

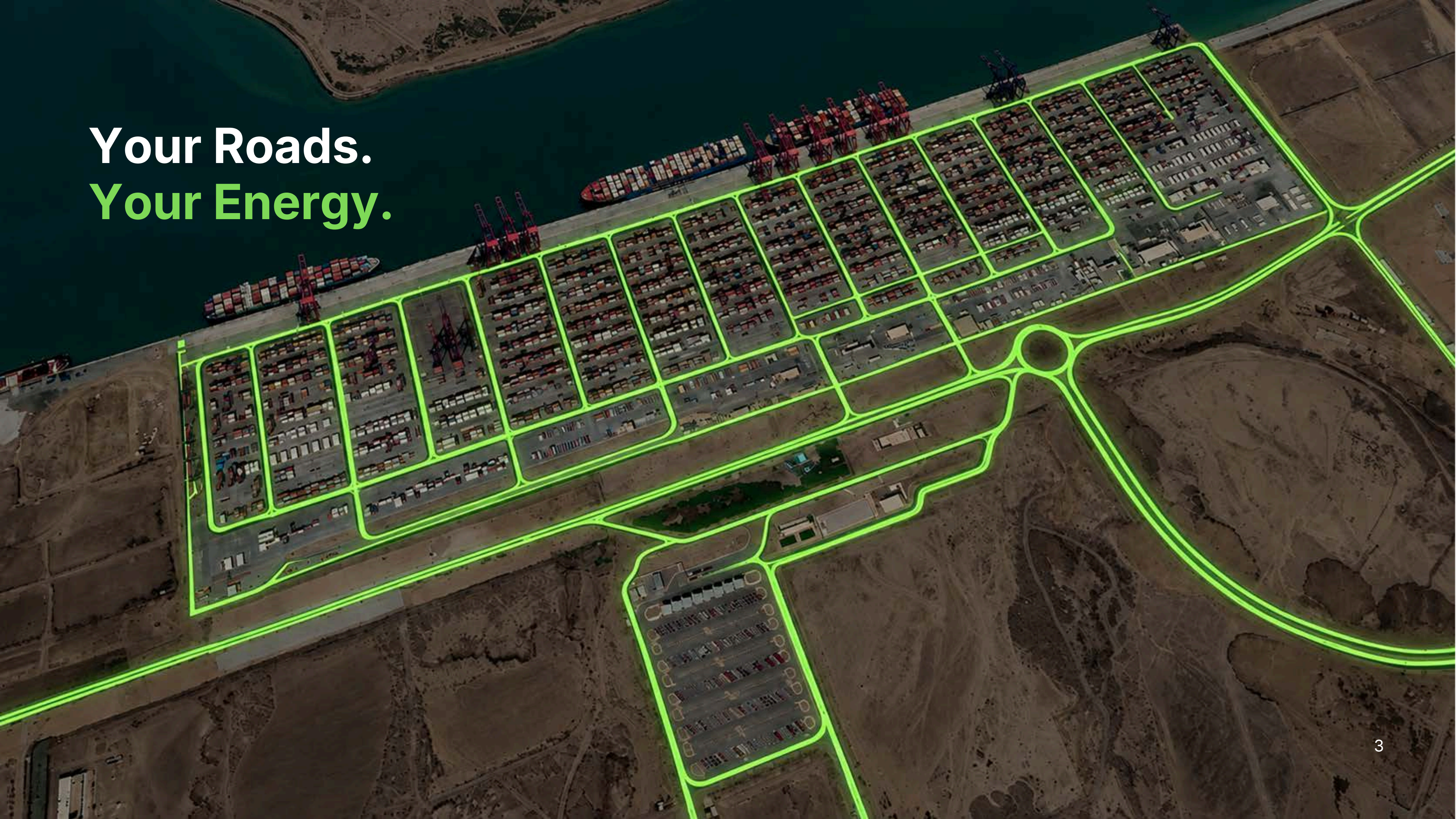
REPS

**What is the most
underused asset in your port?**

Your Roads.



Your Roads.
Your Energy.



Scaled across MENA's ports, this becomes a significant untapped energy source in **port logistics**.

>100 GWh

per year

Harvestable electricity
potential

~10%

of Container Handling Energy

Potentially covered through energy
harvesting

>49k

of tonnes of CO₂

Potentially saved through
energy harvesting

Methodology: Based on a MENA-adjusted model. Demand share: 76 M TEU in MENA at 15 kWh/TEU; CO₂ savings based on 500 g CO₂/kWh.

