

Learnings from operations in Denmark from the first V2G installations

Martin Messer Thomsen
EV Test



Introduction

- Been working with electric vehicles for 20+ years
- Consultant in e-mobility with strong focus on electric busses and trucks
- Worked for NUVVE for 3 years with the world's first V2G operations



Parker project and Frederiksberg Forsyning

- First commercial V2G installation operated by NUVVE
- 10 chargers from Magnum Cap in Portugal

https://parker-project.com/wp-content/uploads/2019/03/Parker_Final-report_v1.1_2019.pdf



Aggregation is all about trust in the product

Eco Grid project on Bornholm

Private peoples heat pumps

Takes time to build up trust that the service is reliable

http://www.ecogrid.dk/en/home_uk

How V2G can work

It works if the customer can:

- Set a SOC level at a specific time - e.g 80% SOC at 7AM
- Be able to set a minimum level when in V2G mode - e.g 40%
- Can remote start a charge if an unexpected trip comes up

It takes time to build up the trust at the first customers



Visitors from all around the world

- Wanted to see the operations and talk to the drivers
- Main reason: Wanted to understand how V2G can support the grid locally
- Understand the development in hardware as this is still an issue



Contact

Martin Messer Thomsen

Mail: mmt@evtest.dk

Phone: + 45 2721 1338

<https://www.linkedin.com/in/martinmesser/>

