



I would like to bring to your attention a science breakthrough that achieves self-sustaining hydrogen production and electricity generation.

A unique, emerging technology that accelerates natural ionic redox reactions between low cost bi-metals with exceptionally low metal decay. Generating bulk clean Hydrogen with an efficiency 50x greater than conventional electrolyzers.

The method is considered by many to be a single-bullet solution to clean energy, zero emission fuels, and industrial processes. A flexible, scalable technology that enables game-changing application, once considered impossible.

A Coefficient of Performance (CoP) well in excess of 2000% means the output energy is much greater than the input power. Enabling large scale, on-site hydrogen production and electricity generation.

Producing more green hydrogen per kWh (*less than 1.2kWh/kg/H<sub>2</sub>*) than conventional electrolyzers (*Typically 60kWh/kg/H<sub>2</sub>*) and a record low **\$0.34/kg** of hydrogen.

With less than 5% of the hydrogen generated feed back through a fuel cell, the **Ion Accelerator** achieves self-powering hydrogen and electricity generation at any location. On-site production eliminates complex gas storage and transportation.

### Application include:

- Micro power generation. The ability to scatter 5 to 50kWh small scale power generators at any location throughout the grid and sell power back to the grid 24/7 in all weather conditions including peak hours.
- Supporting EV transportation with micro electricity generation charging stations.
- A method of replacing the coal, oil or natural gas burners in fossil fuel stations to hydrogen fueled burners and gas turbines.
- A renewable energy storage method at any location on the grid.
- Commercial fuel cell marine vessels fueled by sea water while underway.
- Self-powering hydrogen production at any fuel station. Parallel with generating grid electricity, overcomes the chicken/egg scenario stalling current hydrogen fuel supply infrastructure.
- Because hydrogen is the main building block of most chemicals and fuels, a technology that produced hydrogen efficiently is considered to be bigger than the discovery of oil.

To secure a successful rollout of this game-changing, highly disruptive technology, H2IL is focused on technology acquisition rather than in-house manufacturing. Our objective is to assign the technology to a major multinational company (or group thereof) with the financial strength and international presence to take it to the next level.

I am endeavoring to reach out to all major companies to gauge their level of interest. Should your company wish to look further into the technology, please respond accordingly.

Best regards,  
David Hendrick  
H2IL Presenter