NREL (2024), Electrification Analysis: Container Ports' Cargo Handling Equipment

**This only counts traffic between
Terminals. The real potential
is even higher.**

The Road Energy Production System.



By simply driving over the
REPS Road Power Plant,
green energy is generated.

How REPS generates electricity from traffic: Capture. Channel. Convert.



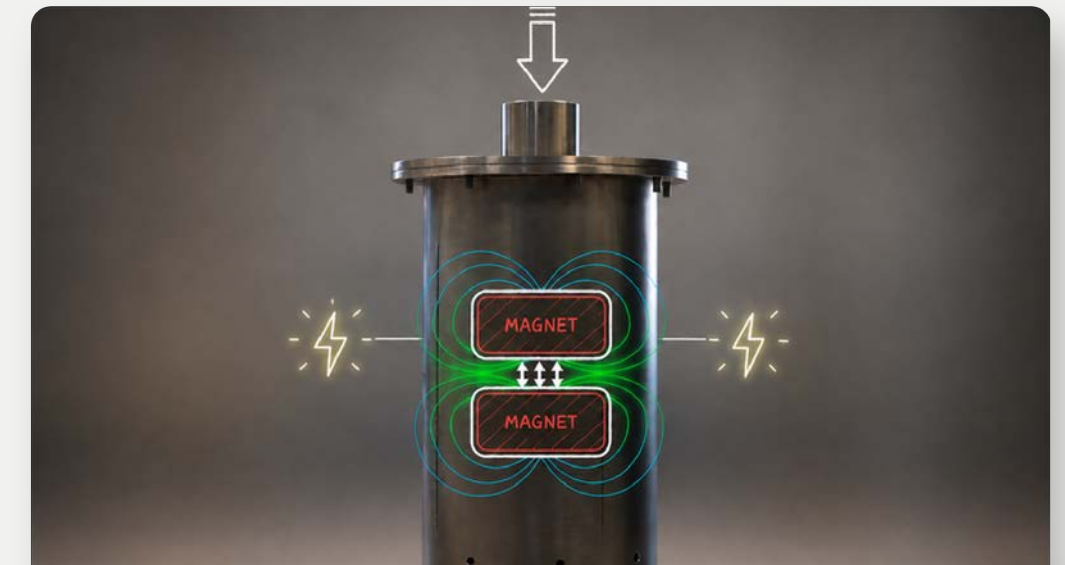
PLATE SYSTEM

Captures the **lost energy** from vehicles.



HYDRAULIC SYSTEM

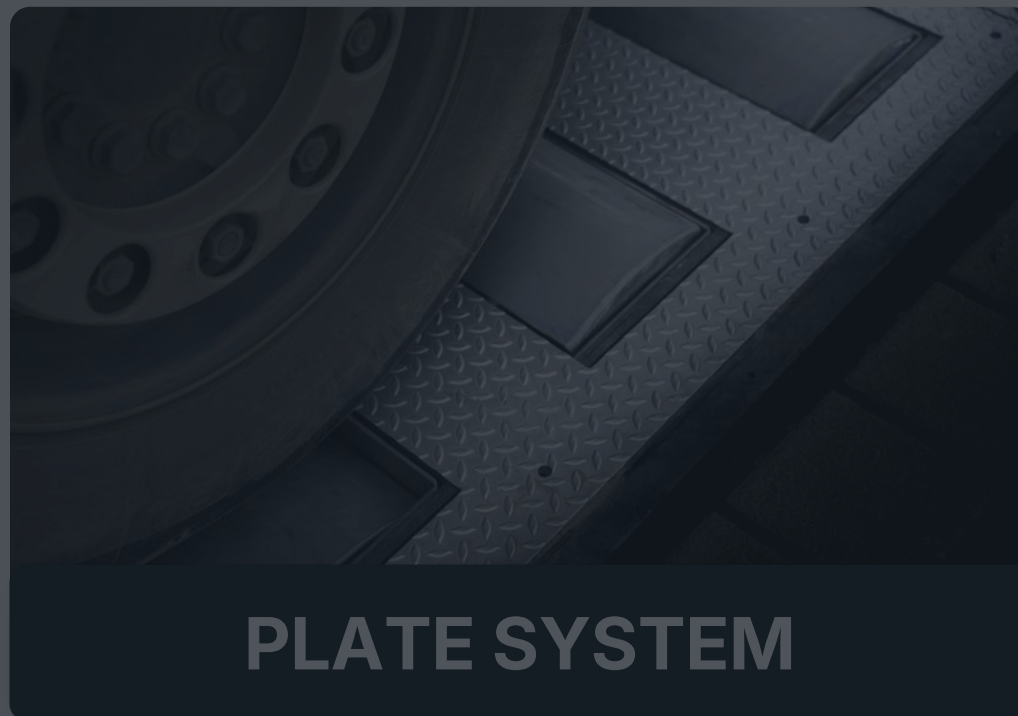
Channels impulses to the energy converter **next to the road.**



