

THIS IS ENRX

The right energy can take you anywhere

ENRX, owned by Arendals Fossekompani (Norway), is a global leader in green technology, specialising in equipment and systems based on induction.

EXPERIENCE 75+ years of induction expertise

NUMBER OF 1,000+ across 20 offices & 6 factories

EMPLOYEES

TURNOVER 160 MEUR

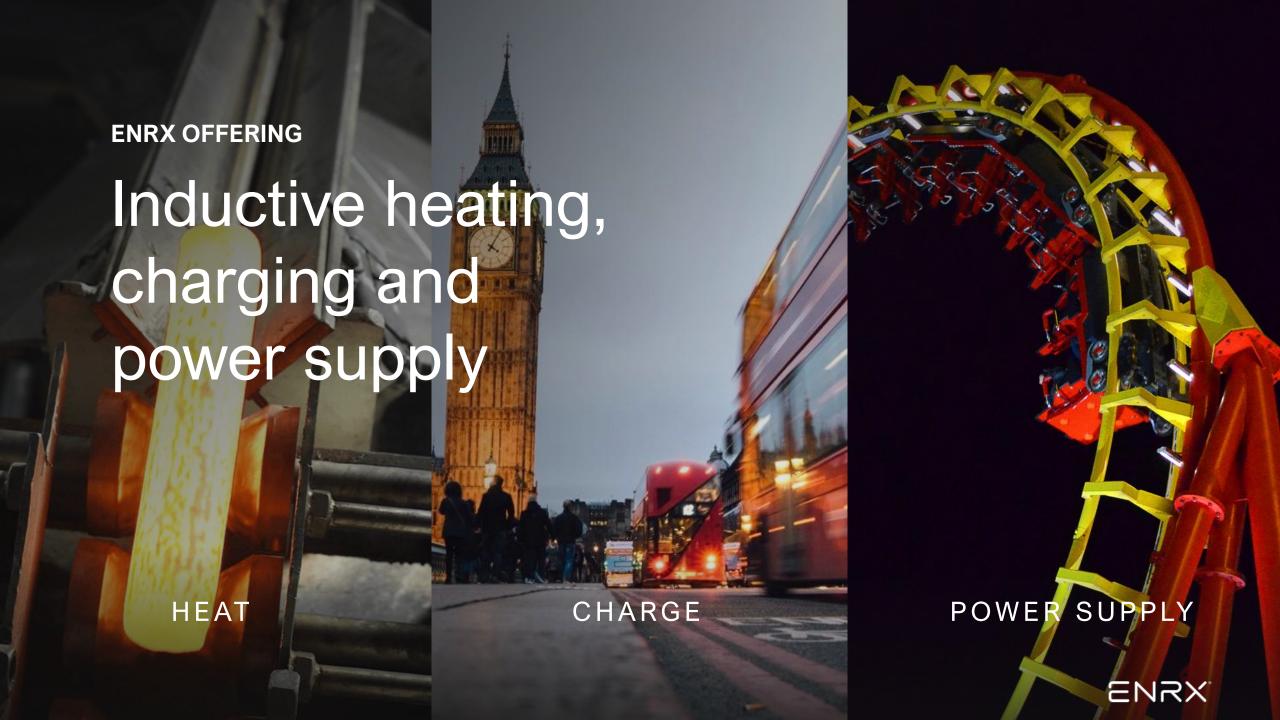
INDUCTION HEAT 30,000+ installations in 80+ countries

INDUCTION CHARGE 35+ million km driven on wireless charging

INDUCTION POWER 300+ km of industrial tracks worldwide

PATENTS More than 550 for induction technology

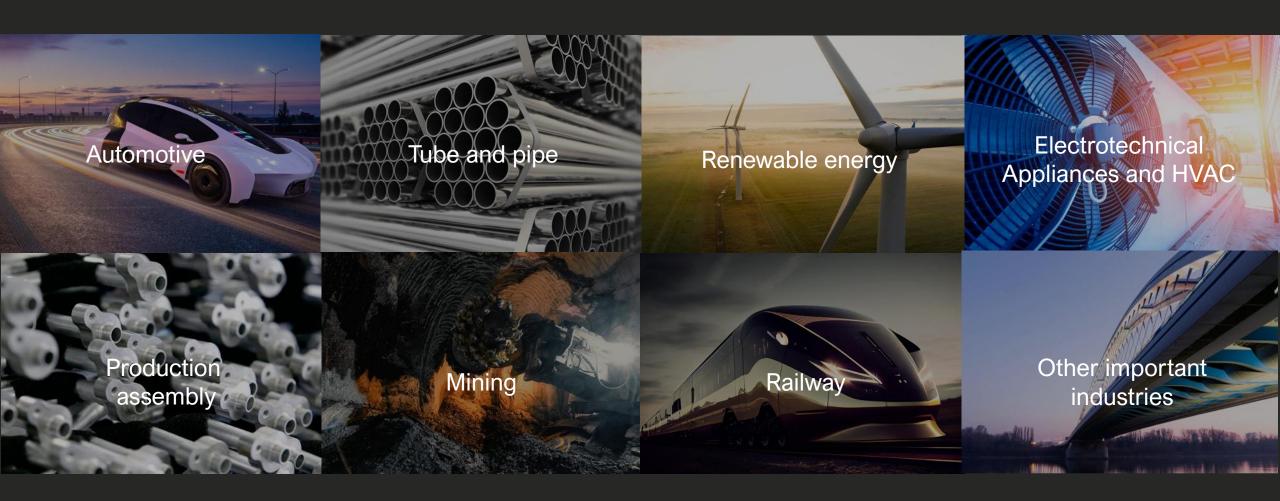






75+ years of expertise with over 30,000 installations worldwide
Global Nr. 1 leader in hardening and tube welding
Top 3 company in induction heating systems

