



Limitless Applications

The Hydrogen Conversion System (HCS) produces hydrogen gas to feed a boiler and dynamically control heat in buildings. For the initial commercial application, MMP has installed the HCS and boiler units in wastewater treatment facilities where data is being collected and evaluated.

The next phase is to work with a generator manufacturer to develop a prototype for electrical generation. The possibilities for commercial energy applications are limitless.



DiriGoHydro H220

Hydrogen Conversion System (HCS)

Maine Manufacturing Partners' new Hydrogen Conversion System (HCS) is a mobile unit that produces renewable hydrogen gas on-demand in any facility where it is needed. DiriGoHydro H220 converts low-cost water (wastewater, seawater, or tap water with sodium chloride) to hydrogen gas and requires less energy than today's electrolysis. Now green hydrogen energy is more accessible and affordable than ever.

Better and More Efficient than an Electrolyzer

DiriGoHydro has all the features and benefits of an electrolyzer without the high energy demand. In contrast to standard constant current (DC) electrolysis, MMP's H220 technology uses an innovative pulse modulation system that requires less energy to split the water molecule.

The system operates with a pulsed current in short, microsecond frequencies greater than 10,000 per second. Rapid pulsing voltage reduces internal resistance, and in some cases, improves overall efficiencies by up to 25%. The integrated unit includes a pulse generator, a simplified electrolysis cell, and a gas/water separation filtration.

The cost of the wastewater, seawater or tap water in the MMP system is minimal compared to preconditioned water in an electrolyzer. These differences, combined with the benefit of a simplified electrolysis cell, have the potential to cut energy costs.

Safe, Environmentally Friendly, Affordable Technology

Demand for energy has increased steadily over the past century and will continue to grow as global population and standards of living rise. It is a balancing act to curb carbon emissions, protect the environment, and provide power cost-effectively and efficiently.

The MMP DiriGoHydro H220 technology produces safe, affordable, and effective hydrogen gas that is more environmentally friendly, accessible, and affordable than other fossil fuels, offering a pivotal contribution to reliable carbon-free technology.