ENERGY CONVERTER

Converts impulses into **100% green electricity.**

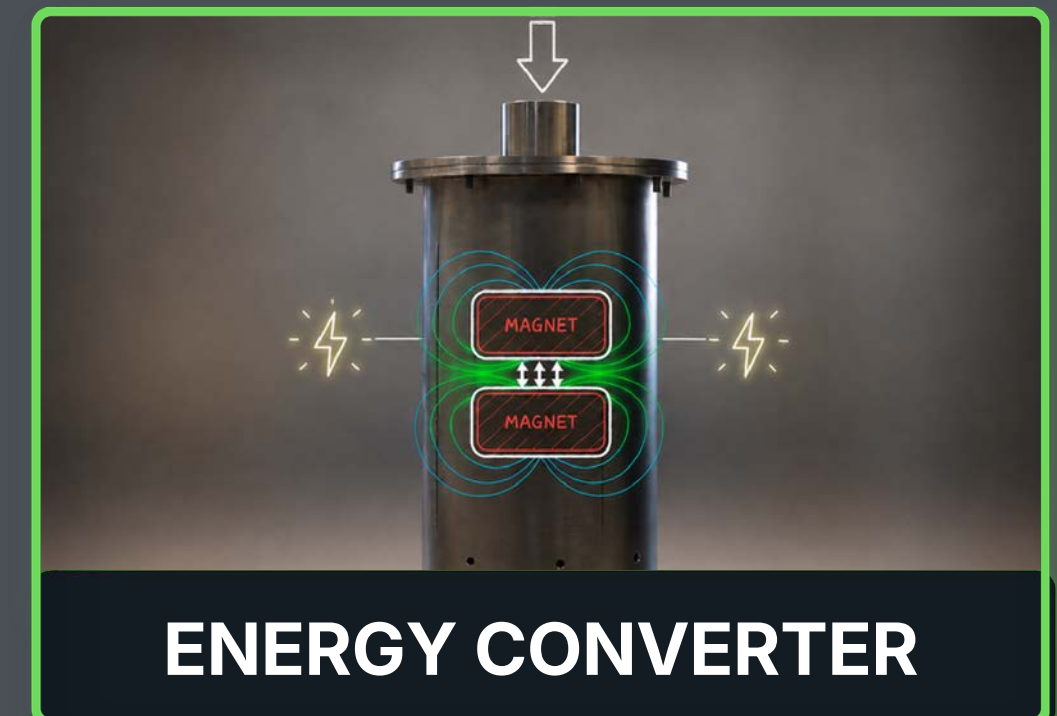
How REPS generates electricity from traffic: Capture. Channel. Convert.



Captures the **lost energy** from vehicles.



Channels impulses to the energy converter **next to the road.**



Converts impulses into **100% green electricity.**

Everywhere vehicles slow down, REPS captures energy.

**ENTRY & EXIT GATES****STOP SIGNS****TRAFFIC BARRIERS****SPEED BUMPS****ROUNDBABOUTS****EXIT LANES**

Perfect time to start. The growing energy demand and traffic will increase the Road Power Plant potential.

+50%

MENA electricity
demand by 2035

[IEA, 2025]

+2x

Container freight
globally by 2050

[HapagLloyd, 2025]


\$55.6bn

MENA port-construction
project pipeline

[Global Data, 2026]

**Every new road means
more Energy for your port.**

REPS unlocks a new source for the energy mix.



The common goal:
a diversified &
resilient energy mix

REPS provides strategic benefits for energy infrastructure.

