



**2050**  
**CliMobCity**  
Interreg Europe



European Union  
European Regional  
Development Fund

# Amsterdam electric Amsterdam towards a zero emission 2030

Jeroen Schutter  
Municipality of Amsterdam

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Amsterdam towards a zero emission 2030



Jeroen Schutter

Clean air through Electric mobility in Amsterdam



# The Amsterdam Metropolitan Area

- Size – City 220 km<sup>2</sup>
- Size – AMA 2,580 km<sup>2</sup>
- Population – City > 850,000
- Population – AMA > 2.4 mil



■ World Europe



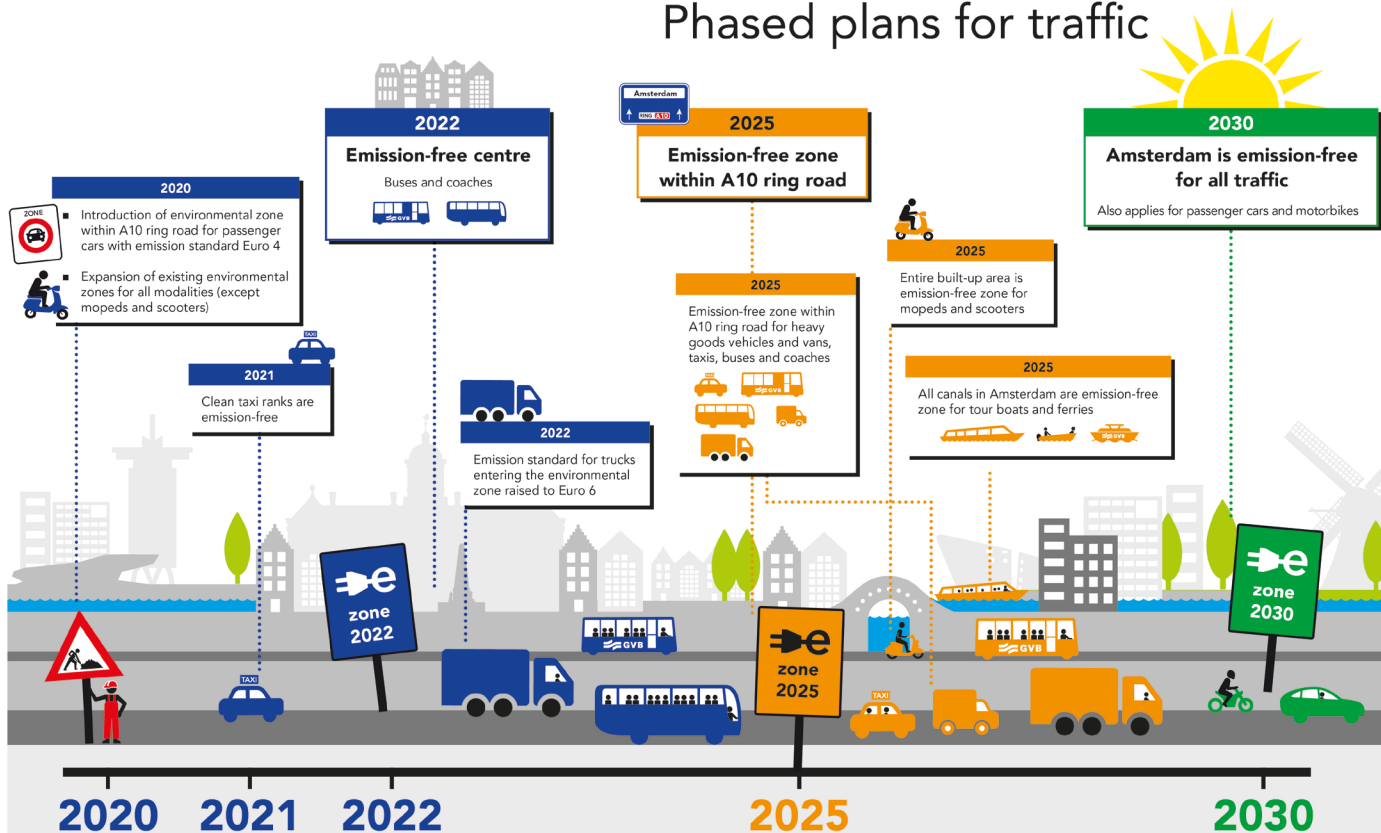
Europe **The Netherlands**



The Netherlands **AMA**

# Amsterdam emission-free

## Phased plans for traffic





## Amsterdam towards a zero emission 2030

**Clean air is the main driver: PM<sub>10</sub>, PM<sub>2,5</sub> and NO<sub>2</sub>**  
**12 months reduced life expectancy in Amsterdam**  
**Strive to comply to the WHO values**

**About 9% reduction on CO<sub>2</sub> for the city**  
**And less sound stress**



# Most environmental zones in one City

And more to come  
the stepping stones towards emission free 2030





# City of Amsterdam



**Emission-free centre in 2022**

For buses and coaches

**Emission-free zone within the A10 ring road in 2025**

For buses, coaches, passenger ships, taxis, vans and heavy goods vehicles, pleasure craft, public ferries (mopeds and scooters in the entire built-up area)

**Emission-free Amsterdam in 2030**

For buses, coaches, passenger ships, taxis, vans and heavy goods vehicles, pleasure craft, public ferries, mopeds and scooters, passenger cars and motorbikes.

## Amsterdam emission-free Traffic zones



## Amsterdam towards a zero emission 2030

Stimulate by

Privileges  
Grants  
Compensation







