PARKING ENERGY



EV Readiness for Every Parking Space



ELECTRIC MOBILITY DISRUPTION

In 2014, we estimated that 10 – 15% of the cars will be electric by 2025.

Approximately half of the people live in apartment buildings and work at office buildings.

One EV bought instead of an ICE car takes 50 tons of CO_2 emissions out of future emissions.



EV CHARGING IN REAL ESTATE

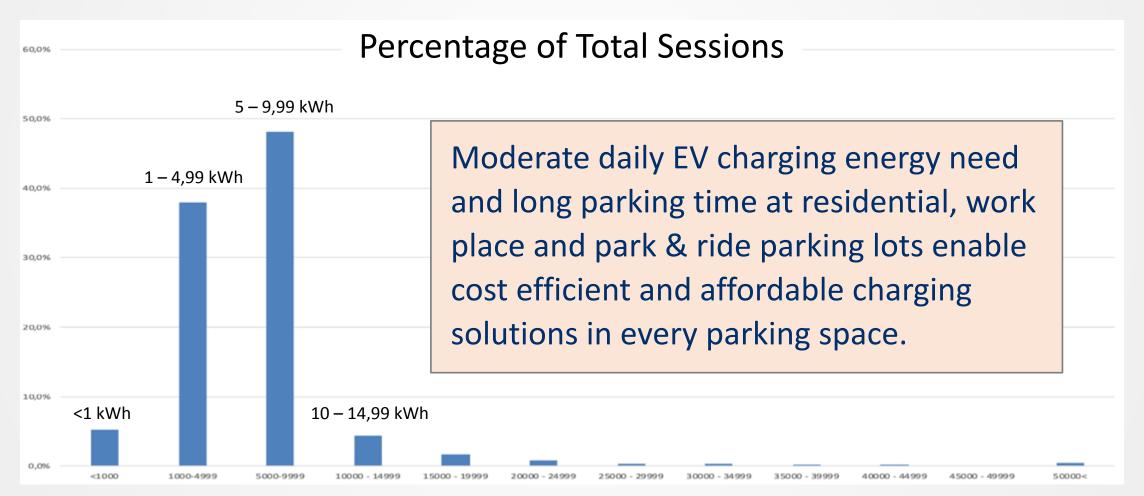
- Scaling the number of EVs
- Financial and profitability requirements for all parties
- Technology and future-proofing
- Limited availability of electrical power
- Multi-stakeholder decision making process
- Smart grid and smart building considerations
- Government and public pressures, such as the EPB Directive





ENERGY USE – MOST CHARGING SESSIONS ARE BELOW 10kWh







PLUG-AND-PLAY CHARGING STATION



The charging unit can be installed in the Quick Connector by plug and play. The users select the power level and price to match their need, from a 3.7 kW to a 22 kW unit, provided as a service.

USING THE EXISTING POLE HEATER CABLING INFRA: 1 500 000 PARKING SPACES



- Type2 and heating
- Left-right independent
- 1x32A or 3x32A
- Schuko 16A
- Multiple manufacturers



Multi-apartment flats with outdoor parking

- Using the existing cables
- All parking spaces as a one go or one-by-one
- Heating and EV charging uses the same cabling
- Cable renovation easy to align with any larger renovation

Key criteria for selection

- Affordability
- Multifunctionality
- User can choose the power level
- Equal for all tenants
- Easy management for Housing company

