

The **Electric Vehicle (EV)** space is set to explode in the very near future, bringing **huge business opportunities** in EV charging

Current **Adoption** factors

- LOWER** carbon emissions
- PHASING OUT** ICEs by 2050
- CHEAPER** to fuel
- PURCHASE PRICES** soon equal to ICEs
- EV-ONLY** car production by 2030

Fully Electric by 2030 means...

- 10x** the no. of EV sales in 2023
- €51bn** in estimated energy resale revenues from EV chargers
- 58m** new chargers needed

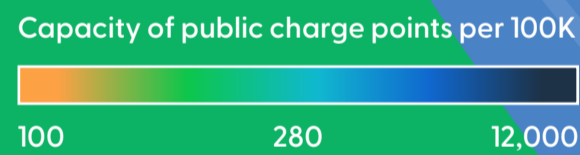
Current **Charging Habits**

- 10%** at work charging
- 10%** public points of Interest (POI)
- 5-10%** public street charging
- 65%** at home charging
- 5%** rapid on the go

EV Charger **Types**

- AC chargers (<22kW)**
8+ hrs
- Slow DC chargers (22-80kW)**
2-4 hrs
- Fast DC chargers (80-150kW)**
less than 1 hr to fully

Where are the chargers?



Key **Players** in the Charging Landscape

- Charge Point Operators (CPO):** the charge point owners
- Charging Station Owners (CSO):** the economic beneficiaries of the chargers
- Charging Point Analytics:** technology identifying and planning charge point locations
- Mobility Service Providers (MSPs):** those who facilitate charger payments
- Roaming Platforms:** linking MSPs and CPOs
- Electricity Suppliers:** supplying the energy and electricity grid

Challenges

- PAYMENT**
Different charge points use different MSPs, meaning a driver needs to set up with various payment apps
- BUREAUCRACY**
The red tape surrounding the process of setting up charging points
- PEAK TIMES**
Energy management during peak times is a challenge
- HEAVY DUTY VEHICLES**
More complex charging needs such as data flow between vehicle and freight operator scheduling systems
- RANGE ANXIETY**
Battery performance is a big concern for the industry