



## CPG

### Clean Port Power on Demand

Ports face growing pressure to decarbonize, but many lack the infrastructure to reach net-zero. The Clean Power Generator (CPG) offers a flexible, off-grid solution for cleaner portside operations. Our CPG containers offer up to 250 kW of clean power at the port, and are scalable, up to 3MW to meet your requirements.

Applications include cold ironing for berthed vessels charging battery-electric equipment, vehicles, and vessels, as well as supplying backup power in-port, especially where grid-based OPS is unavailable or constrained, and ports need rapidly deployable mobile units.



**Marine**

Getting hydrogen to work


## Why ports use it:

- ▶ Grid-independent, plug & play, and fast to implement for variable or constrained locations.
- ▶ No NOx, SOx, or PM from the reformer; high-purity H<sub>2</sub> for quiet fuel-cell power.
- ▶ EU policy context (for European prospects): AFIR and FuelEU allow “equivalent zero-emission technologies”, opening the door to modular, containerized OPS alternatives when grid timelines or costs are prohibitive.

## Other Benefits:

- ▶ Grid Independent
- ▶ Scalable up to 3 MW
- ▶ High Purity (99.97%) Hydrogen Production
- ▶ Plug & Play
- ▶ Low CAPEX / OPEX
- ▶ 24/7 Runtimes
- ▶ No operator needed

# CPG | Product Specifications\*

	CPG 150	CPG 250
<b>Performance</b>		
Gross Power Output (BoL)	150 kW	250 kW
Frequency	50 Hz	
Voltage	400 VAC (3P+N+PE)	
Electrical Efficiency	39.2%	35.4%
<b>Fuel Consumption</b>		
100% Load	≈ 2.2 L/min	≈ 3.5 - 3.8 L/min
<b>Fuel</b>		
Methanol Fuel Spec	IMPCA	
Methanol Fuel Ratio	Methanol 62.5+/- 0.5 wt% with balance DI water	
<b>Emissions at Rated</b>		
CO <sub>2</sub> Emissions	10% - 15% of Exhaust Airflow	
CO Levels	< 10ppm	
NO <sub>x</sub>	Not Detectable	
SO <sub>x</sub>	Not Detectable	
<b>Physical Characteristics</b>		
Operation Unit Dimensions	6m (L) x 2.5m (W) x 2.9m (H)	12.19m (L) x 2.44m (W) x 2.89m (H)
Chiller/Dry Cooler	Air or Water Cooling Unit Size TBD	
Built by		

\*Specifications are indicative only and subject to change

