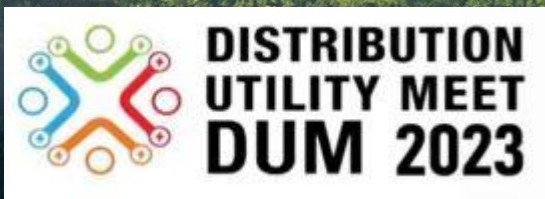



electreon


Charging the way forward

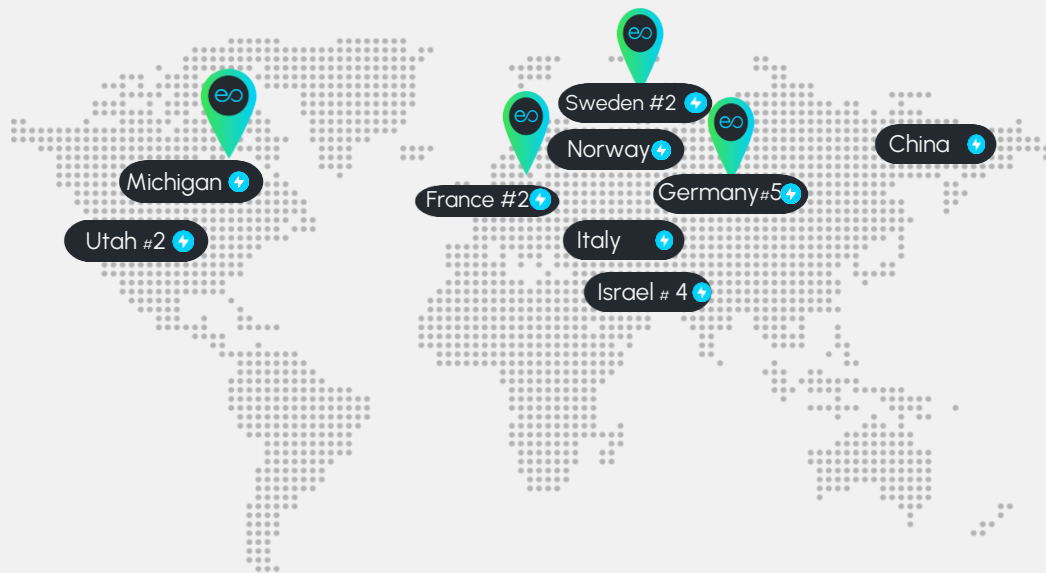


— anytime, anywhere

Electreon - world leading pioneer of wireless charging

 19 Projects across the globe

 4 Subsidiaries in the USA, Germany, Sweden and France



2021 *TIME*
One of the
Best Inventions
of the Year

19
Global
Projects

2013
Company
Founded

16
Patents

12
Automotive
Partners

2023
World Record 100-
Hour Drive

Challenges in the EV Transition



The Battery Problem



Charging Infrastructure



Electric Grid Connections



Electric Fleet Operation



Electreon's technology
solves these challenges



Electreon's Value Add



No Visual Impacts = Low
Maintenance and Charging
Anywhere



Efficient EV Operations =
Increase Uptime and Reduce
Management Costs



Shared Charging Platform = Multiple
EVs Charge from Single Unit



Battery Reduction = Save on
Costs, Weight, and Emissions

Electreon provides
wireless charging
anywhere, anytime



Product Details

Electreon's Wireless Charging System

- 1 Above-ground Management Unit (AMU) transfers energy from the grid to the charging infrastructure
- 2 Underground Management Unit (UMU). Same functionality as AMU without any visual impact
- 3 In-road copper coils transfer power to the vehicles' receivers
- 4 Vehicles receiver installed on the EV to transfer energy directly to the engine
- 5 Management Software monitors & manages optimal EV charging in real time

Real-time Software Management



Dynamic Charging as you drive

- ⚡ Up to 500 kW per 100 meters
- ⚡ A shared charging platform for all EVs
- ⚡ Enables unlimited range*

