Electric Vehicle Charging Services in CEE


Peter Badik
Co-founder
I truly believe 2016 and beyond will be pivotal in terms of how people around the world will get from Point A to Point B.

*I believe we’ll see more change in the automotive industry in the next five to 10 years than in the past 50.*

Game changers like shared mobility, autonomous driving and alternative propulsion are evolving rapidly.

*Mary Barra*
CEO, General Motors Company
Role of Government:

End of denial
Role of Government: End of denial
Role of Automotive (OEMs):

Create Emotion
Role of Car manufacturers: Create Emotion
Role of Charging Service Providers

Create C – M – I Network

Connected
Managed
Intelligent
Role of Charging Service Providers: C-M-I Network
Nationwide fast-chargers network in Slovakia

- 20 FAST CHARGERS operated by GreenWay
- Max. distance 85 km between two chargers on the core road network

Co-financed by the European Union
Trans-European Transport Network (TEN-T)
Nationwide fast-chargers network in Poland

- 75 FAST CHARGERS operated by GreenWay
- Max. distance 85 km between two chargers on the core road network
Connected, Managed and Intelligent network
Electric vehicles – Top energy storage for EU

Year 2020

7 million EVs on EU roads at 35kWh avg battery size and 10kW connection 245 GWh storage capacity 70 GW regulation capacity

Compared to assumed hydro storage that could be provided to Europe by Norway in 2022:

20 GW

Source: GreenWay

Source: EWEA
Electric vehicles – Top energy storage for EU

Year 2040

125 million EVs (apx.50%) → 60kWh battery size → 7.5 TWh storage capacity
10kW connection → 1.250 GW regulation capacity

Compared to expected Total electricity power production:

5.000 TWh generation
1.500 GW installed power
TYPICAL LOCATIONS OF CHARGING INFRASTRUCTURE

- **Highways, transportation hubs.**
  - ~30 min charging time
  - 280 – 300 km/hour of charging

- **Hotels, restaurants, shopping malls, business centers, etc.**
  - ~ 2 hours or more charging time
  - 40 – 50 km/hour of charging

- **Single family houses, parking garages of apartment buildings, etc.**
  - ~ 6 hours or more charging time
  - 15 – 20 km/hour of charging