



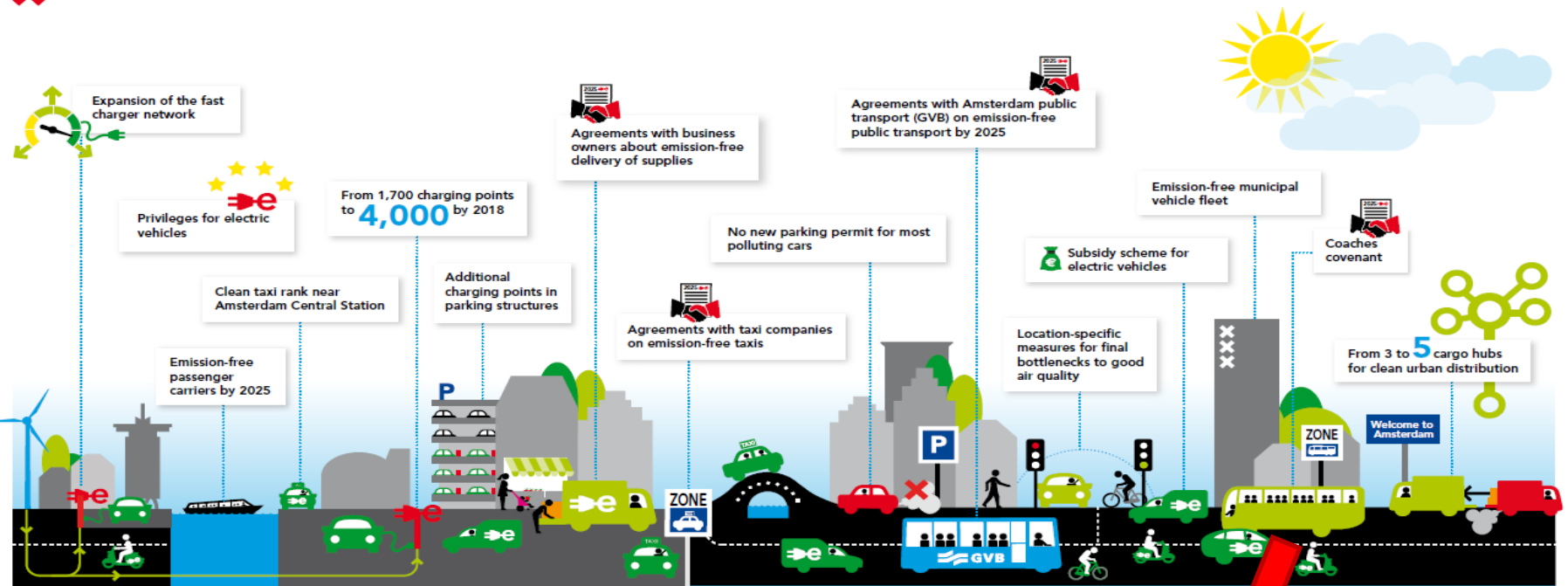
City of
Amsterdam

Smart Charging in Amsterdam



EVEnergy March 29th 2017, Art van der Giessen

2016: Clean air for Amsterdam



Present

Next steps

Future



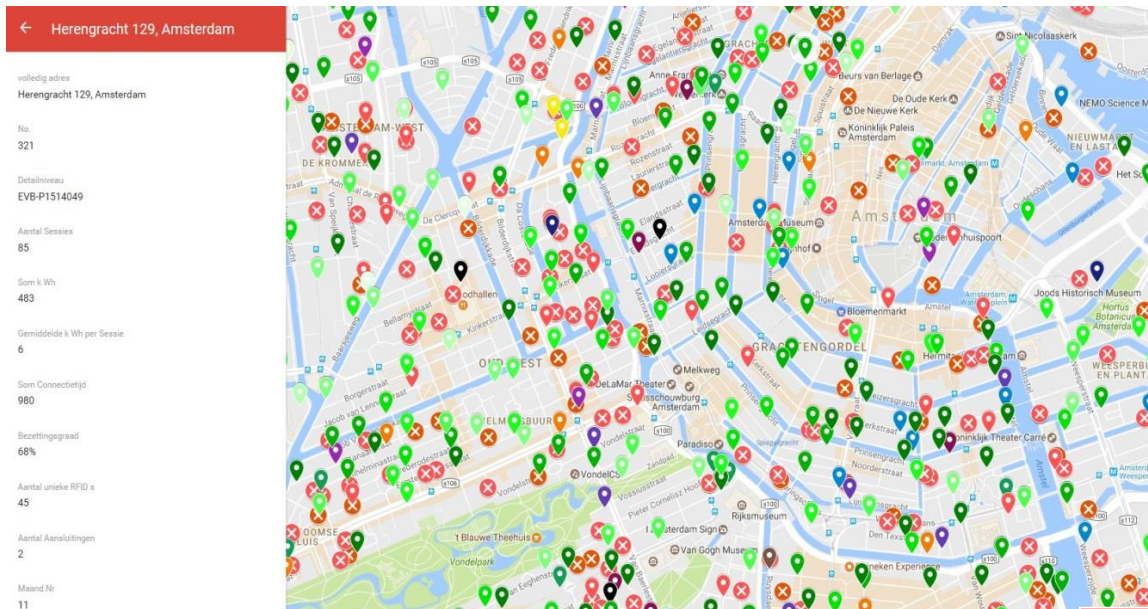
Visit amsterdam.nl/physicalplanning/sustainability