**Amsterdam**  
**750 years old**  
**lot's of canals**  
**young population**  
**180 nationalities**

**Present:**  
**home charging =**  
**public charging**



# **✘ ✘ ✘ Demand driven roll-out supported by charging data simulation models and heatmaps**

## **Examples within city limits**

- **3.000 public street stations and 3.000 in e.g parking lots**
- **43.000 unique users in 2018**
- **Up to 100.000 monthly charging sessions**
  
- **900 flexpower- chargers in 2019**
- **2 hydrogen stations in 2019/2020**
- **50 fastchargers by 2020**
  
- **More on [www.evdata.nl](http://www.evdata.nl)**

# Monitoring the public charging network for decision- and policy making



**IDO-laad** Home Data Non-summable data Logged in as doedebardok Log Logout

Selection tools (i) Filter based on KPI (i)

**Vulnerability** Show graph selection (4)

**Charging** Sum of kWh (i)

Starting date: Month 10 Year 2015 Ending date: Month 10 Year 2017

Year: 2017 Month: 3

Sum of kWh (i)

Month	Arnold Schonberglaan 7 9	Gustav Mahlerlaan 314	Prinsengracht 419	Reguliersgracht 68
Feb 2017	750	1200	800	750
Mar 2017	850	1200	650	500
Apr 2017	750	700	700	550
May 2017	800	950	750	350
Jun 2017	900	850	650	500
Jul 2017	700	900	700	750
Aug 2017	800	1000	450	550

Legend: Arnold Schonberglaan 7 9, Gustav Mahlerlaan 314, Prinsengracht 419, Reguliersgracht 68

Export current graph

**24 H Occupancy (i)** Show graph selection (4)

Starting date: Month 11 Year 2015 Ending date: Month 11 Year 2017

24 H Occupancy (i)

Day	Goudfraat 18	Grovelingestraat 36	Hendrik Jacobsstraat 5	Van Slingelandstraat 67
1	0.2	0.6	0.6	0.6
2	0.2	0.6	0.6	0.6
3	0.2	0.6	0.6	0.6
4	0.2	0.6	0.6	0.6
5	0.2	0.6	0.6	0.6
6	0.2	0.6	0.6	0.6
7	0.2	0.6	0.6	0.6
8	0.2	0.6	0.6	0.6
9	0.2	0.6	0.6	0.6
10	0.35	0.6	0.6	0.6
11	0.35	0.6	0.6	0.6
12	0.35	0.6	0.6	0.6
13	0.35	0.6	0.6	0.6
14	0.35	0.6	0.6	0.6
15	0.4	0.6	0.6	0.6
16	0.45	0.6	0.6	0.6
17	0.45	0.6	0.6	0.6
18	0.45	0.6	0.6	0.6
19	0.45	0.6	0.6	0.6
20	0.45	0.6	0.6	0.6
21	0.45	0.6	0.6	0.6
22	0.45	0.6	0.6	0.6
23	0.45	0.6	0.6	0.6
24	0.45	0.6	0.6	0.6

