## M/REFORMER

# METHANOL TO H<sub>2</sub> TO ELECTRICITY

Off-grid & Sustainable & Mobile

H-Nomad (H<sub>2</sub> 50 bar)



A sustainable, mobile, and off-grid solution for generating  $H_2$ , adaptable to any application. Clean, versatile energy, wherever and whenever you need it.

#### **FEATURES**

Why you may need MReformer solutions?

- 4 Environmentally friendly (No NOx, SOx, PM)
- Low capital expenditure (CAPEX)
- Low operating expenditure (OPEX)
- 4 Modulars: scalable from 150 kW to several MW
- 4 High energy efficiency

- 4 Reliable & low maintenance
- 4 Low noise & vibration resistant
- **Long service** life due to few moving parts
- 4 Fast h₂ availability: takes less than 3" from hot stand-by
- 4 24/7 working hours



HRS Stations

Off-grid genset

Off-grid supply

Field hospitals

Ports energy backup







#### SPECIFICATIONS: H-Nomad - 50 bar\*

Sustainable electricity by H<sub>2</sub>: Available wherever you need it

Certification	CE & ATEX certified
Performance Hydrogen generation Outlet pressure	9.8 kg/hr - 235.2 kg/day 1,800 sLm 50 bar (a)
<b>Hydrogen Quality</b> Hydrogen	>99.9919 %
Refurbish	≈ 20,000 h

Ambient conditions	5 °C to 45 °C
Pollutants CO NOX SOX	<300ppm 0 ppm 0 ppm
Physical Characteristics Format Dimensions (LxWxH) Weight	20 ft container 6.10 x 2.44 x 2.59 m ≈ 9,000 kg

\*Specifications subject to change

#### WHY METHANOL?

Widely available, safe & efficient for H<sub>2</sub> logistics

- 4 H<sub>2</sub> logistics by methanol radically cuts the transport costs
- Liquid at room temperature
- **Low carbon fuel** ideal for the energy transition
- **Widely available** thanks to its usage in maritime & industry sectors
- Global capacity expected to double before 2030
- √ High-density hydrogen carrier (CH₃OH)
- from the Can be manufactured in eco-friendly mode (green)
- f green, all applications are carbon neutral

### DELIVERING THE SOLUTION FOR H2 LOGISTICS

1 TRUCK OF METHANOL

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12 TRUCKS OF COMPRESSED H<sub>2</sub>



Methanol x 1 truck +600 km + 1.37 Tn CO<sub>2</sub> 3.6 Tons **H**<sub>2</sub>



Compressed H<sub>2</sub> x 12 trucks + 7.200 km + 16.4 CO<sub>2</sub>