

**greenway**

## Electromobility 2.0

### Synergies with Energy sector

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Founder



# GreenWay in numbers

**235**

Chargers in GreenWay network

**5 000**

Registered customers

**90 000**

Charging sessions executed

**1,2 GWh**

Charged in GreenWay network

**6 mln km**

Driven by EV drives on energy by GreenWay



# Deployment of charging infrastructure



Delta



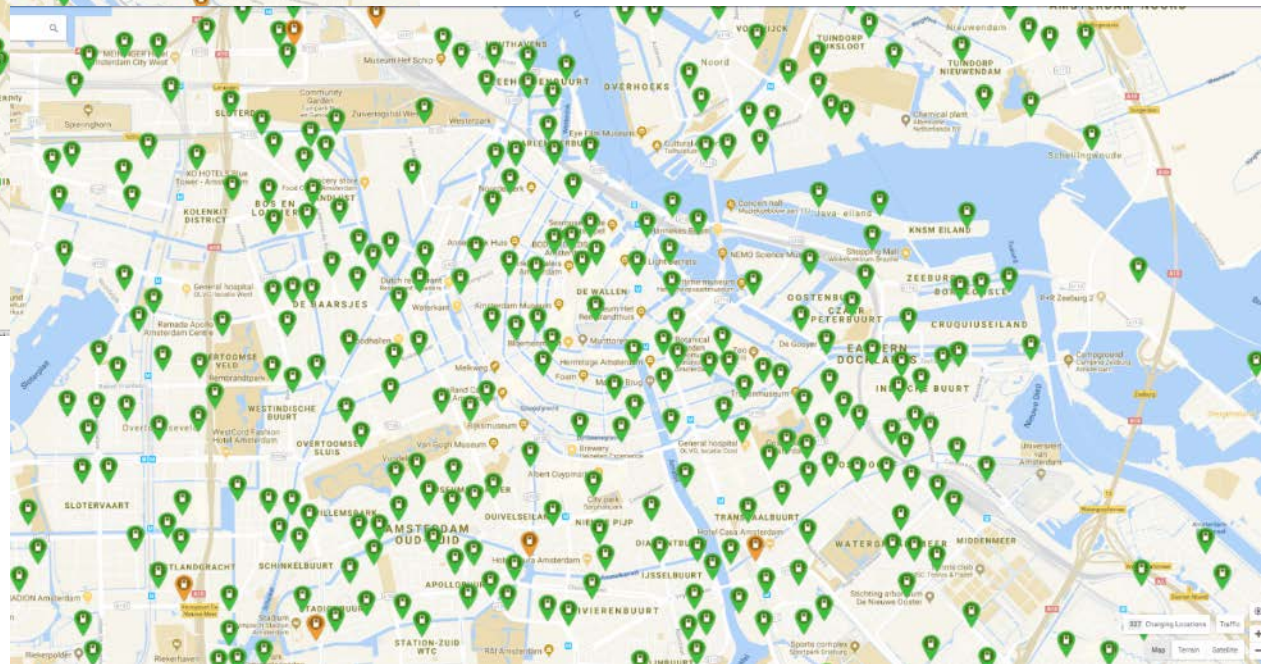
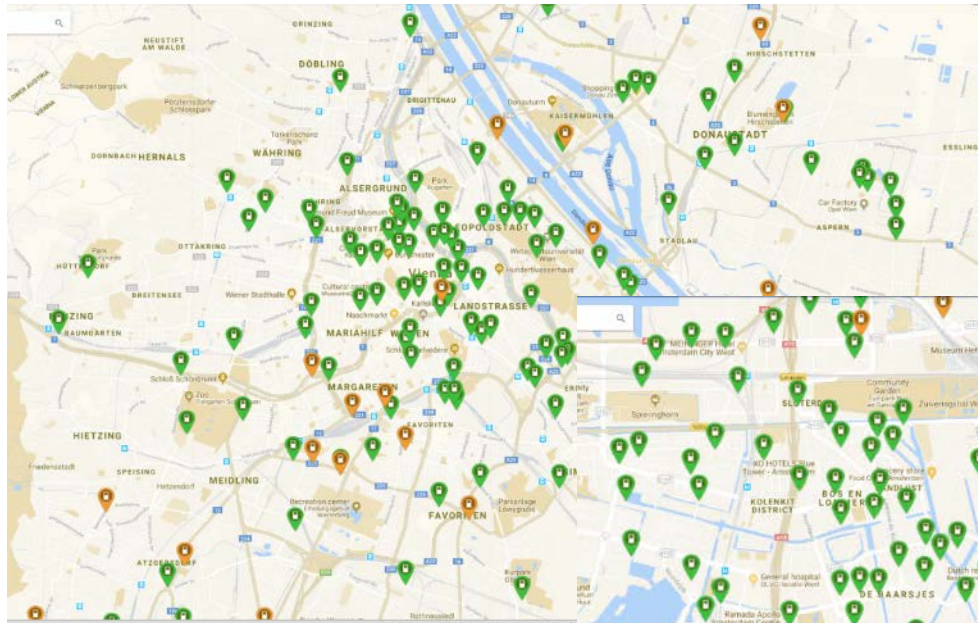
Efacec