Present: home charging = public charging



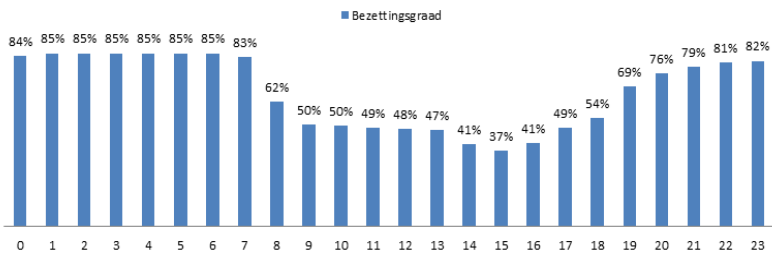


Demand driven roll-out supported by charging data

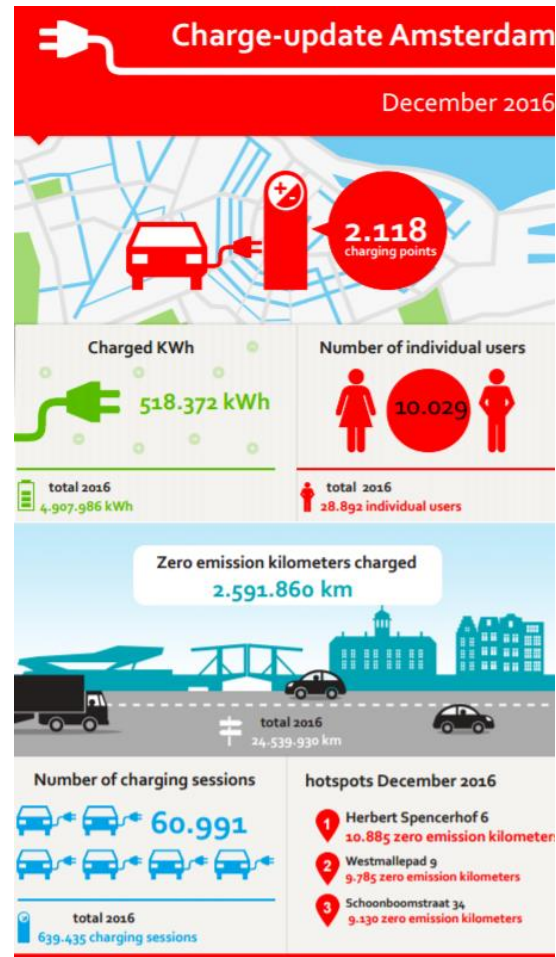
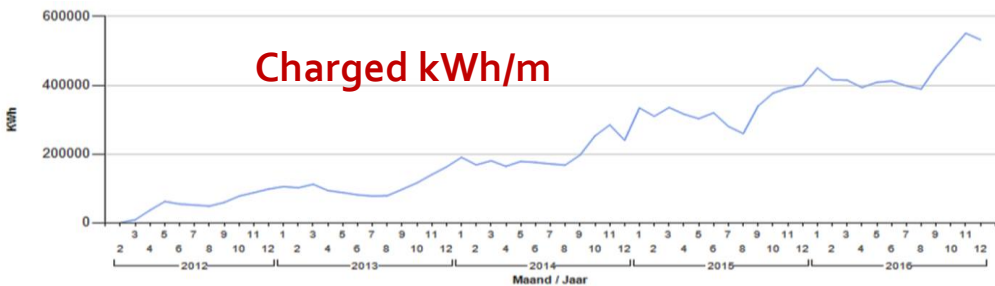
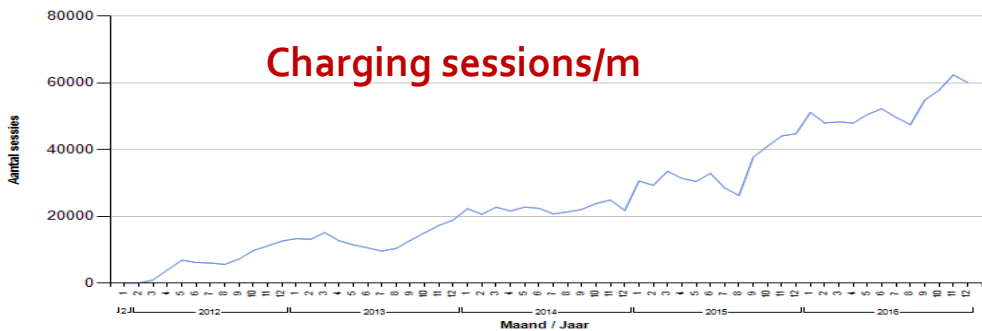
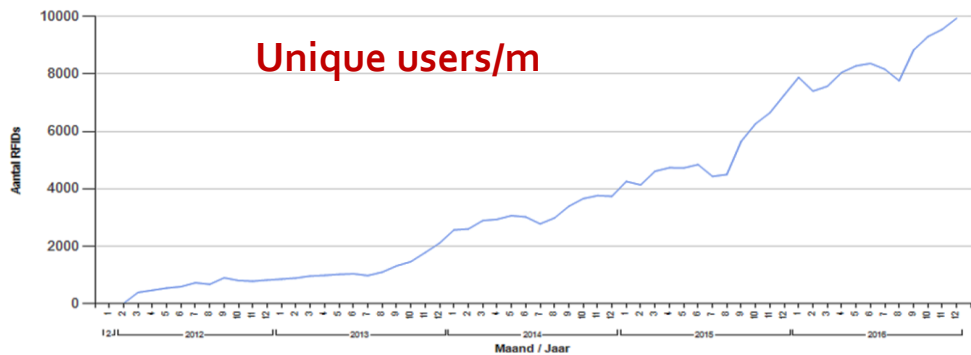