*While driving on wireless Electric Road

The New Global Standard in
Wireless ERS

Electric Road System



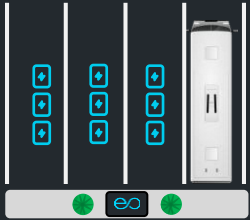
Static Charging

Two static charging products

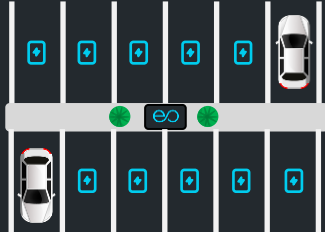
Charging up to 180 kW

Charging up to 360 kW

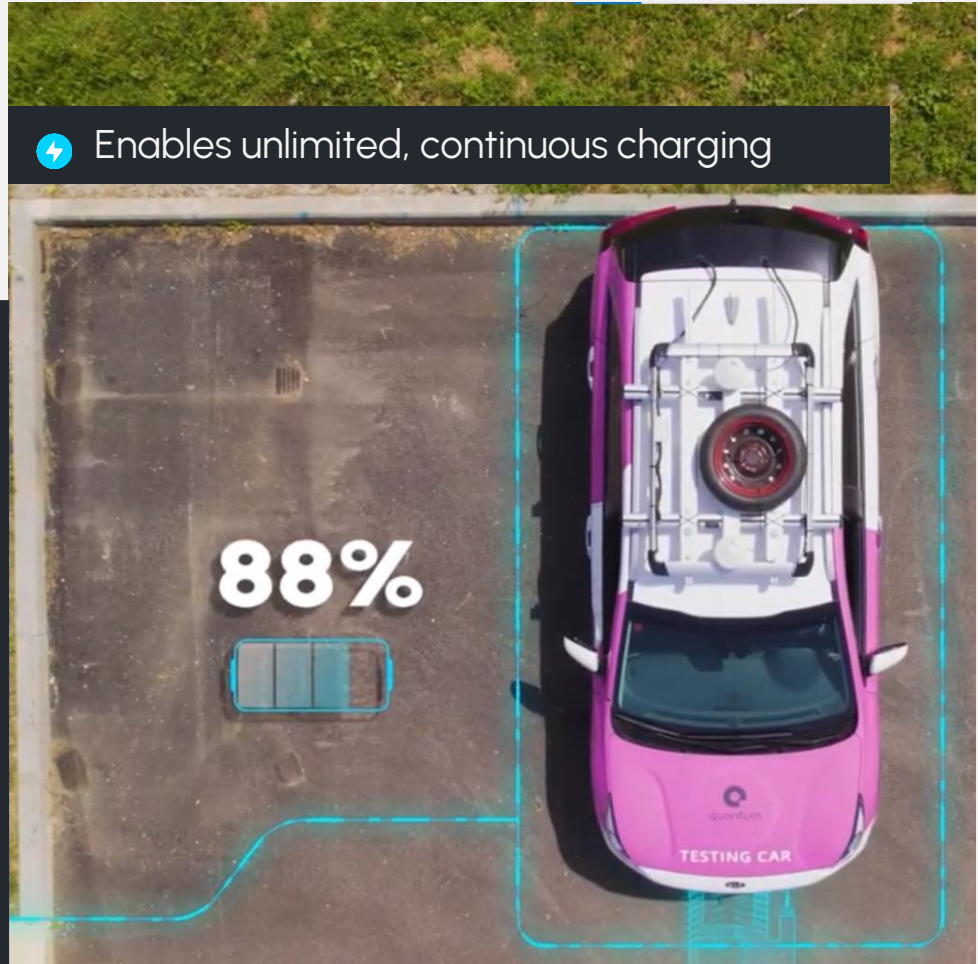
Charging up to
4 buses
simultaneously



Charging up to
12 private vehicles
simultaneously



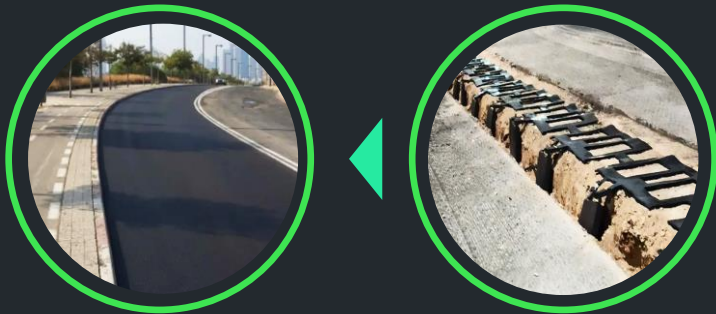
Enables unlimited, continuous charging



Quick & Easy Deployment

1 km of coils laid, and asphalt repaved in **one night**

With no change to the road surface



Creating Sustainable Impact: eBus and eTruck Project Use Cases

Project: Tel Aviv University

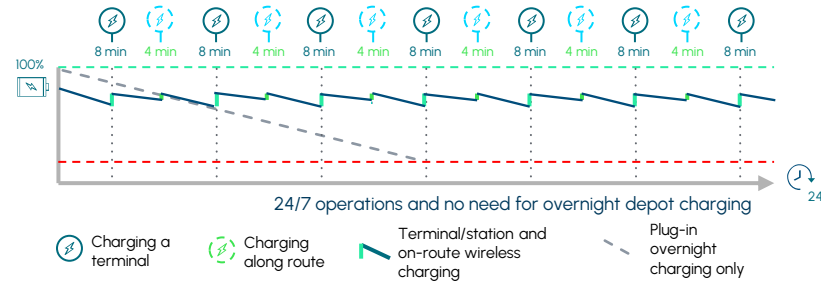
Wireless charging in any location enables regular 'top-up' charge throughout the day

- Eliminates range anxiety – and enables increased operational hours, even 24/7 operations
- Battery capacity can be reduced by up to 90%, saving an estimated \$53K and 48 tons of CO2 emissions per battery, per bus.
- Perfectly suits operations and workflows of the bus fleet - no interruption to current fleet behavior

In Sweden We demonstrate that a 40 ton e-truck can be equipped with just a 210 kWh capacity battery and have extended range

