

Power to Gas

Megawatt Class Series Electrolyzer Stack Platform

provides power-to-gas facilities with the smallest footprint and lowest installed capital cost in the industry today



A convergence of industry drivers including increased deployments of renewable generation combined with the high cost of managing excess grid power are creating rapid growing interest in megawatt (MW) grid-scale energy storage solutions.

Hydrogenics is pioneering Power-to-Gas, an innovative energy storage solution using water electrolysis that integrates intermittent renewable sources of generation, converts surplus electricity to produce hydrogen, and leverages the attributes of the existing natural gas infrastructure. This energy storage system converts renewable generation when it is not needed into renewable power, fuel or heat where and when it is needed.

Hydrogenics is revolutionizing Power-to-Gas with the introduction of its next generation high pressure electrolyzer technology.

The MW Class Series electrolyzer stack platform applies Hydrogenics' innovative proton exchange membrane (PEM) technology to provide power-to-gas facilities with unprecedented high-overload capability, best-in-class dynamic operating performance and industry leading efficiencies.

The MW Class Series provides power-to-gas facilities with the smallest footprint and lowest installed capital cost in the industry today with input power ranging up to 1.5 megawatts (MW) in a single stack module. Hydrogenics' proven parallel stack architecture provides the MW Class Series with the ability to connect many stack modules together for multi-megawatt power-to-gas plant designs.

The MW Class Series stack platform offers an unmatched level of power density, a measure of the amount of input power compared to the platform's size or footprint, which significantly reduces the overall capital and installation expense of the power-to-gas plant.

Utility customers have been looking for megawatt scale energy storage solutions that deliver maximum performance and efficiency at the lowest possible cost. Hydrogenics has listened to utility customers' needs and with the introduction of the MW Class Series platform is becoming the partner of choice for power-to-gas projects.

We're Ready.

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