

# **Ensto Smart EV Charging**

## **Smart Otaniemi**





# **Ensto – Electrical Solutions Provider**

> Ensto's Business Units:





- Finland
- Other Nordic countries 
  Ensto Utility Networks
- Other EU countries
- Russia and CIS countries
- Other



- Ensto Smart Buildings
  - Ensto Othity Networks Other
- Russia

5 %

Spain

Finland

Estonia

France

Other countries

PERSONNEL

~ 1600

Personnel

24 %

34 %



Ensto Smart EV Charging



## Ensto and Smart Otaniemi (Evalia)

## > Ensto has been in the EVC business for almost ten years

- > Started as a HW manufacturer
- > Expanded into the SW side of eMobility

## > Ensto and Smart Otaniemi

- > Good way to contact with other players on the market, including competitors
- > Enables collaboration in order to advance eMobility
- > Research, business potential, piloting etc.

## > Work done so far:

- > Technical requirements for energy aggregation (e.g. by Fingrid)
- > What data to collect and how to integrate between systems (e.g. for Smart Otaniemi platform and aggregation integration)

## The infrastructure

#### Ensto's role



>

## Future development

- > Focus so far on technical specifications and technical feasibility
- > We've been able to map out the *WHATs* and *HOWs*
- > Now a good stage to think about the WHYs
  - > Further researh on the customer and the end user
  - > User profiles to guide concept/design work
  - > Customer/user journey mapping
  - > Combine the user knowledge with technical expertice
  - > Involve the user into the process
  - > Keep business feasibility in mind Sustainability



AN THE STATE

1000

Better life. With electricity.

C CON

1.

THE ET



> Monthly consumption of EV charging at Ensio Miettisen katu 2

Total charging volume: **3656.009 kWh** DECIMAL SEPARATOR IN EXPORT 🔿 Use comma Use point 250 200 150 kWh 100 50 0-65. 65. 20. 20. 20. 01.00. 0.00. 00.00 00. 00. 00. 07.032.019 0.00 0,001 20. 0. 11.05.200 N 29.02.00 2,002,000 20.000 20.000 20.000 20.000 20.000 20.000

> Daily consumption in March at Ensio Miettisen katu 2



#### Consumption vs Charging events count



- > Daily consumption of last 30 days at Ensio Miettisen katu 2 (5.6.2019)
- > Lines show which chargers are used the most

Ö



# ENSTO