# Electromobility 2.0

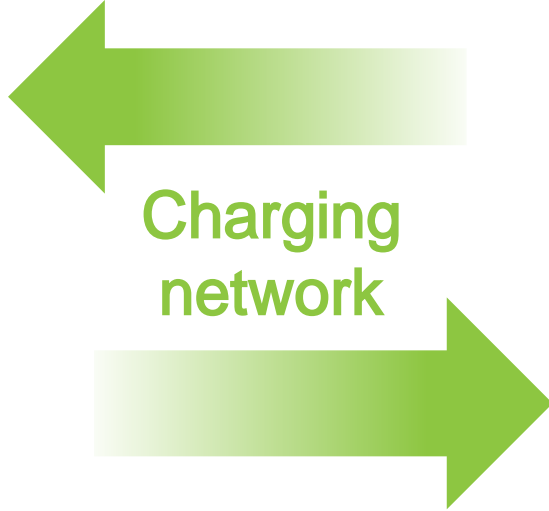
Providing of  
charging services is  
becoming more  
complex and more  
mature business...





## Integration with energy system





3% of EV in Europe  
approx . 7 mil vehicles

at 35kWh  
avg battery size  
and 10kW avg  
connection

245 GWh storage  
capacity  
70 GW regulation  
capacity

Compare with **current Wind power** capacity in  
Europe **170 GW**



## Integration with energy system

EV customer should benefit from fair share of the value of smart charging or conversely, ensure they bear a fair share of true cost of non-responsive charging.