Industries heat

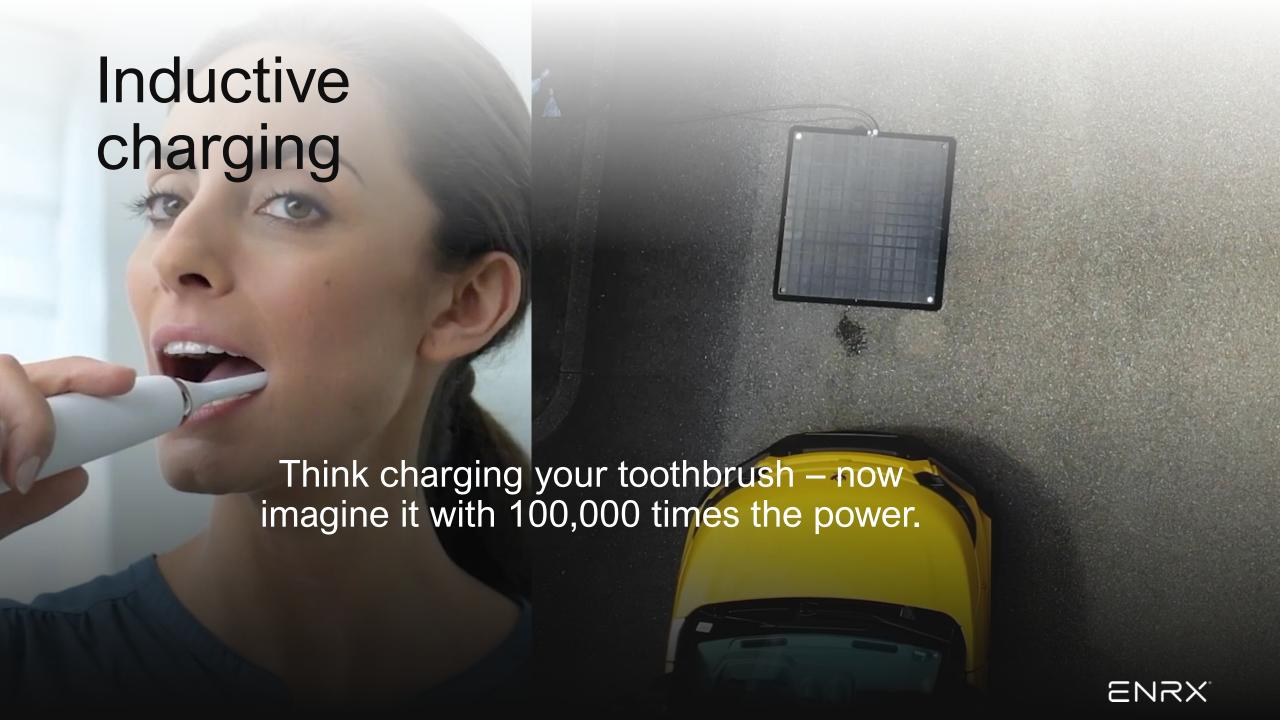


APPLICATIONS HEAT

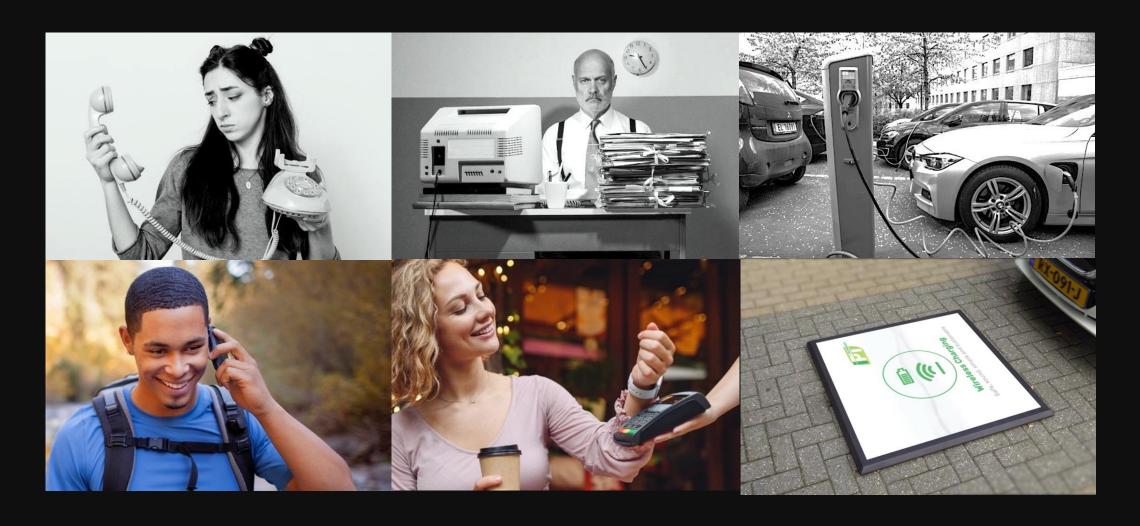
From faucets to spaceships, solar cells to bulldozers, and wind farms to power stations.