- 2.200 public chargers
- 25+ fast chargers
- 2500+ private chargers

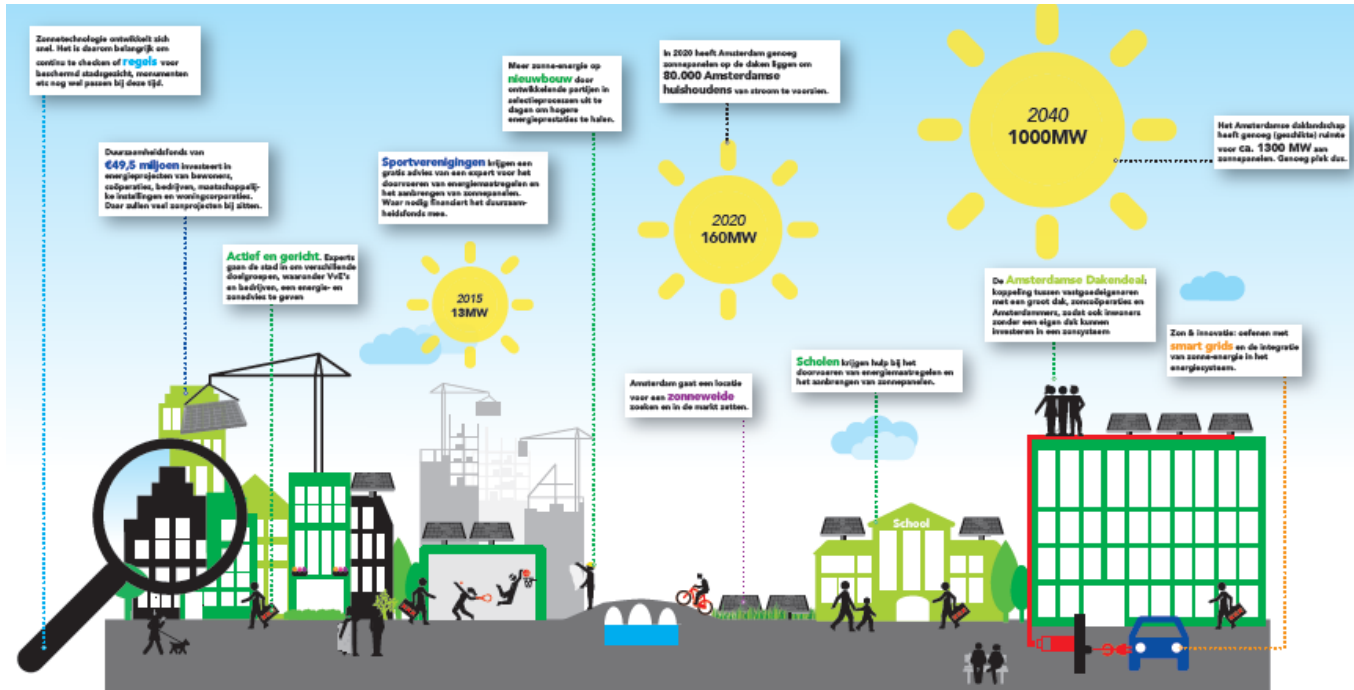
Bezettingsgraad per uur in November



Chargepoint ID:	EVB P1514049				
Address:	Herengracht 129, Amsterdam				
Walking Distance in m	180				
Sessions	85	72	88	45	64
Total use	483	507	508	257	368
Unique RFID	45	40	45	23	38
Average (KWh) per session	6	7	6	6	6
Connectiontime	980	1289	999	679	483
Occupancy rate	68%	87%	69%	46%	32%



Solar Energy Program Amsterdam



ACTIEF EN GERICHT

- Zon website: de basisinformatie op orde
- Duurzaamheidsfonds
- Ondernemers aanpakprojecten

AMSTERDAMSE ZONDOALITEIT

- Afgraven over zon met woningcorporaties
- Afgraven met energie partijen
- De Amsterdamse Dakendeel

FINANCIEREN ZONPROJECTEN

- Financier van zonnepanelen
- Financier van andere aanpakprojecten

ZONNIG REGELS & LOBBY

- Gemeentelijke regels context onder de loep
- Beleidskader: nationale regels behouden
- Coproductiemogelijkheid Rijk en zon

ZON & GEBOEDSONTWIKKELING

- Zon en energie neutraal bouwen: markt uitdagen tot meer zonnepanelen
- Grondgebonden zon

ZON & INNOVATIE

- Project innovatieve zon op meezakken of kantoor
- Smart grid project op gebied elektrische mobiliteit, opslag en zon