# Integration with energy system

## Smart pricing

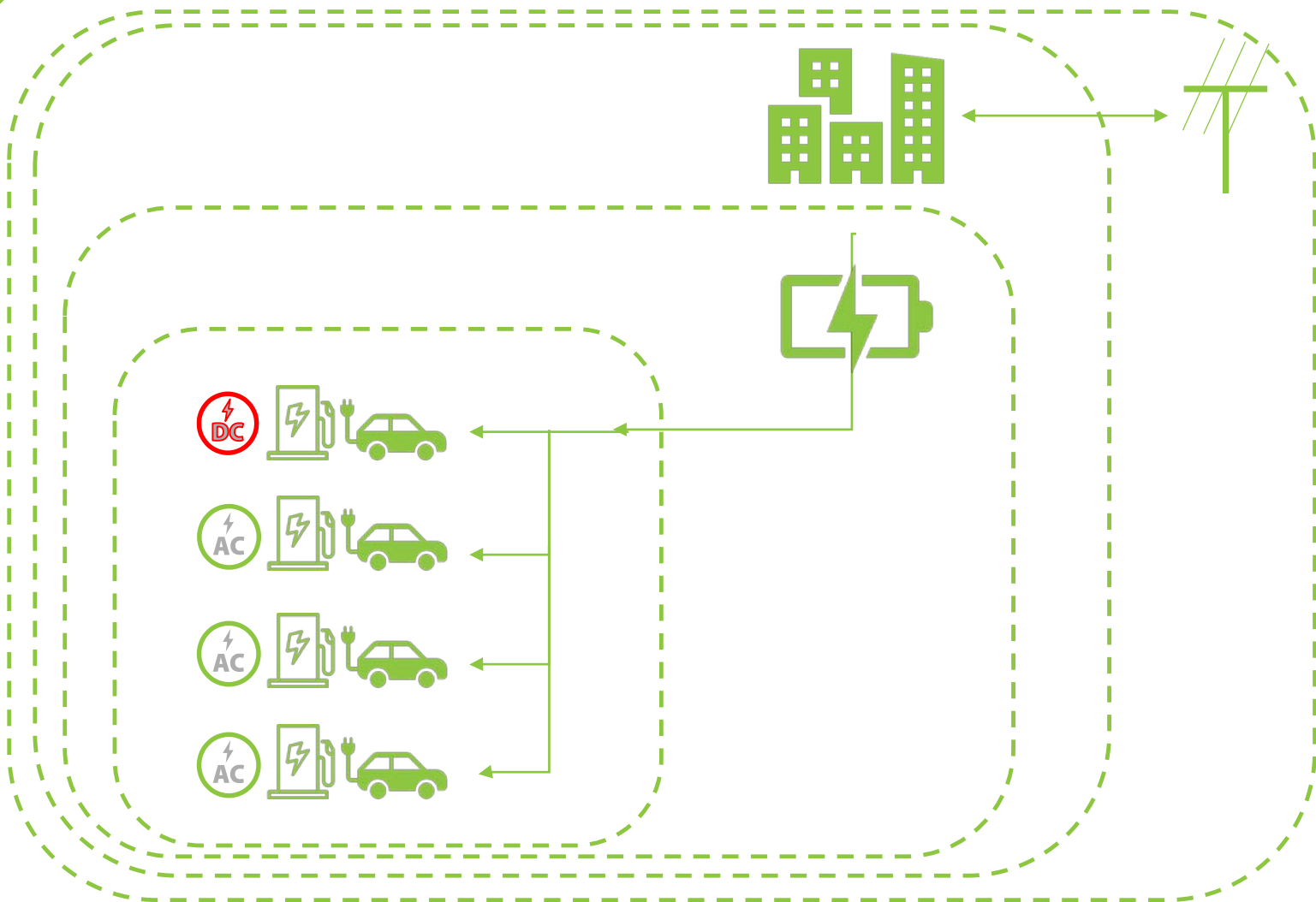
- ☺ To encourage and properly reward charging which is beneficial for the grid
  - Stage 1. Structure of network chargers which supports the rollout of charging infrastructure in low utilization environment >>> **lower fix and higher variable charge !**
  - Stage 2. Structure of Real time pricing reflects full value of demand side flexibility