Legend: Goudfraat 18, Grovelingestraat 36, Hendrik Jacobsstraat 5, Van Slingelandstraat 67

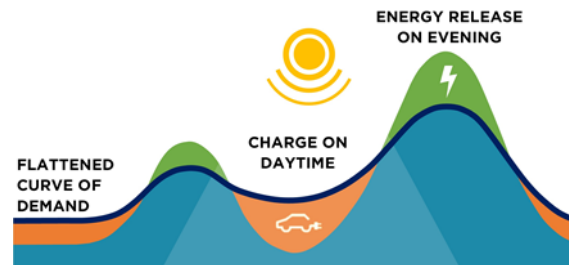
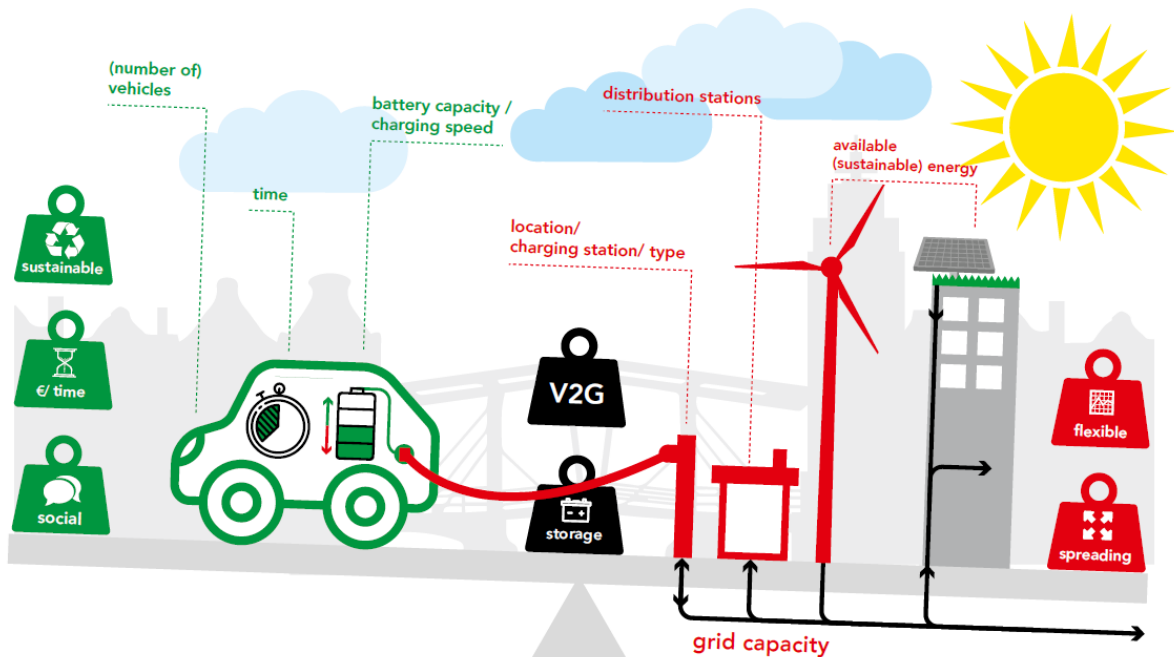
Export current graph

**Car sharing analysis (i)**

Generate report Clear selection



# Smart charging & optimizing the grid



# ✖ Thank you, Questions?



✖ City of  
✖ Amsterdam  
✖

Jeroen Schutter  
Program manager  
Air Quality & Electric Mobility  
City of Amsterdam  
+31 6 5105 5872  
J.Schutter@amsterdam.nl

## Amsterdam emission-free Phased plans for traffic

