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## HYDROGEN FUEL CELL POWER PLANTS

2023 VER.1.0



## POWER PLANT DEPLOYMENTS

### ► 2MW Combined Heat & Power (CHP) Plant

The fuel cell CHP system provides up to 2MW of electrical power and approximately 7GJ/h of heat for an industrial complex.

This delivers significant economic benefits, annually reducing electricity purchases by up to 16GWh and unwanted emissions by up to 10,000 tonnes.



### ► 200kW Fuel Cell Power Plant

Horizon supplied a 200kW power plant for an industrial complex in South Korea, utilising waste hydrogen from the chemical operations in the complex as fuel.

The power plant is designed to operate on demand, and provides a clean backup alternative to diesel generators.



### ► 750kW Fuel Cell CHP Power Plant

Horizon installed a 750kW CHP power plant for a manufacturing company in South Korea aiming to capture value from their previously unused hydrogen byproduct coming from their processes.

The power plant leverages CHP capabilities, reaching more than 85% energy efficiency.

The power plant complies with IEC safety standards related to stationary fuel cell power systems, and is endorsed by third party certification authorities from China and South Korea.



## POWER PLANT DEPLOYMENTS

### ► 80kW Fuel Cell Power Plant

Horizon worked with Hyzon Motors to supply a containerised 80kW fuel cell system to an Australian customer to showcase their hydrogen production technology.

The customer produces hydrogen from municipal waste water treatment off-gas via a patented process.



### ► 100kW Fuel Cell Backup Power Plant

Horizon delivered a 100kW backup power plant to a commercial customer in China as backup power for their data centre.

The power plant uses hydrogen stored in metal hydride canisters, which are safe and low-pressure.



### ► 50kW Fuel Cell Power Plant

A 50kW fuel cell power plant was deployed for Hefei Sungrow Power Supply Company as part of its demonstration project of their multi-mode hydrogen production system in Sunshine Industrial Park.

The renewable energy project includes a 650kW Solar PV system, a 230kWh energy storage system, a 100Nm<sup>3</sup>/h electrolyser and 50kW hydrogen fuel cell power generation system.



**Zero Emission Power Plants from a Global Leader  
in PEM Fuel Cell Technologies.**