ANNEALING AND NORMALISING	PAINT AND COATING REMOVAL	SHRINK-FITTING
BOLT HEATING	POST-HEATING	STRAIGHTENING
BONDING	PRE-HEATING	TEMPERING
BRAZING	HARDENING	WELDING
FORGING	MELTING	WIRE AND CABLE HEATING





The world is going wireless





Heavy-duty wireless static charging

Public transport buses, port trucks and cranes, maritime, mining equipment

High power wireless electric roadway

Long-haul trucking, public transport buses, trucks, delivery vans, electric cars, fleet vehicles

Industrial static & dynamic charging

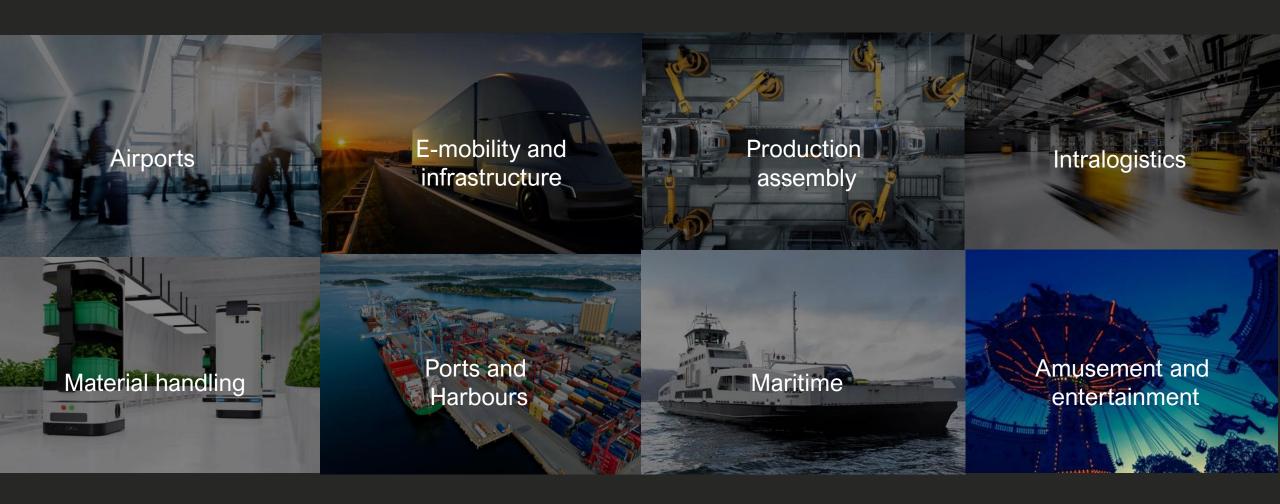
Forklifts, Mobile robots, Automated Guided Vehicles, industrial shuttles, material handling equipment

Industrial contactless power transfer:

Sorter systems, conveyor systems, assembly lines, automated storage and retrieval systems

ENRX

Industries charge and power supply







ELECTRIC MOBILITY



2 SEMI - DYNAMIC WIRELESS CHARGING

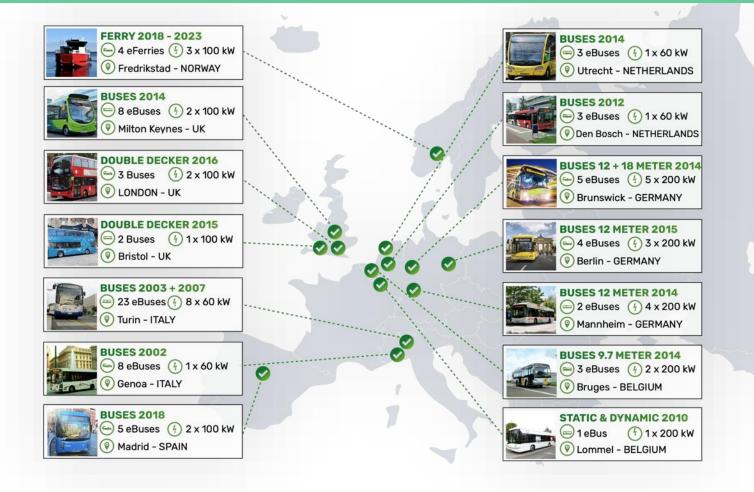
- No plugs, no hassle
- Works in all weather
- Compatible across platforms
- Ready for smart grids
- Supports autonomous driving
- Enables vehicle connectivity
- Less clutter, cleaner cities
- Ideal for shared mobility





