GreenCharge in Oslo

Urban Mobility Days
30 September 2020

Paal Mork, City of Oslo

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 769016.
How can we reduce climate gas emissions?

- is a global concern.

How can I be sure to get my EV charged?

- is an everyday concern for many people.

GreenCharge demonstrates technologies and business models for smart charging of EVs - as a contribution to reduce global climate gas emissions.
Green Charge Pilots

The pilots demonstrate:
• Smart energy management to reduce grid extensions
• Charging with local renewable energy
• Flexible sharing of charging points
• Solutions for shared EVs, private EVs and LEVs
Oslo: Charging of private and visiting EVs in housing cooperative with 246 flats. **Solution:** Cost-efficient and balanced home charging, booking of charging, local renewable energy production.
How does GreenCharging work?

- Normal charging
- Smart charging

Power consumption for charging EVs in parking garage.

- Grid capacity
- Battery

**Normal charging**

- Normal charging of 30 EVs
- Peaks = 121 kW (+28%)

**Smart charging**

- "Smart" charging - reducing garage's peak
- Peak = 99 kW (+5%)

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What’s in it for Oslo?

- Oslo’s climate goal: **Climate neutral by 2030.**
- Full transition to zero emission mobility is required.
- Charging of EVs will challenge the grid capacity.
- GreenCharge provides: Solutions for smart energy management utilising local renewable energy.

**Number of EVs in Oslo**

- Tax exemptions and user benefits have given increase in EV sales.
- Oslo has deployed 1,900 public chargers and supported 25,450 private chargers.
- 57% of cars sold are EVs.

Oslo's climate goal: Climate neutral by 2030.
What’s in it for Europe?

GreenCharge advises and guides 12 uptake cities on their way to electrification of transport.

GreenCharge provides guidelines for integrating e-mobility in SUMP.

Evaluation activities are based on the CIVITAS evaluation framework.

Project outcome is communicated to policy makers, industry and society.

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Partners
Thank you!

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