



CTI HYDROGEN

Integrating **CTI** driven RF as the energy input for a methane pyrolysis reactor in turquoise hydrogen production could result in the cleanest, most flexible, and most economic hydrogen globally.

THE PROBLEM

Low-cost, distributed hydrogen production does not exist but is required to enable new use cases.

- Steam methane reforming (SMR) is low-cost but centralized, requires costly transportation, and requires carbon capture to reduce emissions
- Electrolysers are modular, but require large amounts of electricity and are high cost per kg of H₂

THE SOLUTION

Turquoise Hydrogen via **CTI** powered Methane Pyrolysis.

- Flexible, scalable, distributed low-cost production method with **near-zero emissions**
- Zero fresh water required, resulting in zero wastewater
- The Acceleware/Aurora Hydrogen collaboration project is currently underway, and is expected to be the most efficient, clean, and scalable hydrogen production process designed to date.

Clean Tech Inverter (**CTI**)

Acceleware's field-proven, proprietary industrial heating technology platform can enable the decarbonization of multiple industrial heating processes via highly efficient delivery of radio frequency energy.

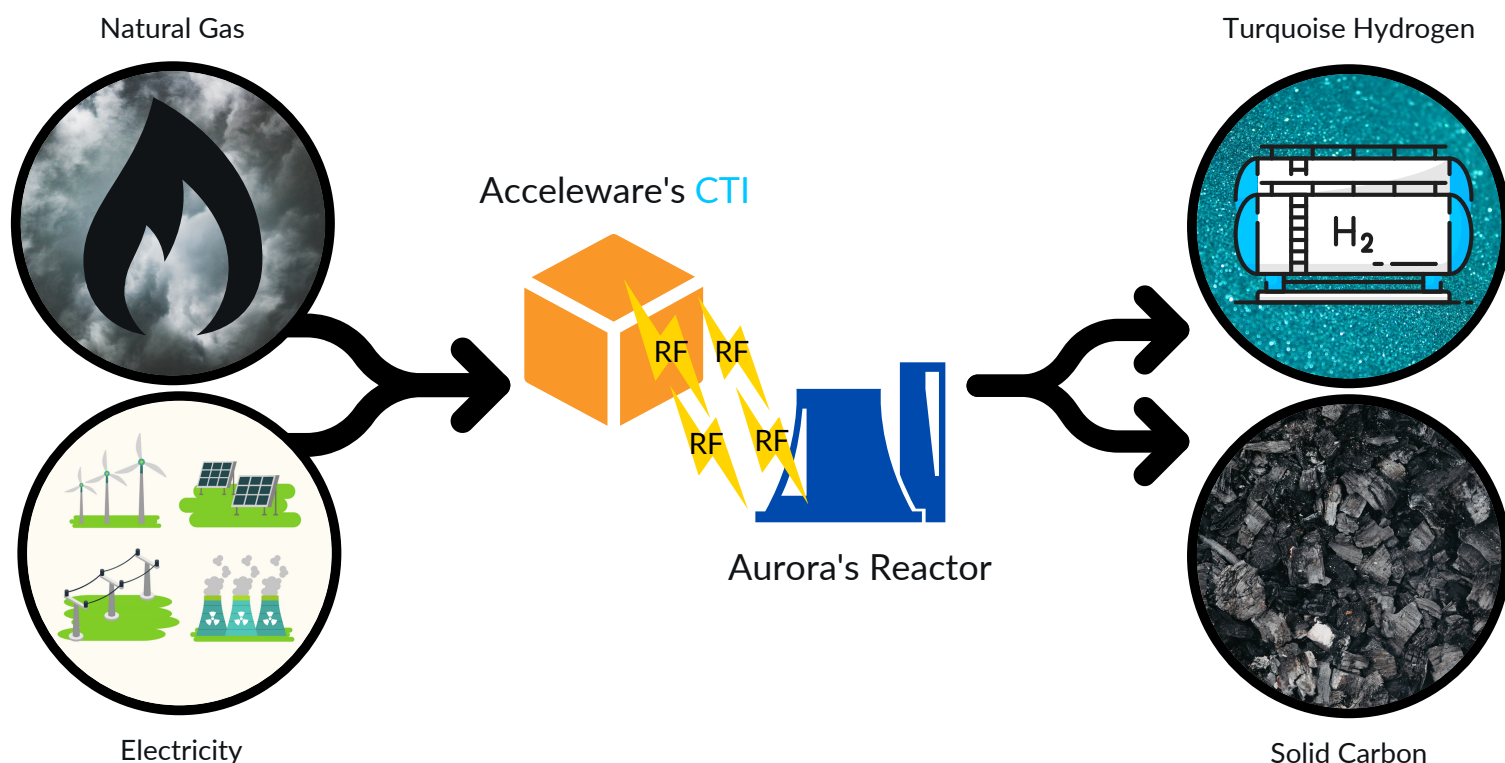


What Does **CTI** Do?

The **CTI** very efficiently converts electricity to radio frequency (RF) energy. It is capable of operating at 20 kHz to 120 kHz and at a power range from 100 kW to over 10 MW. This provides a rapid path to scale hydrogen production to industrial levels of 20 tonnes /day at 10 MW while maintaining unparalleled energy conversion efficiency.

The power of the **CTI** heating 'engine' could allow for significant improvements to a pyrolysis reaction since **CTI** produced RF energy could provide conversion efficiency and cost advantages over other energy sources.

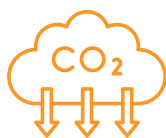
The Acceleware/Aurora Hydrogen Solution



Benefits



Lowest
potential \$/kg
H₂



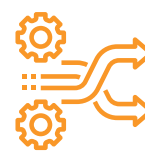
Zero direct GHG
emissions



Zero fresh water
requirements



CTI scales to 10 MW,
which could produce
20 tonnes/day H₂



Deploy anywhere
natural gas available,
converting it to H₂ at
point of use

FOR FURTHER INFORMATION CONTACT:

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