Wireless power for heavy-duty transport

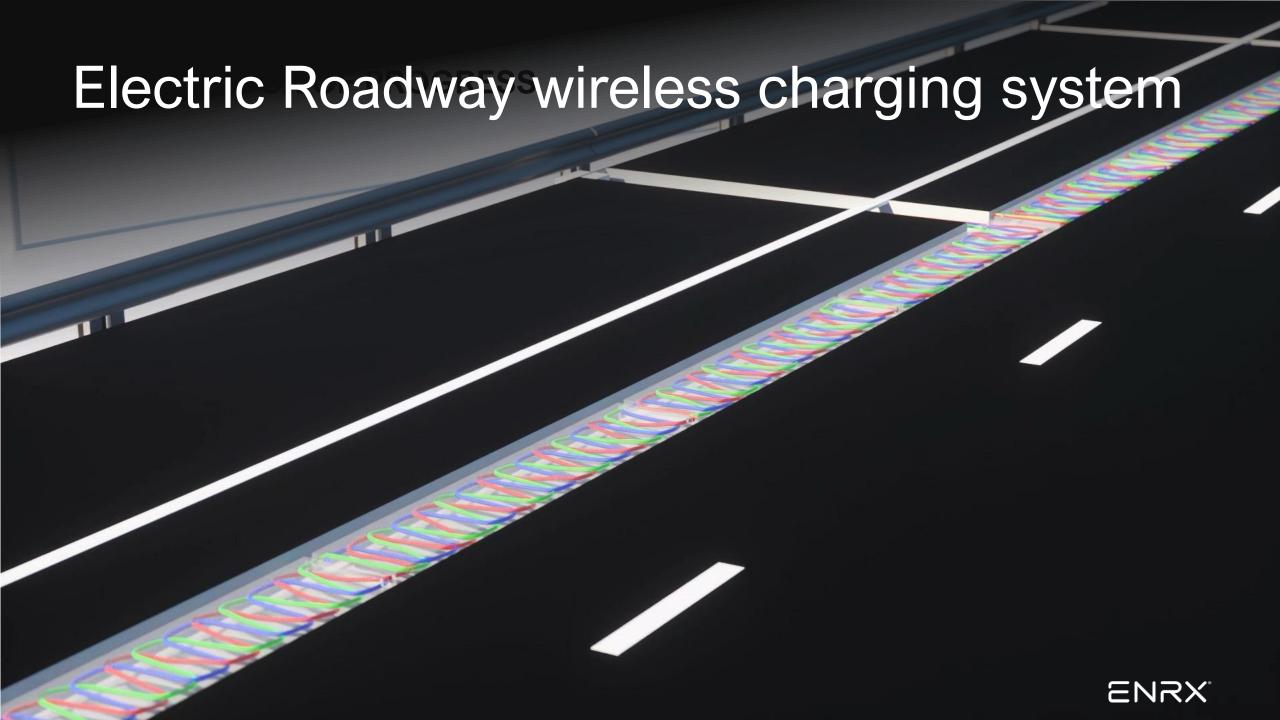
>25 YEARS ON THE ROAD >35 MILLION WIRELESS KILOMETRES >8 YEARS ON THE WATER >500.000 WIRELESS KILOMETRES











INDUSTRIAL MOVEMENT & MOBILITY

The challenge: powering smart industries

Industries such as logistics, warehousing, manufacturing face similar pressures:

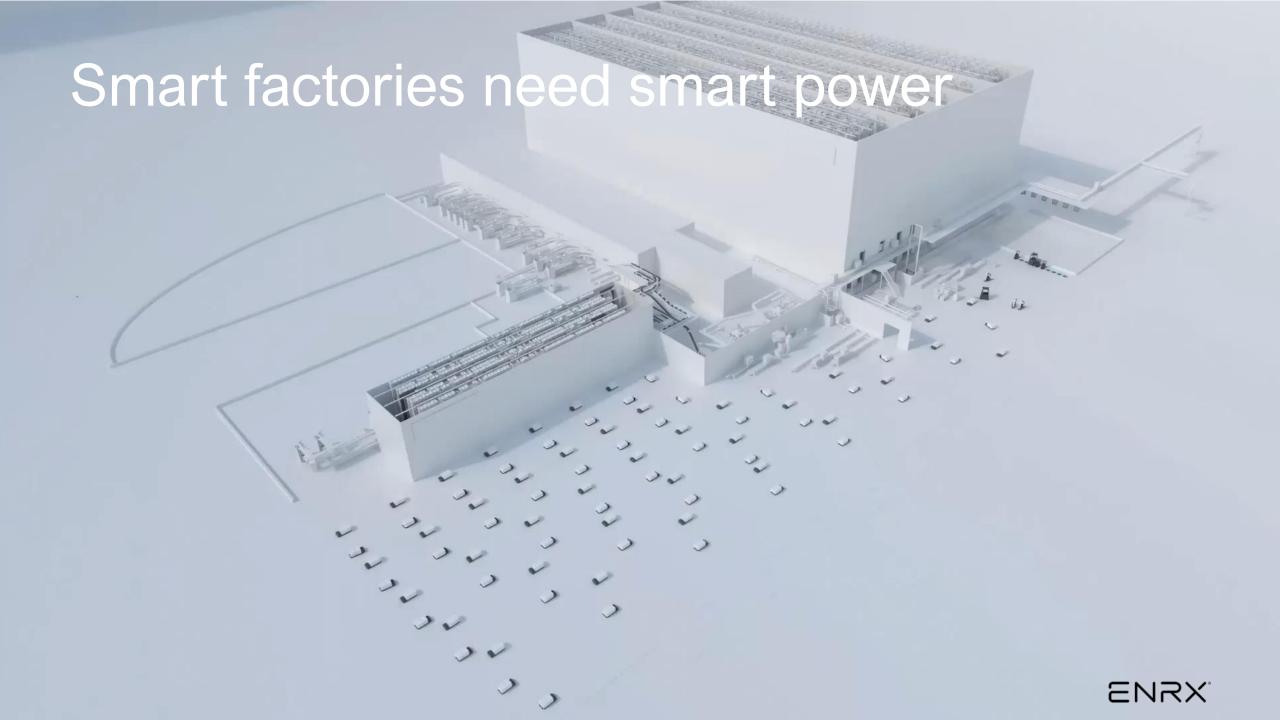
- Growing demand for uptime, speed and reliability
- Need for flexible, automated operations in tight production spaces
- Sustainability and energy efficiency are no longer optional
- High performance expected around the clock 24/7/365