ZON OP GEMEENTEDAKEN

- Gemeentebestuur voor Amsterdamse
- Zon op gemeentebestuur in eigen beheer

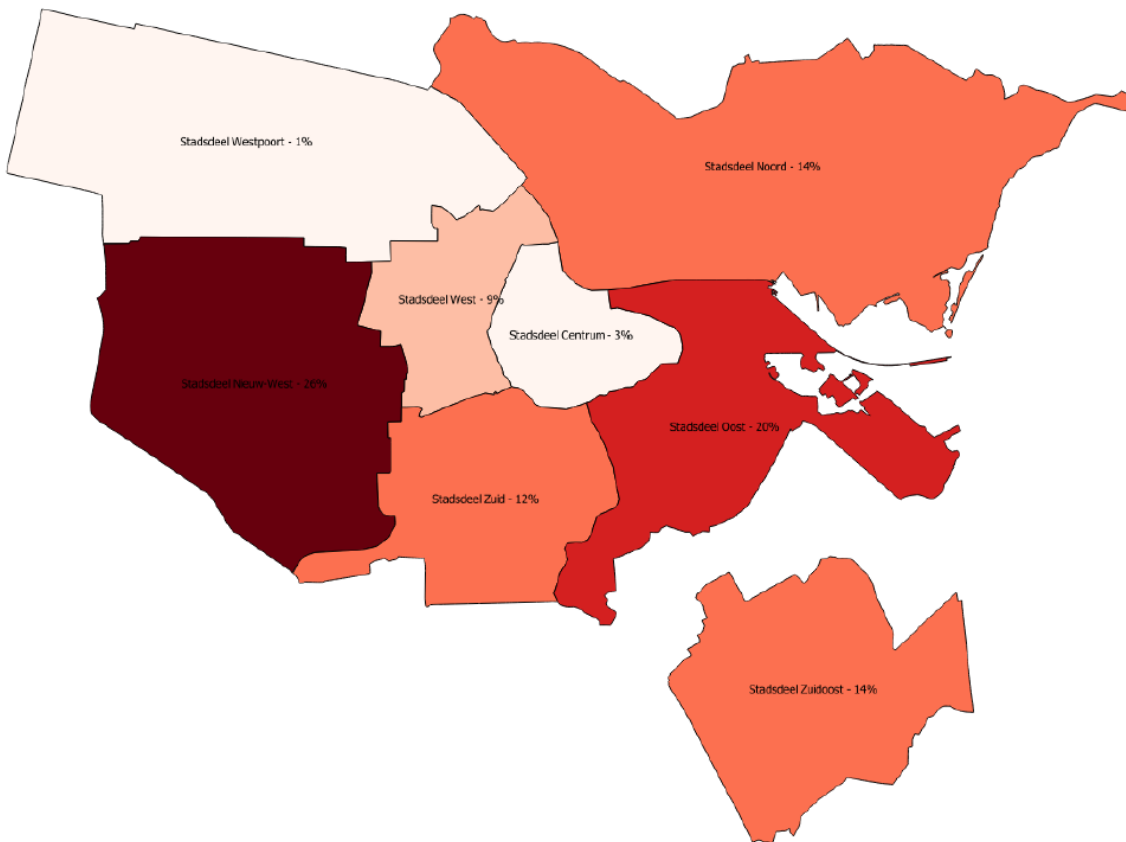


Schaalsprong Zon
Uitvoeringsprogramma 2016-2018

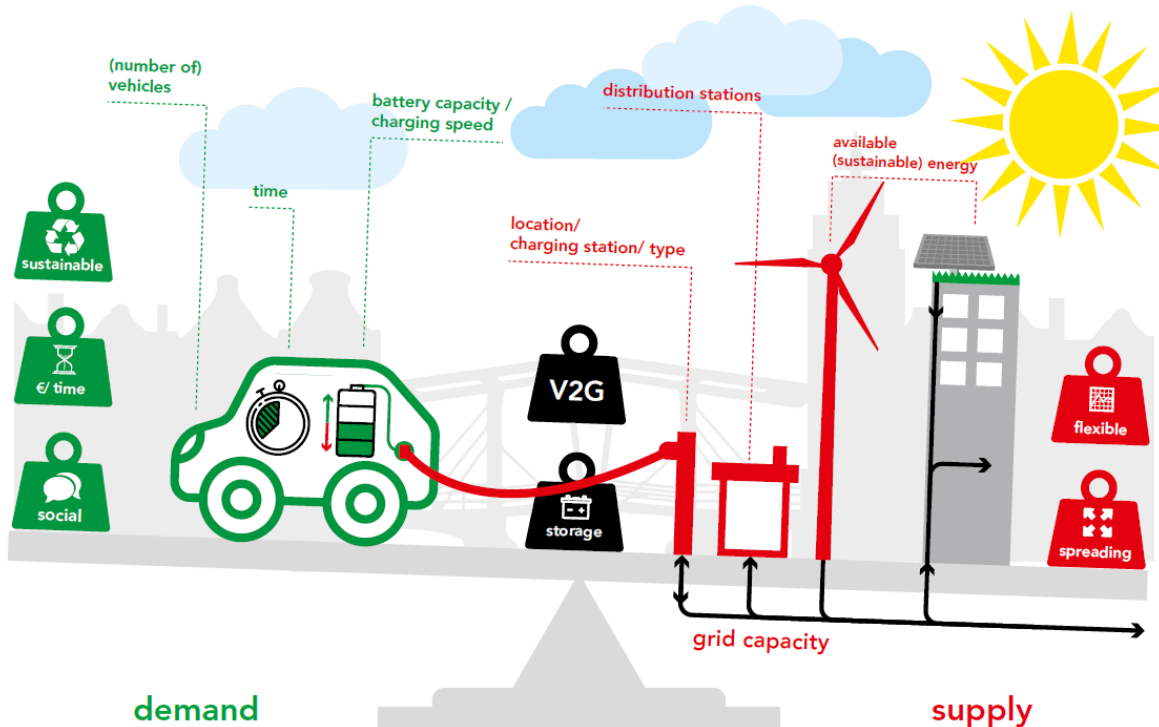




Solar panels (systems) in Amsterdam



Challenge: building a future proof EV-Energy system



Interreg
North Sea Region
SEEV4-City

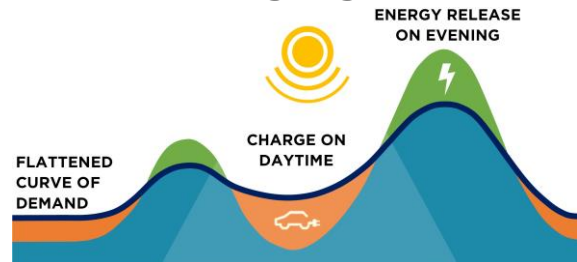
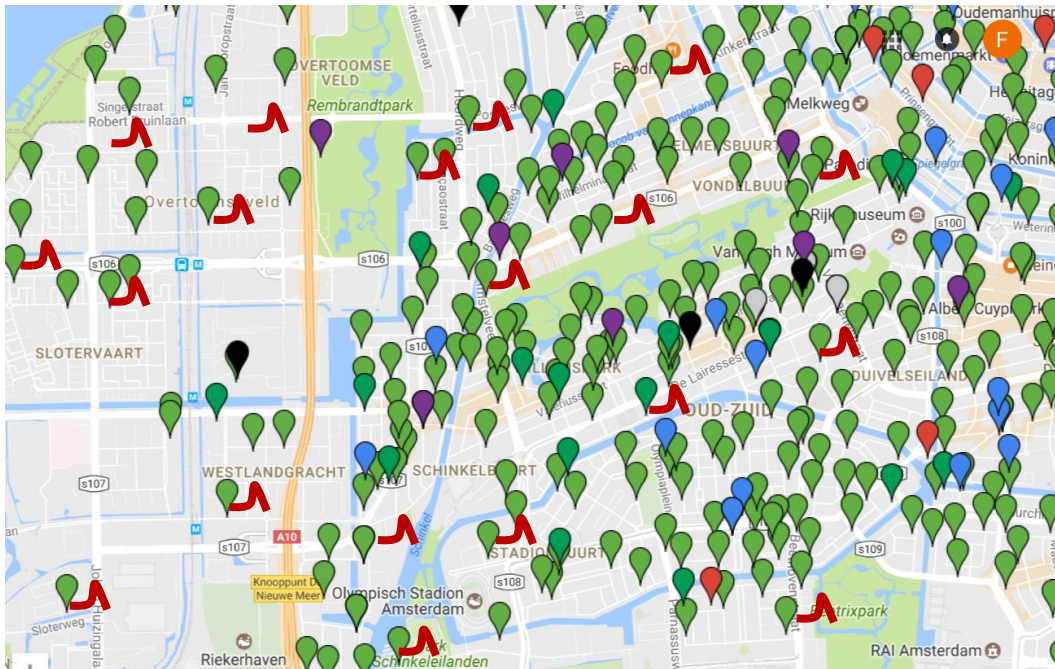
European Regional Development Fund





