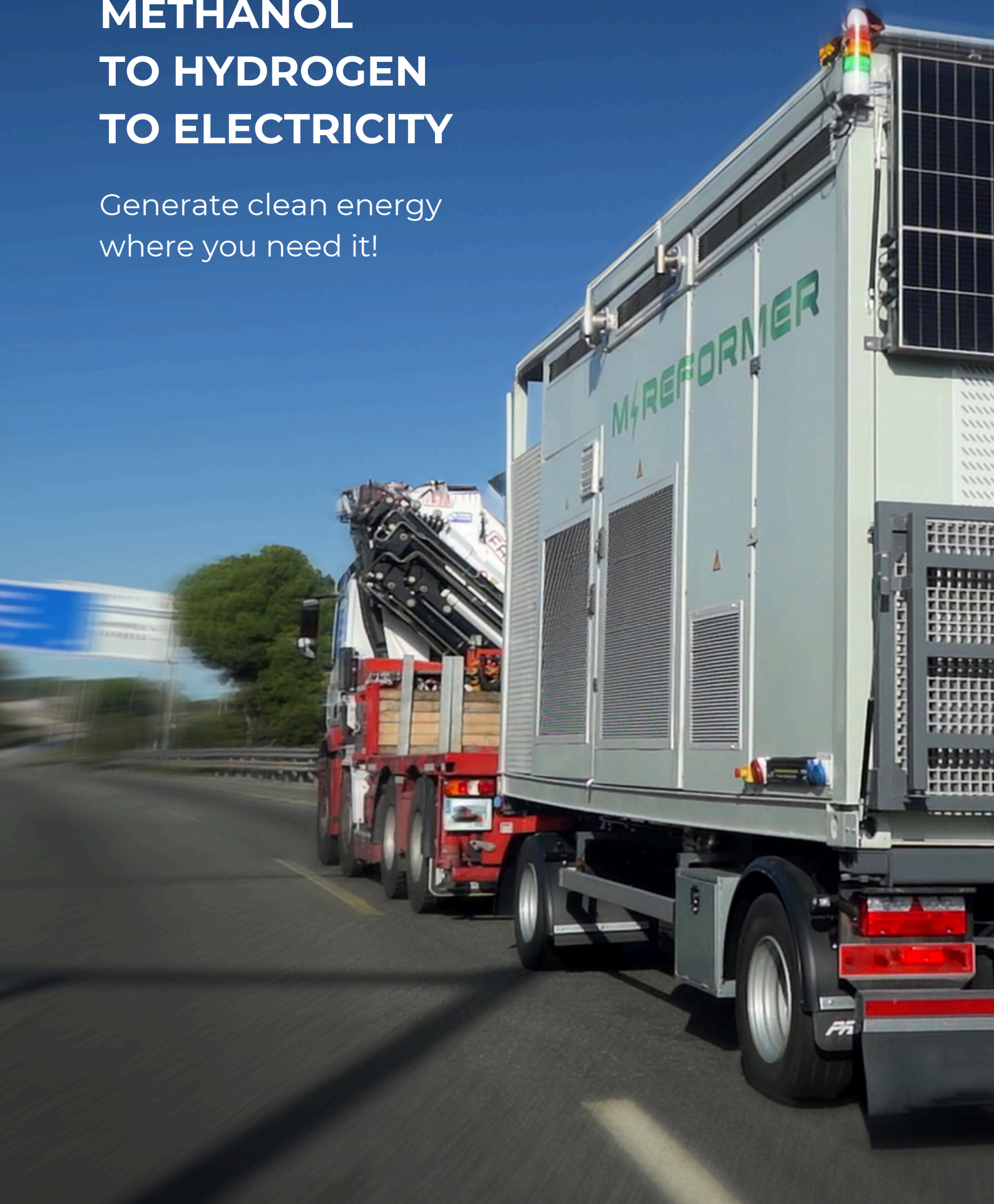


M⁺REFORMER



METHANOL TO HYDROGEN TO ELECTRICITY

Generate clean energy
where you need it!



ENERGY EVERYWHERE



CROSS-SECTORIAL APPLICATIONS

- ⚡ Mining / Construction
- ⚡ Ports / Airports
- ⚡ Industrial
- ⚡ On-board

- ⚡ Service Stations
- ⚡ Warehouse / Logistics
- ⚡ Data Centers



WHY METHANOL?

Widely available, safe & efficient for H₂ logistics

- ⚡ High-density **hydrogen carrier** (CH₃OH)
- ⚡ **Safer** manipulation vs other H₂ carriers
- ⚡ Liquid at **room temperature** & safe to transport
- ⚡ **Low carbon fuel** helpful for the energy transition
- ⚡ Global capacity expected to **double before 2030**
- ⚡ **Can be transported** in large scale
- ⚡ Can be transformed into **electricity without burning**
- ⚡ Based to **produce other fuels**

MREFORMER SOLUTIONS:

GENERATE YOUR OWN HYDROGEN ON-SITE

We design and produce **reliable, efficient, and sustainable solutions** for **hydrogen and/or electricity supply** for **on-site and on-demand** applications through methanol-reforming technology.

We are committed to providing **customized solutions** tailored to the specific needs of your company or project. Discover our **stand-alone solutions** (L/M18 & L/M30) or **integrated solutions***.



Stand-alone

L/M18: 9,8 kgH₂/hr (equiv. 150 kW e-)

L/M30: 16,2 kgH₂/hr (equiv. 250 kW e-)

Integrated solutions*

Scalability & Mobility / Modularity / Plug & Play
(in backpage)

STRONG POINTS:

- ⚡ No harmful gas emissions (**No NOx, SOx, PMs**)
- ⚡ **Grid independent**
- ⚡ High **purity (99,997%)** H₂ production
- ⚡ Low CO₂ emissions and **carbon neutral** with green methanol
- ⚡ **Low CAPEX / OPEX**
- ⚡ **Scalable** for expanded H₂ deployments
- ⚡ **Fast implementation**
- ⚡ **24/7** Run Times; no operator needed
- ⚡ **Reduced noise** and pollution
- ⚡ **Low** level of maintenance
- ⚡ **Fast** hydrogen availability

DELIVERING THE SOLUTION FOR H₂ LOGISTICS

H₂ logistics by methanol radically cuts the transport costs

1 TRUCK OF METHANOL = 12 TRUCKS OF COMPRESSED H₂



Methanol x 1 truck
+600 km + 1.37 Tn CO₂

3.6 Tons
H₂



Compressed H₂ x 12 trucks
+ 7.200 km + 16.4 CO₂

*Source for the calculation CO₂ from trucks: Transport & Environment (2021). Easy Ride: why the EU truck CO₂ targets are unfit for the 2020s

**3.6 Tn H₂ requires 18 Tn D.I. water for the reformation process

OUR SOLUTION CAN BE INTEGRATED INTO A MULTIPLE CUSTOMER-SPECIFIC APPLICATIONS



Integrated Solution* for hydrogen and/or electric supply for mobile and stationary applications

Our product line up includes containerized solutions for hassle-free power generation in local or remote areas.

20 feet and 40 feet container solutions are available to closely match your power requirements. These solutions are scalable up to MW level scale.

MREFORMER

For further information, contact us. We are here to develop and produce unique solutions together.



Web: www.methanolreformer.com



Email: info@methanolreformer.es



LinkedIn: www.linkedin.com/company/m-reformer