However, traditional power solutions are limiting:

- Cables and connectors:
 - Downtime, maintenance, safety risks, and costly use of space due to dedicated charging areas
- Manual charging:
 - Interrupts workflow, causes productivity loss, and doesn't scale with automation
- Sliding contacts:

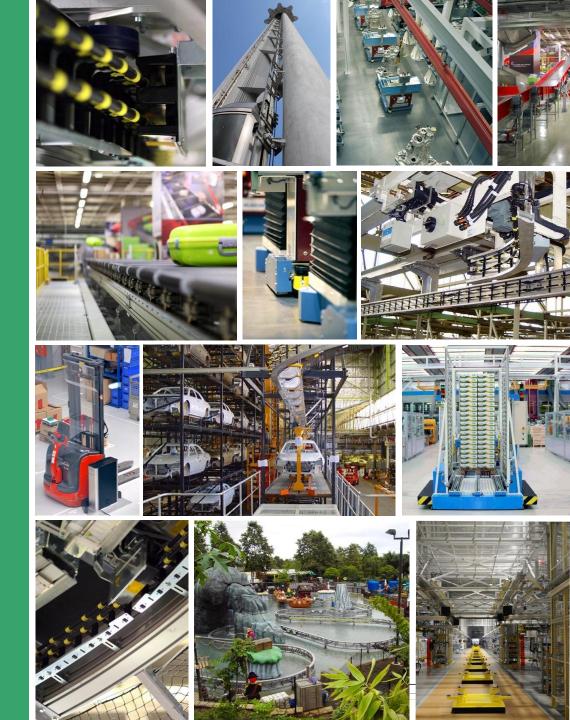
Mechanical wear, regular maintenance, and reliability issues in harsh or high-speed environments