Tel Aviv – Live Public Project

Optimal mix of regular 'top-up' stationary charging at terminal with dynamic charging along the bus route



In Tel Aviv – we showcase massive battery reduction

Overnight conductive charging



400+ kWh
Required bus battery capacity

Distributed wireless charging



42 kWh
Required bus battery capacity

Project: Full City Fleet Commercial Agreement



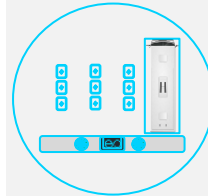
Dynamic charging

90 kW charging at 15 km/h

$$\frac{90 \text{ kW}}{15 \text{ km/h}} = 6 \text{ kWh/km}$$

30 Round trips a day over 1km of electric road

$$6 \text{ kWh} \times 30 = 180 \text{ kWh}$$



Static charging

Charging 90 kW during a 5 minute bus stop en route

$$\frac{90 \text{ kW} \times 5}{60} = 7.5 \text{ kWh}$$

20 static charging breaks a day

$$7.5 \text{ kWh} \times 20 = 150 \text{ kWh}$$

One charging platform unlimited for all vehicles

Can charge one bus/vehicle at a time

$$180 + 150 = 330 \text{ kWh}$$

Combining dynamic and static charging can supply the full daily electricity requirements of a bus

In Tel Aviv:

Up to 1,000 buses can be charged by deploying several kilometers of electric road and several static charging stations at bus day terminals

