including offshore, mining, and industrial



Development progress

- Independently verified wind tunnel testing undertaken
- Utilising data generated in testing and simulations in preparation for installation of test system in real world conditions
- Flow-testing speed of wind through turbine and improving electrolyser efficiency
- Construction of automated tower under way for outdoor installation during 2022



Intellectual Property

Development activities are being conducted through our wholly owned subsidiary HFI Energy Systems Limited (HESL). HFI has agreed to commit a minimum of US\$1 million to the development of the test units and the economic interest of all IP developed by Tim Blake and HESL will be split 51% to 49% between HFI and Tim, respectively.

Our Team

Daniel Maling, Non-Executive Chairman

Daniel Maling is a member of the Chartered Accountants of Australia & New Zealand with over 20 years of senior corporate and commercial management experience primarily in the natural resource and technology sectors.

David Ormerod, Executive Director

David Ormerod is an accomplished geophysicist with extensive experience in the commercial and technical facets of the energy industry. He has been involved in dozens of onshore and offshore oil and gas projects over the last 30 years.

Fungai Ndoro, Non-Executive Director

Fungai Ndoro is an experienced corporate financier who specialises in working with growth companies within the London market. She has executed the structuring and launch of several companies in the resources, technology and life sciences sectors.



Tim Blake, CEO, HFI Energy Systems

Tim has considerable experience in the development of efficient turbine systems, an area in which he has specialised for over a decade and written multiple patents. Prior to working on the development of turbine systems, Tim spent numerous years, and built a niche and highly regarded network, in the motorsport and transportation industries, working alongside companies including Lexus/Toyota, General Motors, and Airbus.

Daniel Maling
Chairman

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