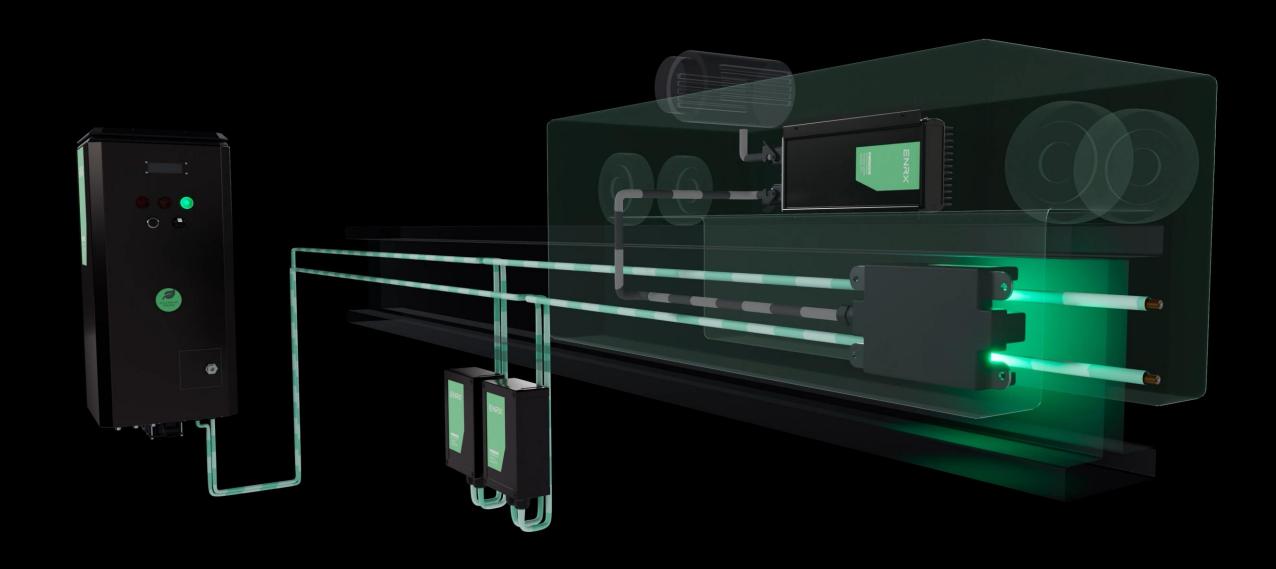




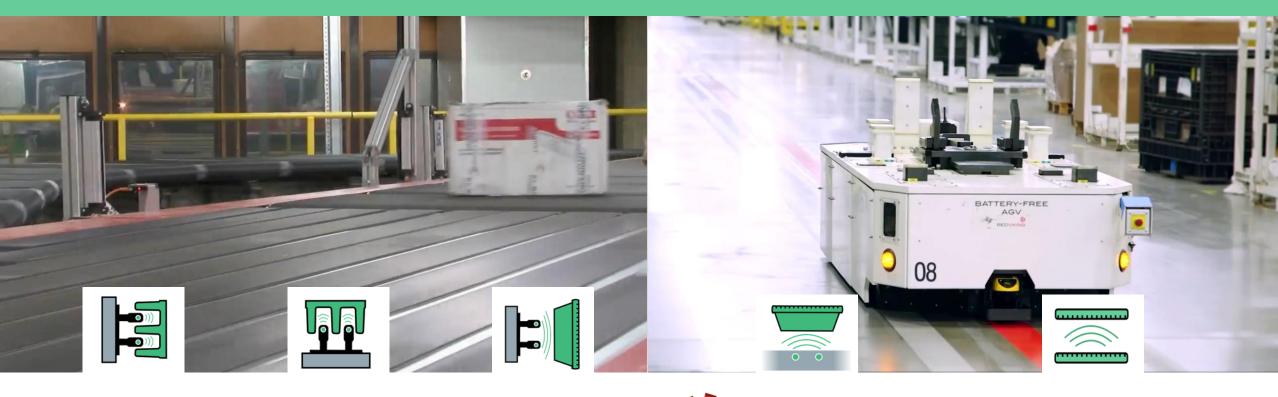
Uninterrupted power for productivity and innovation

- Wireless & contactless → no wear,
 no maintenance
- Seamless integration into workflows
- Efficient, reliable & safe operations
- Sustainable and future-proof industry





3 decades of experience with 300+ km in daily operation Proven performance in demanding environments



















































































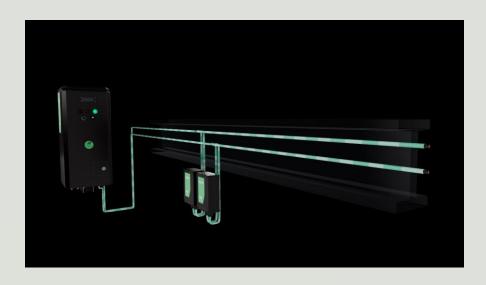






This is PWRMOVE

PWRMOVE is a contactless power supply system that keeps rail-guided transport running without interruptions. With 97% power transfer efficiency, it ensures stable power with minimal energy loss. By eliminating mechanical connectors, it reduces maintenance and maximises uptime. Its compact design allows easy integration.

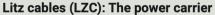


STATIONARY COMPONENTS



Inductive Power Supply (IPS): The power source

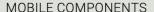
Transforms standard grid power into high-frequency alternating current (AC), ensuring a stable and continuous energy supply along the entire track.



Embedded along the track to carry highfrequency AC power. The cables generate a consistent electromagnetic field, enabling efficient energy transfer to moving shuttles while minimising energy loss.

Compensation box (CMO): Power optimisation

Optimises energy efficiency by balancing voltage and current levels, ensuring high system performance over long distances.





E-shaped pickups (EPU): The energy receiver

Mounted on carriers surrounding the power rail, effectively capturing energy from the electromagnetic field. It is designed for high-speed, silent operation, ensuring reliable energy transfer during sharp turns and at varying distances from the track.



Inductive power regulator (IPR): Optimising power delivery

Transforms high-frequency AC power from the pickup into stable DC power, which supplies the vehicle's motor and onboard systems. This regulation ensures consistent voltage levels and prevents power fluctuations.



Uptime - nonstop underwater operation

CASE STUDY: NEMO RIDE, THEME PARK, ORLANDO, USA

Always on show

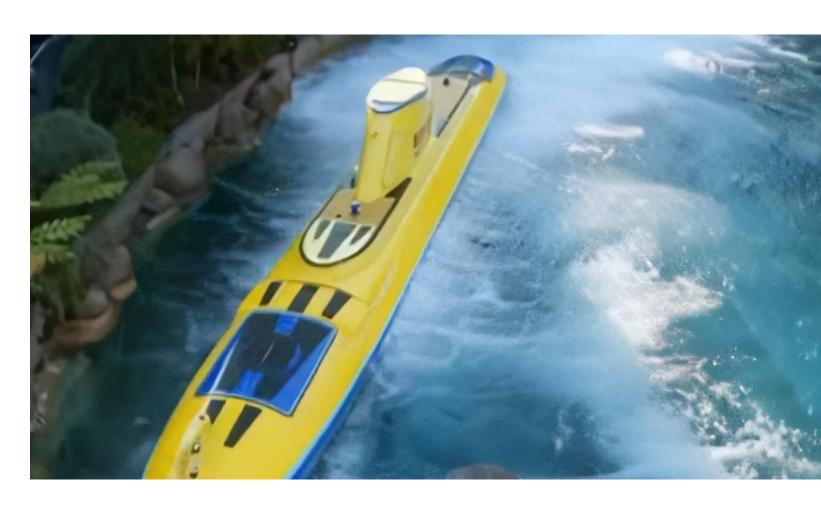
- Operating since 2004
- 8 submarines on ~200 m underwater track at 80kW