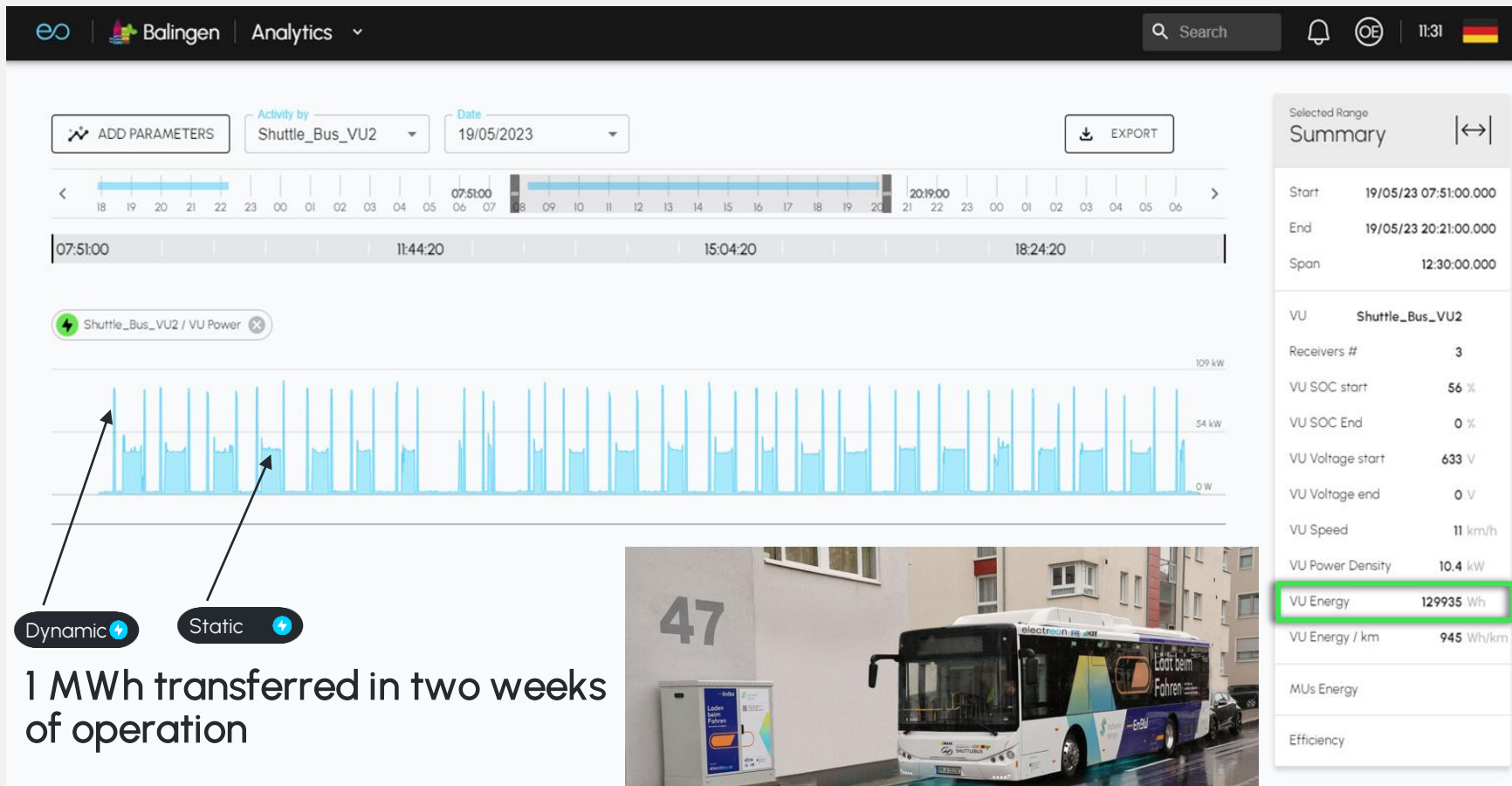
\$70M in savings :

Savings on chargers ~ \$20M cost for 1,000 chargers
Savings on power connection at overnight depot/garage: 90 MW
Savings on batteries \$50M

Advantages:

Operational flexibility
No dependence on overnight charging
24/7 operation

Project: Balingen, Germany



Project: Gotland Island, Sweden



Gotland Island,
Sweden

Application: 1.65
kilometers of dynamic
Wireless Electric public
road and static
charging solutions

Vehicle: 40-ton
electric heavy-duty
truck, and urban bus



electreon

— Thank You