## Smart IT technology

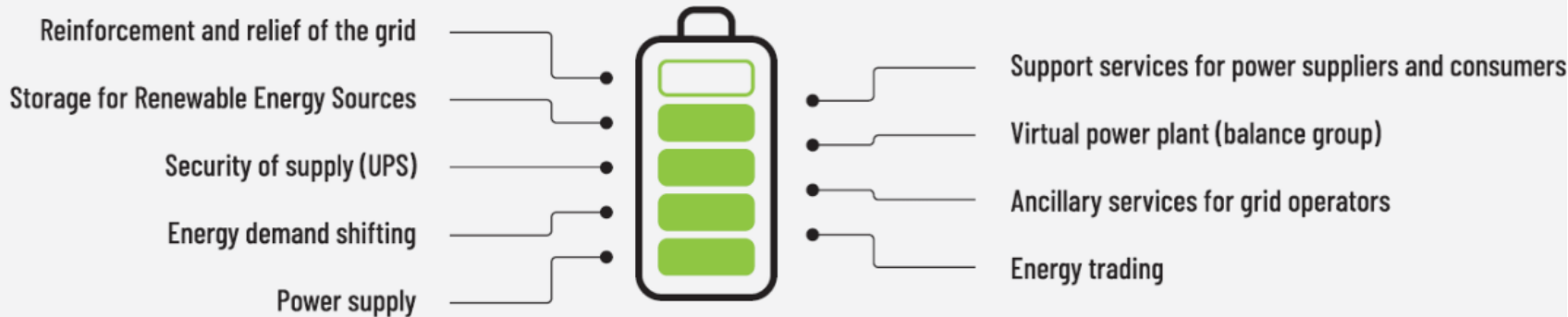
- ☺ Improve user convenience and easy of use of smart charging

## Smart infrastructure

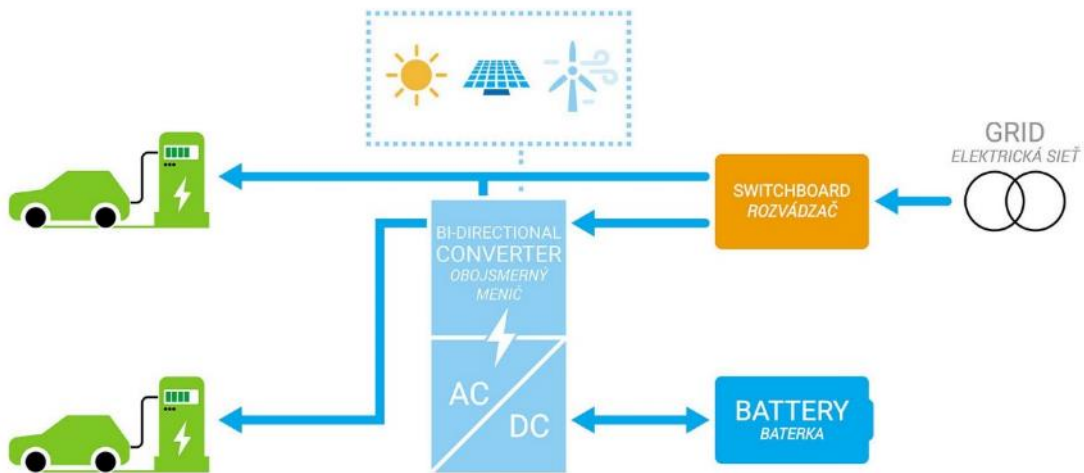
- ☺ Making best use of existing grid and capable to benefit from smart pricing and technology
- ☺ Providing flexibility both on local (micro level) and global grid level



# Battery storage benefits



# Deployment of stationary battery systems



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# Technical parameters of Wattbooster

| Parameter                       | Value  |
|---------------------------------|--|
| Invertor input power            | ≥ 50 kW  |
| Invertor output power           | ≥ 60 kW  |
| GridBooster output power        | 100 kW (e.g. 60 kW from battery via Invertor and 40 kW from grid)                                |
| DC Voltage range                | 450 V ~ 720 V (Invertor DC voltage range will cover complete operating voltage range of battery) |
| Round Trip Efficiency           | > 80 %   |
| Stand-by consumption            | < 500 W, at room temperature   |
| Power factor                    | -0,8 ~ +0,8  |
| Operating temperature range     | -30°C ~ +50°C  |
| Noise level                     | ≤ 65 dB (measured within 20 cm next to housing)  |
| Anti-islanding mode             | System will automatically shut down when electrical grid power is no longer present              |
| Automatic power outage recovery | System will turn-on automatically after end of power outage                                      |
| PV ready                        | System is prepared for PV source integration   |
| Modularity                      | System is prepared for upgrade of additional power modules.                                      |

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