Engineered for extremes

- 365 days/year
- 3 meter underwater
- No visible infrastructure

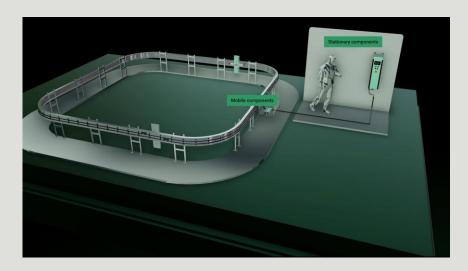
Zero-failure performance

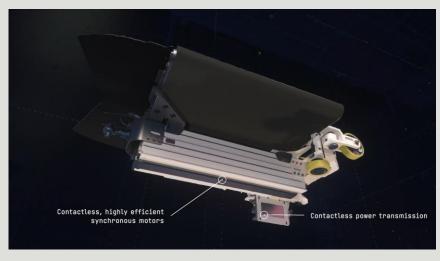
 Thousands of ride cycles daily, no downtime



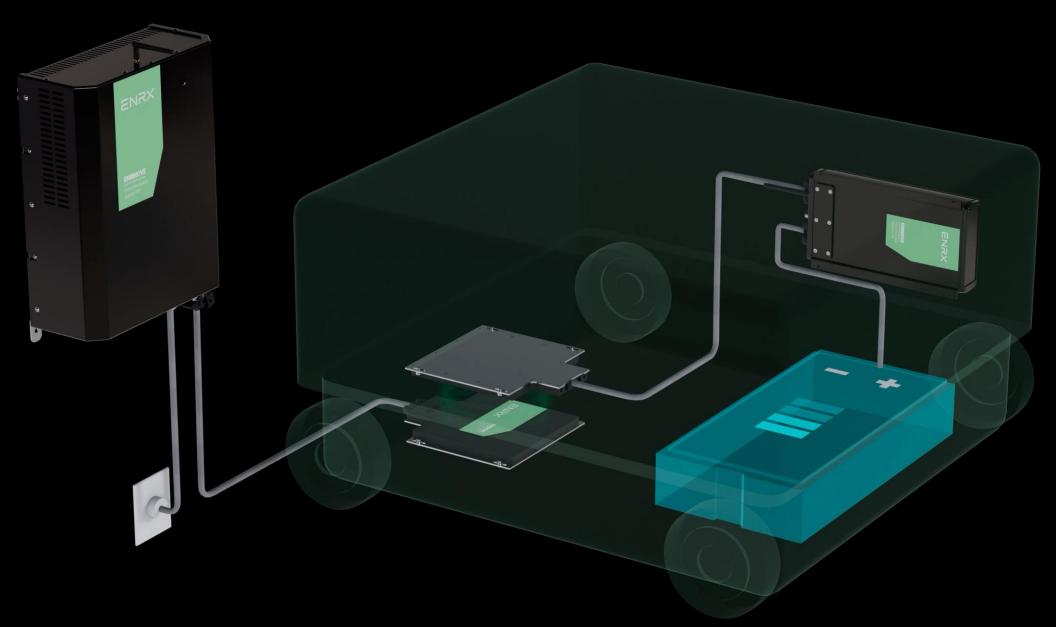
What makes PWRMOVE unique

- Continuous 20–40 kW power reliable energy transfer for rail-guided transport at any speed, without interruptions.
- 97% efficiency stable high-power with minimal loss, ensuring lower operating costs.
- Zero wear no moving parts or connectors, eliminating service downtime and extending system life.
- Silent & clean no sparks, dust or emissions, making it safe for sensitive or high-hygiene environments.
- Harsh-environment ready proven reliability in wet, cold, dusty or cleanroom conditions.
- Compact 5th-gen design up to 60% smaller footprint, easier integration into existing layouts.
- Scalable platform one technology for single lines or large automation systems, future-ready for expansion.









ENRMOVE: Smart factories need smart power

ACCELERATING INDUSTRY 4.0 WITH WIRELESS POWER SOLUTIONS

Reliable, compact, and efficient wireless power systems are key to driving the adoption of smart Industry technologies.

- technologies.

 Always available: vehicles recharge
 automatically during short stops, no planned
 downtime
- Cost efficiency: no charging rooms, no battery swaps, fewer spare vehicles
- Maintenance-free: sealed, contactless system, no wear, no service disruptions
- Flexibility: compact pads integrated in workflows, scalable layouts
- Future-ready: same charging system for AMRs, AGVs and forklifts and in-motion charging
- Safety & reliability: no exposed contacts, safe in wet and cleanroom environments



This is ENRMOVE

ENRMOVE is a high-efficiency wireless charging system that keeps intralogistics vehicles constantly powered. With over 90% overall efficiency, it ensures minimal energy loss and high fleet availability. Its encapsulated design withstands dust, moisture and mechanical impact.





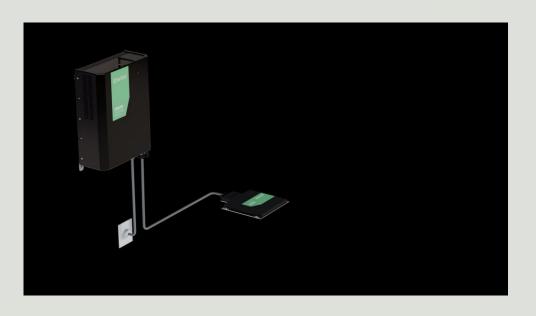
Inductive Power Supply (IPS): The heart of the system

The IPS power source delivers a stable and controlled energy supply, ensuring efficiency and continuous performance.