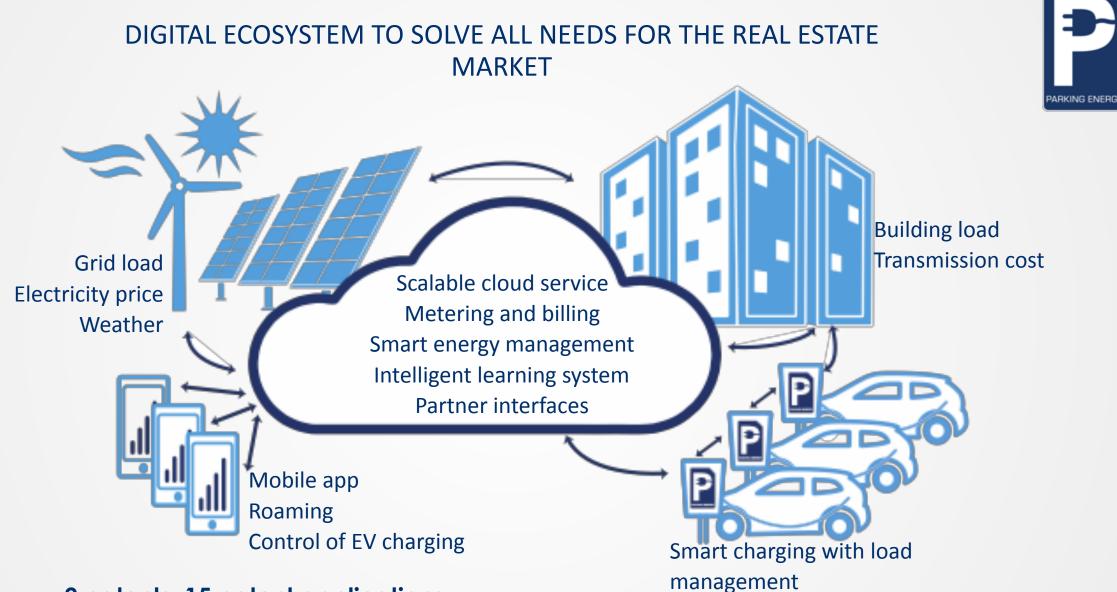


MULTIVENDOR SYSTEM ADDS COMPETITION AND FLEXIBILITY





Charger manufacturers provide Quick Connector compatible charging stations



2 patents, 15 patent applications, open licensing for vertical ecosystem



OFFICE PROPERTY DEPLOYMENTS



Mutual Insurance Co HQ in Helsinki

- 238 spaces, all cabled and ready for EVs
- Total investment 90,000 € under 400 € per space
- Fast increasing take-up with tenants

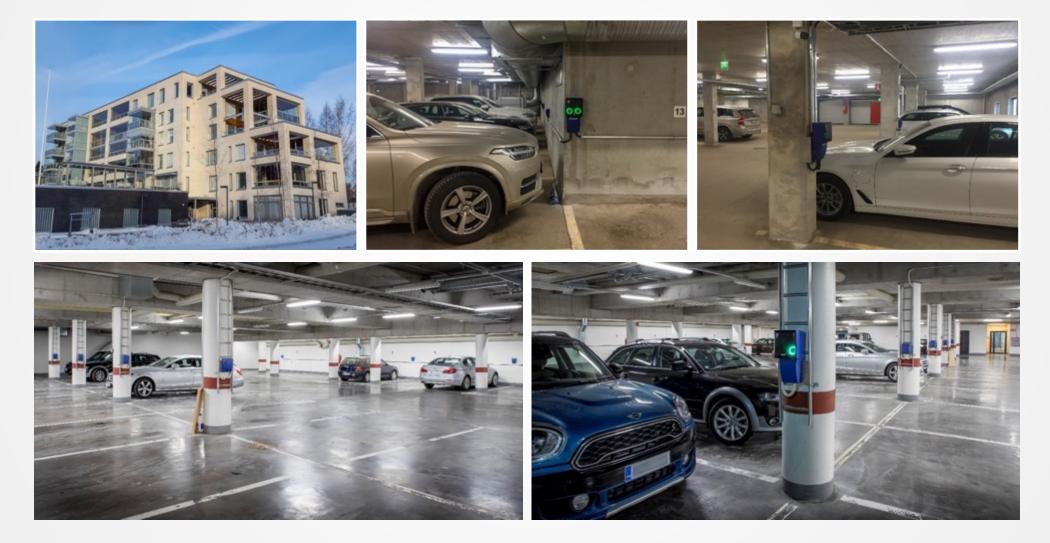


Key selection factors

- Low cabling cost
- Future-proof, choice of charging stations
- Turn-key service for the property ownerSimple process and flexibility for tenants