Project: Smart charging & optimizing the grid

 100 charging stations:



Interreg
North Sea Region
SEEV4-City

EV530 Symposium
Stuttgart, Germany, October 9 - 11, 2017

Building a Smart Charging Ecosystem in Amsterdam

Getting ready for mass market of (next generation) EVs

Frank Geerts (Lander, Utrechtseweg 68, 6812 AH Arnhem, frank.geerts@alllander.com), Bart Vertelman (City of Amsterdam), Marjolijn Kelder (Naam part of Vattenfall), Friso Schuring (Lander)

Abstract

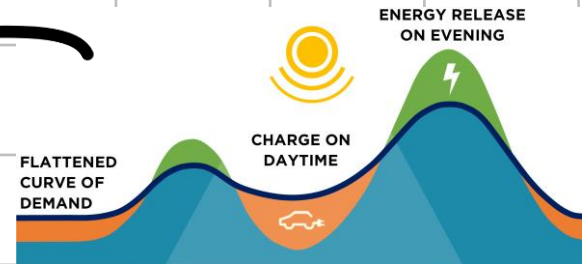
The E-visionary award handed out to the City of Amsterdam during the World Electric Vehicle Symposium in Montreal in 2016, confirmed once more no city in the world is as far ahead in the transition to electric transport as Amsterdam. New innovative projects are being started and executed in 2017 and the city of Amsterdam, together with partners Lander, Nuon and ElaadNL, propose to the organization of EV530 the first release of the outcome and results of the project "Building a Smart Charging Ecosystem in Amsterdam".