Independence from the energy market

Zero additional land

Infrastructure from cost center to asset

More predictable than solar and wind

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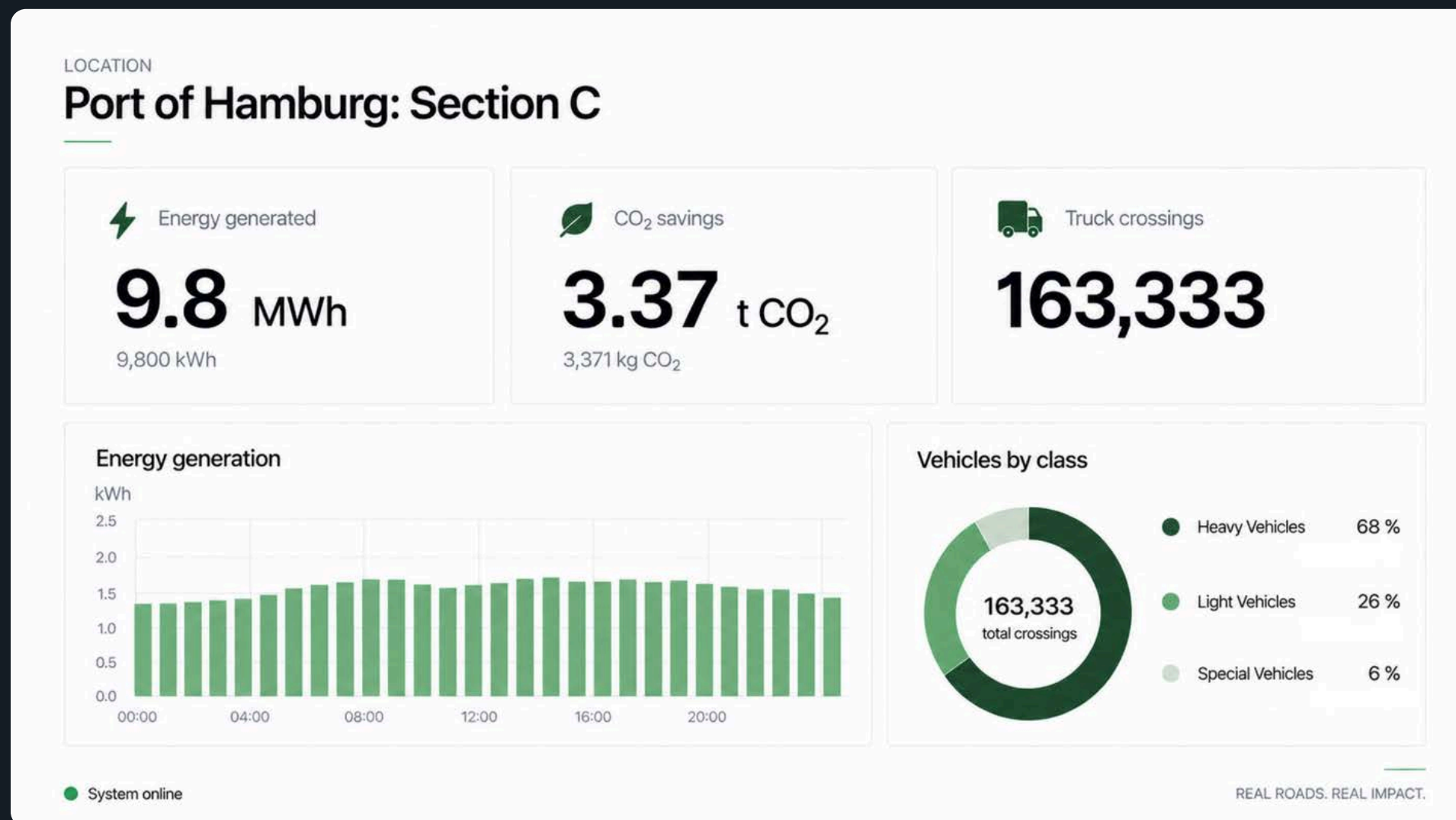
Independence from the energy market

Zero additional land

Infrastructure from cost center to asset

More predictable than solar and wind

REPS data helps you better understand your traffic.



