ELECTROON CHARGING THE WAY FORWARD

Welcome to the Future of EV Charging

Seamless Wireless Charging for Fleet Operators







THE PROBLEM

Existing plug-in solutions limit current fleet operations, require additional real estate allocation and high TCO



THE SOLUTION

Move to an invisible shared charging platform tailored to the fleet's operational needs, that requires no real estate, lowers TCO and no upfront capital requirement

The ElectReon Product Suite

Introducing the most advanced wireless charging solutions for every location





For vehicles in-motion along their daily routes, e.g. buses and P2P truck routes for infinite continuous driving



Semi-dynamic Charging

For slow-moving vehicles e.g. queuing taxis waiting for passengers, entry to logistics hubs and ports, and traffic lights



Static Charging

For stationary charging e.g. bus stations/terminals, bus depots, loading docks, parking lots and street parking ω

ElectReon – Pioneers in Wireless EV Charging





To Integrate with 3 Different Vehicle Types (Bus, Truck & Car)



Patents Covering company's unique technology

Active OEM Vehicle Integration Programs⁽¹⁾

ElectReon's Wireless Charging System



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Management Unit

Above-ground or underground Safely transfers energy from the grid to the charging infrastructure

Roadway Infrastructure Under-road copper coils Transfer power to the vehicles' receivers



Vehicle Receiver(s)

Transmit energy directly to battery and engine



Real-time Management System

The cloud system meters, monitors and manages optimal EV charging at fleet scales

Scalable architecture - supports up to 60 vehicles per Management Unit



ElectReon's Wireless Charging Offers Smooth EV Transition

Eliminating the headache of fleet electrification



Shared Platform for All EVs

No Visual Impacts with Minimum Real Estate Use



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Easy Development

Simple Vehicle Integration

Battery & Vehicle Manufactuer Agnostic



Scalable & Modular Infrastructure



Minimal Investment, Maximum Value

ElectReon will take the risk of ownership and finance the entire infrastructure offering a full charging service

Installation of the system

Easy to use charging management platform Complete operation & maintenance of the system

End-to-end solution for all charging needs Zero initial investment in charging infrastructure required

Wireless Charging for Bus & Taxi Fleets

Use Cases

The Benefits of Wireless Charging for Bus Fleets

The only available solution for dense urban environments

Tel Aviv – Real Use Case



Overnight depot charging Entire fleet charges simultaneously

Causes high energy demand at peak hours

240 kW/h Required bus battery capacity

6 MW Typical grid energy requirement



Wireless charging at terminals / stations

Top-up charging at regular intervals throughout the day

Spreads fleet's energy demand

75 kW/h Required bus battery capacity

2 MW Typical grid energy requirement Phase 1 > Regular 'top-up' terminal or station charging throughout the day



Phase 2 Optimal mix of regular 'top-up' charging at terminal or station with charging along the bus route



Source: Company analysis, IEA EV outlook 2021 for market size of buses.

1. Battery EV vehicles worldwide. 2. Assuming average annual distance of 51,434 km per vehicle and average consumption of 1.39 kWh/KM.

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Wireless Charging -Transforming Idle Time into Charging Time

Additional benefits of wireless charging at terminals and stations

- Zero real estate required all technology can be installed belowground
- Fits bus fleet behavior, with no interruption to daily operations
- Eliminates range anxiety
- Increase operational hours, even run 24/7 services
- Increase utilization of on-site renewable solar energy

An Optimal mix of stationary charging at parking bays and areas and semi-dynamic charging at bus stops



The Only Charging Solution for inside the City

Transforming idle time into charging time

- Keep drivers happy with accessible hands-free charging
- No interruption to daily operations and no long wait times
- Increase vehicle up-time
- Eliminate range anxiety
- Zero real estate required win-win for city and operator
- Enable the utility company to better balance energy demands for the entire city





Conductive plug-in charging at depot

The entire fleet charges simultaneously, typically during peak hours - increasing grid, energy and real-estate requirements.

Entire fleet charging simultaneously drives energy demand peaks





This charging routine results in expensive grid upgrade requirements and often slows electrification programs

Wireless charging anywhere, anytime

Fleet charging is split between schools and depots, spreading energy demand over time and space - reducing grid, energy and real-estate requirements.

Fleet charging spread over time – occurring at regular intervals throughout the day





This transformation to the charging routine results in lower grid upgrade requirements, costs and speeds up electrification programs

Company projects, partners & history

LIVE PILOTS

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Wireless e-Bus charging project in Tel Aviv

DT ...

- 12m city bus
- Stationary charging at terminal with 700 m of wireless Electric Road (700m strip from 2.5 mile route)
- 70 kW of power from the wireless Electric Road
- 70 kW of power from the stationary charging
- Bus can drive 24/7 without dedicated charging time



The road the next morning

Deployment completed in 1 night

Tel Aviv mayor visit and PR Near future opportunities

2021/2022 US Demo

Utah

50m showcase of dynamic electric charging road for trucks and passenger vehicles

Demonstrated Commercialization Capability

Validating offering in live public projects across Europe & MENA

Gotland Island Project

Use Case: Electric bus and electric heavy duty truck Product: Dynamic wireless charging Status: 1.65km pilot has been launched with electric truck and bus Next steps: National tender for 30km ERS for trucks

BASt Project

Use Case: Electric Van Product: Dynamic and static wireless charging Status: Pre-deployment; expected deployment in H1 2022 Next Steps: National tender for ERS highways

Karlsruhe Project

Use Case: Electric bus Product: Dynamic and static wireless charging Status: Static wireless charging system has been deployed Next Steps: Deployment of the dynamic wireless charging system

Lombardy Project

Use Case: Electric heavy duty vehicle Product: Dynamic wireless charging Status: Pre-deployment; expected deployment of 1km electric road system in H2 2021 Next Steps: Tender for 140km toll-road ERS

Tel Aviv Project

Use Case: Electric public bus Product : Dynamic and static wireless charging Status: 700m pilot has been launched with a public electric bus Next Steps: Tender for city bus fleet's charging needs பி

Our Partners



About ElectReon – Pioneers in the Field



Founded in 2013



Pioneers in Wireless Charging in any mode for all Electric Vehicles



Operates the World's Longest Public Wireless Electric Road



Traded on the Tel Aviv Stock Exchange (TASE:ELWS)



Raised ~\$60M to date

Experienced Leadership Team





Oren Ezer Co-Founder & CEO

25+ years of professional experience Former Head of R&D at Elop Barak Duani CFO

10+ years of experience as a key finance leader, including at PwC Former CFO at Apostherapy Israel



Amir Kaplan CTO

20+ years of professional experience Former Program Manager at Elop



Hanan Rumbak Co-Founder & Chief Scientist

40+ years of professional experience International expert in high-power wireless charging systems



Charlie Levine CMO

10+ years of professional experience Former B2B/G Marketing Manager at Moovit



Noam Ilan VP BD

15+ years of professional experience

Former co-founder and director at Eilat Eilot Renewable Energy

ElectReon – a History of Innovation

We have been operating as pioneers in the field of wireless EV charging for nearly 10 years and have hit many major technology, partnership and business milestones along the way.



Proven history in promoting innovation in the global transport sector and electric vehicles

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