Primary Coil (PCO): Power from any angle

The PCO can be mounted on the floor, walls or even overhead, transmitting power wirelessly to vehicles positioned above, beside or below. This flexibility allows seamless integration into any industrial layout.



MOBILE COMPONENTS



Secondary Coil (SCO): Precision in every charge

Mounted on the vehicle, the SCO captures power from the PCO regardless of orientation—whether charging from the floor, a wall-mounted system or an overhead coil. Its positioning tolerance ensures consistent energy transfer, even when alignment isn't perfect.



Inductive Power Regulator (IPR): Protecting battery life

The IPR converts inductive energy into DC power, optimising charge cycles to maximise battery health and longevity.



What makes ENRMOVE unique

Robustness & reliability

- Electronics designed for 20+ years lifetime
- 100% duty cycle at 40°C; max current, no cooling breaks
- Coils built for heavy impacts and loads

Environmental resilience

- Immune to dust, dirt and moisture
- Fully sealed design, zero maintenance
- Suitable for food, pharma, cleanrooms and heavy industry

Compliance & efficiency

- Meets CISPR-32 (stricter than CISPR-11)
- High efficiency >90%, High availability
- Designed for IP65 compliance

Flexibility & integration

- No position sensors needed (Search Mode)
- Interoperable; charge any vehicle on any pad
- Flexible distances (up to 10 metres)

Communication & usability

- Plug & play: select battery type, start charging
- "Search Mode" for simple alignment
- Pairing in ~4 s, in 2 minutes we charge 116 seconds

Battery-friendly charging

- Cell balancing for longer battery life
- Low-current charging from 1A (slow ramp-up for BMS)
- Safe recovery of deeply discharged batteries

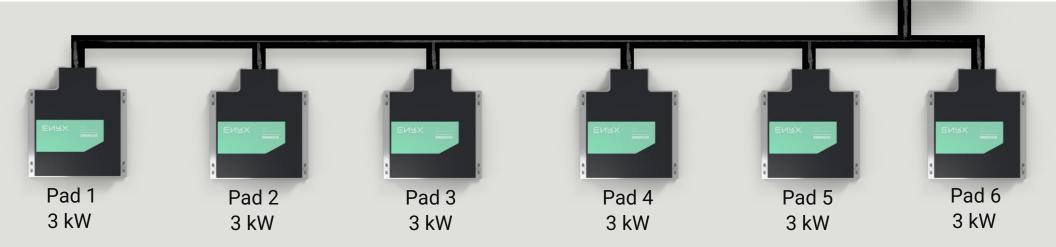
Backed by a legacy of 75 years in induction technology and decades of wide-spread charging expertise.

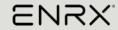


What makes ENRMOVE unique

Scalability through modular design

- One 20 kW IPS powers up to 6×3 kW pads (unmatched in the market)
- Parallelisation up to 60 kW, scalable for large fleets
- Backed by ENRX inductive expertise in low and high-power systems



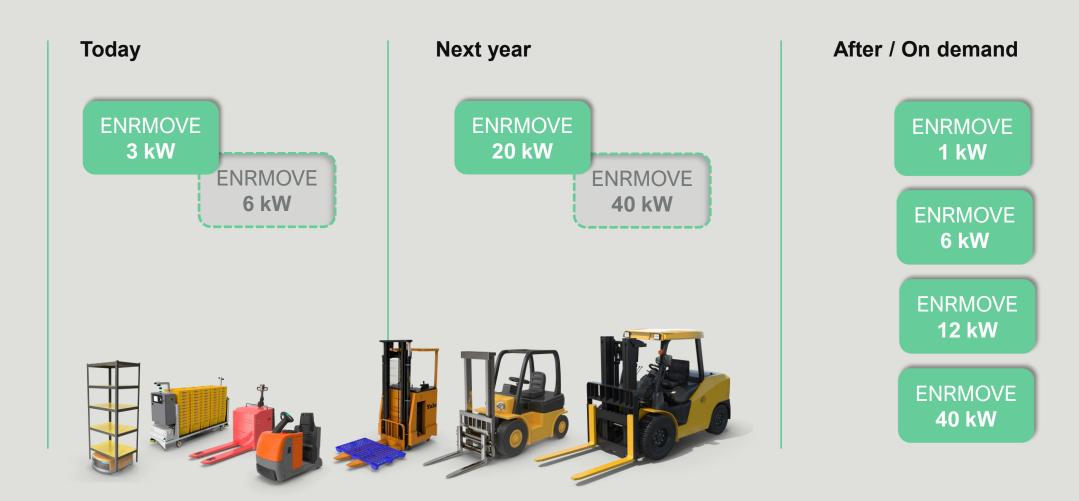


IPS

20 kW

What can you expect from us

A ROADMAP SHAPED BY MARKET NEEDS AND CUSTOMER DEMAND





Tailored benefits for every stakeholder

- OEMs & System Integrators: Easier integration, lighter battery requirements, scalable design, future-proof standardisation
- Operations & Logistics Managers: Higher uptime, automatic opportunity charging, reduced fleet size, lower operating costs.
- Facility & Logistics Hubs: Lower cost, no charging rooms or cable infrastructure, more productive floor space, safer and cleaner operations.
- Employees: Safe, contactless systems with no exposed connectors, quiet and emission-free environments.

"It's not just charging – it's empowering industrial efficiency."



THANK YOU



Any questions?

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