- Data-based forecasting
- Data-based infrastructure planning
- Real-time vehicle counts
- Traffic patterns, peak periods

REPS is running at the Port of Hamburg



Jens Meier
CEO HPA & President IAPH



Forbes

*"We can't wait to see REPS in action. **Not only in the Port of Hamburg**, but throughout the city and far beyond, **all over the world**"*

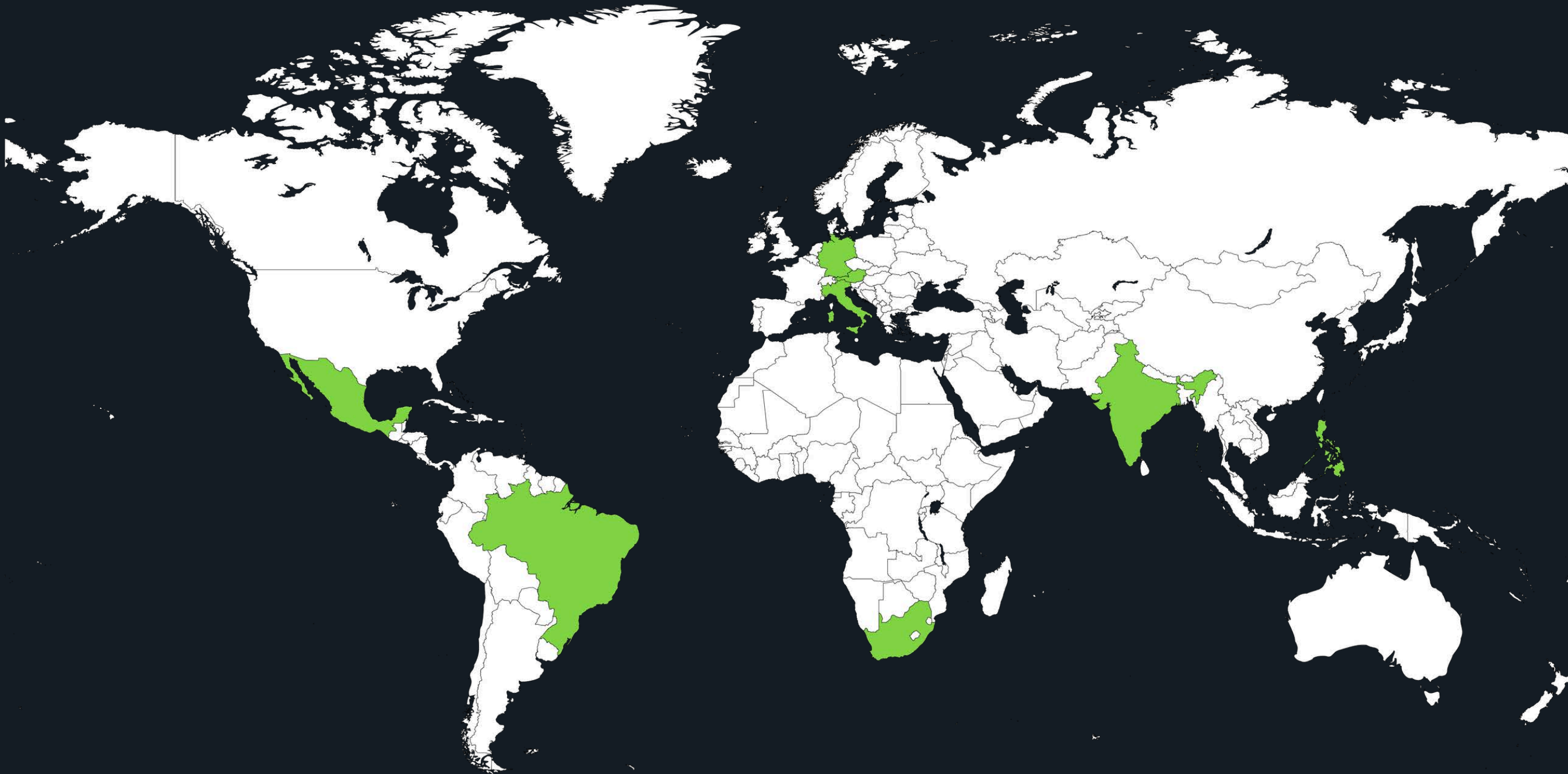
10 GWh

-9,9% CO₂

Payback < 4 years

ROLLOUT

85% of 2027 capacity booked.



Let's revolutionize how energy is generated.
From MENA to the world.