RESIDENTIAL DEPLOYMENTS – APARTMENT BUILDINGS





PUBLIC PARKING DEPLOYMENTS



Commercial parking operators

- Multiple sites, expanding rapidly
- Exceptionally satisfied customers

Key selection factors

- Future-proof, choice of charging stations
- Intelligent energy management
- Low cabling cost, flexibility
- Customer satisfaction



CABLING IS THE KEY TO EV ACCELERATIC

2. EV Charging are

installed by demand

1.Cabling

Regulation Financing Incentives Market driven Working business models Profitable <section-header>

Everyone can buy No bottlenecks All cars become plug-in

FINLAND'S NEW PUBLIC GRANT BY ARA FOR EV READINESS HAS BEEN A GREAT SUCCESS

Duration and amount:

- Started on August 1, 2018; ends December 31, 2021; four calendar years
- 1.5 Million € / year, including 1.5 Million for the second half of 2018!
- The grant is 35% of the project cost, including VAT, and the largest amount is 90,000 €
- Rental housing companies are capped to 200,000 € / company

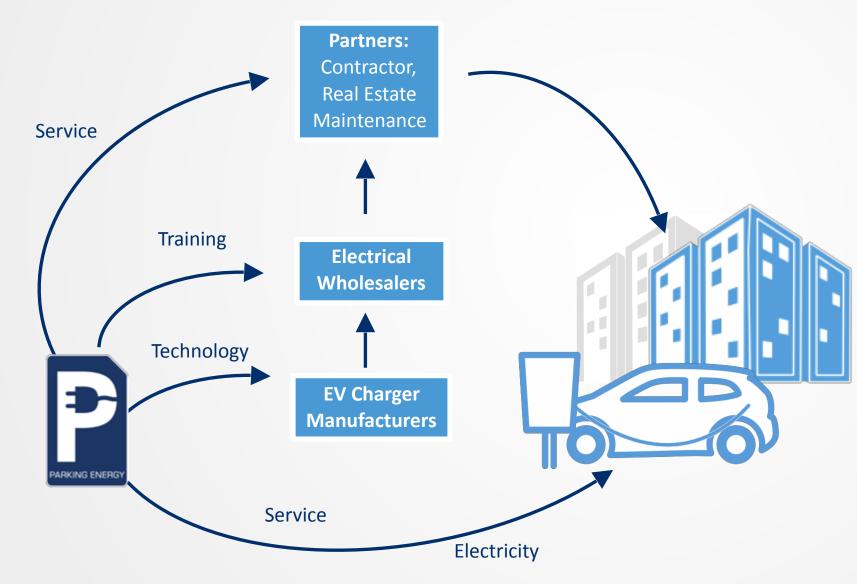
The grant can be used for:

- Cabling systems for EV charging
- Surveys and planning
- Renovating or increasing the capacity of the electrical system
- Earthworks
- Materials and work

The first ARA grant decision was given on October 8, 2018 for a Parking Energy implementation!



ECOSYSTEM BUSINESS MODEL





- Scales through partnership
- License model
- End customer gets a consistent product
- Creates a vertical ecosystem

Thank You



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Climate Solver 2018 prize World Wildlife Fund Sweden 2018

REAL ESTATE INNOVATION NETWORK

Start-up

Real Estate

Top 10 Smart City

Innovation Forum

Germany 2018



nordic

open

Top 25 most

Sweden 2018

start-up

cleantech

innovative cleantech

2015

12-13 JUNE 2018 FINLAND

STARTUP

OF THE YEAR

Smart Buildings Cleantech Venture Day Finland 2018

ONOVe

candidate

Germany

2018

AWARD

eMove360 award

Best Pitch – Mobility and

Wolves Summit Finalist Poland 2018

WOLVES

SUMMIT



Honorable Award Automobile and Mobility Service Innovation Finland 2019



Top 25 Global Company to fight Climate Change **Global Climate** Action Summit San Francisco, 2018



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