In order to be prepared for the mass market of next generation EVs, Amsterdam is currently executing the

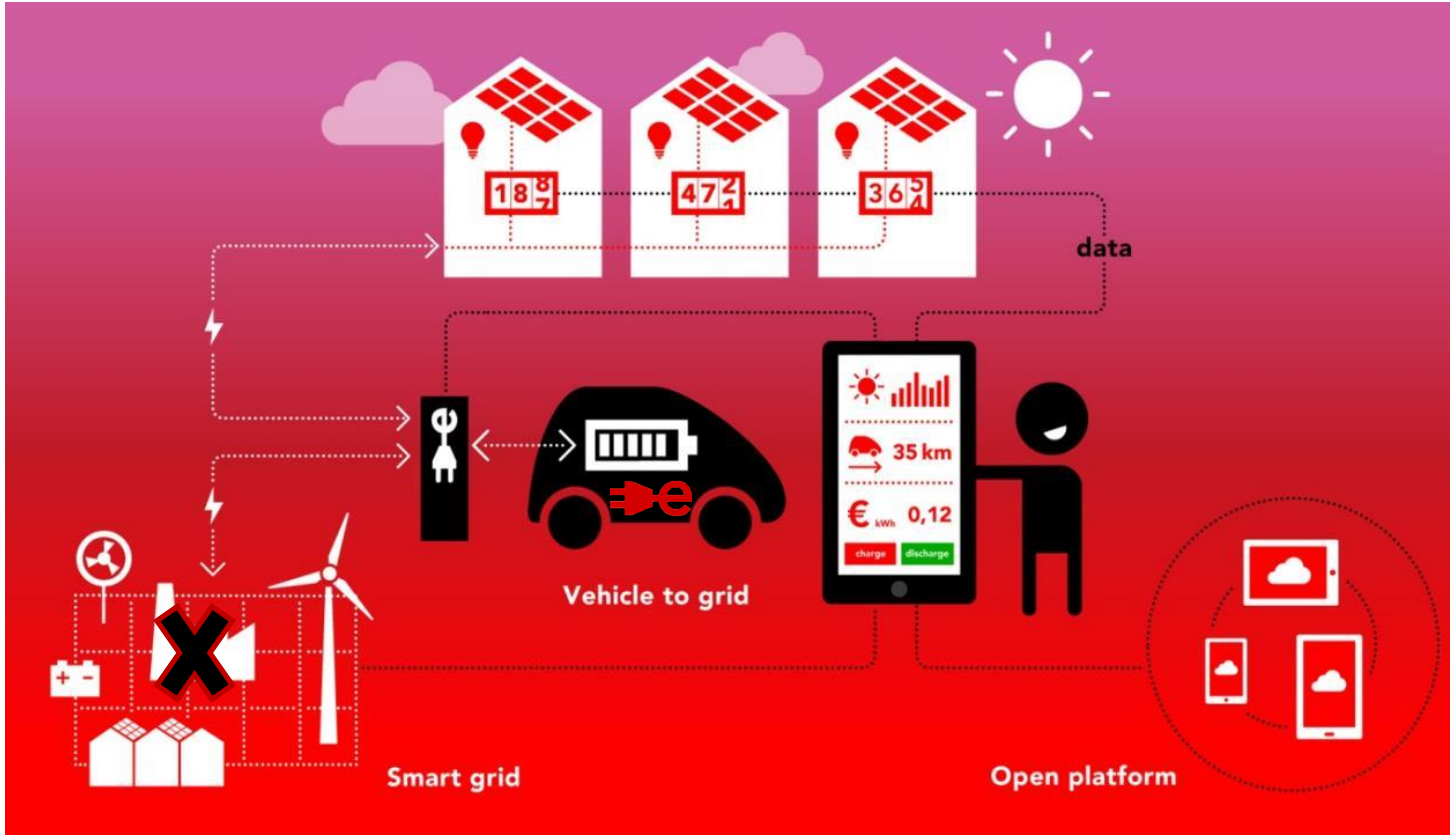
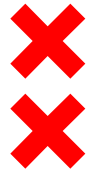
"Learn from applying a local capacity profile"



....and choice of sustainable energy, €,....



Future: EV as part of energy transition





Thank you,



Art van der Giessen

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