

Testlab and activities



A man with glasses and a white shirt is speaking at a podium. The background is a solid blue color with white text. The podium has a blue top with white text. The text on the background reads: "The future — of European competitiveness".

The future — — of European competitiveness

European Commission
Commission européenne

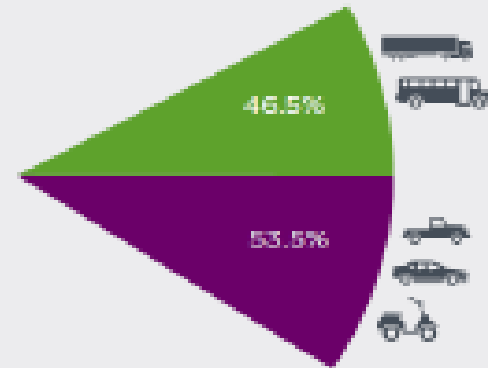
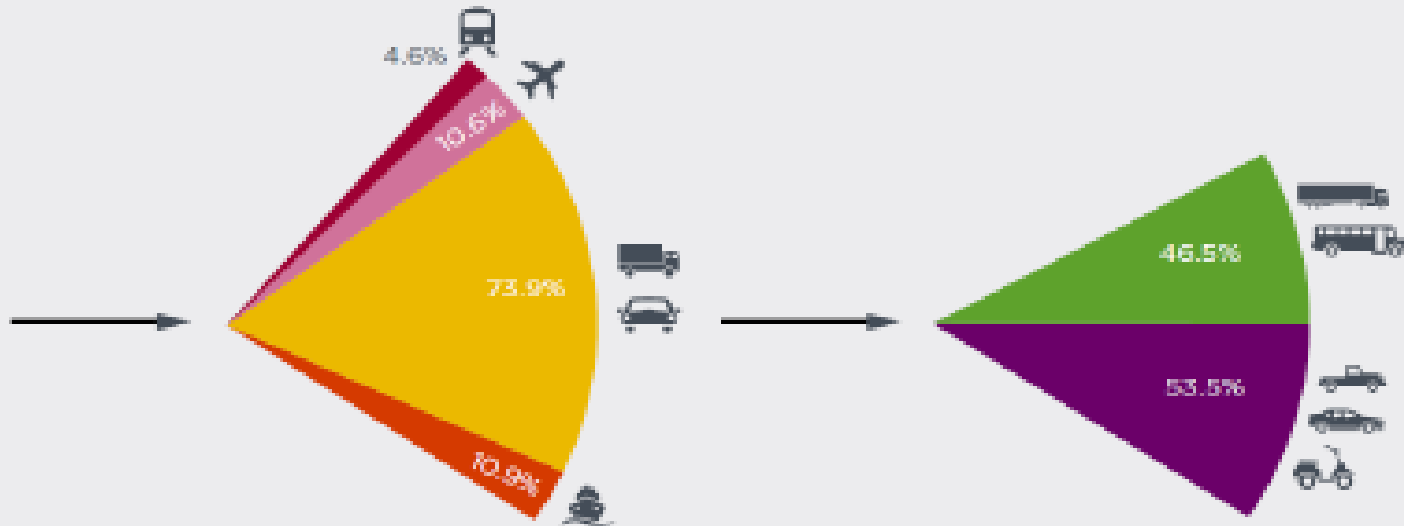
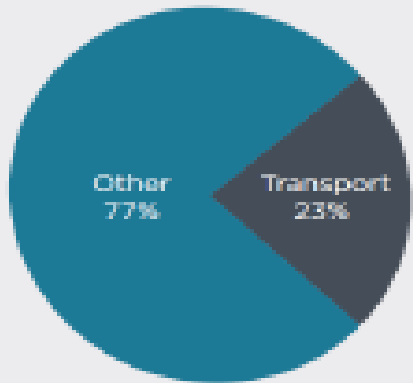
THE TRANSPORT SECTOR

A major contributor to global anthropogenic CO₂ emissions

GLOBAL ANTHROPOGENIC EMISSIONS
≈ 38 GtCO₂

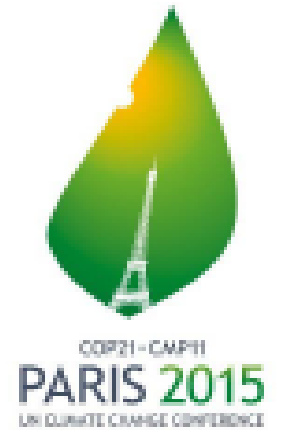
TRANSPORT EMISSIONS
≈ 8.8 GtCO₂

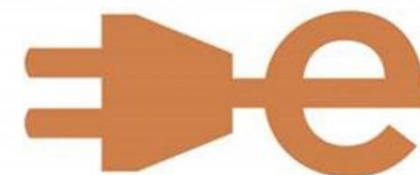
ROAD TRANSPORT EMISSIONS
≈ 6.5 GtCO₂



LEGEND

- RAIL
- AVIATION
- ROAD
- MARINE
- HEAVY-DUTY VEHICLES
- LIGHT-DUTY VEHICLES

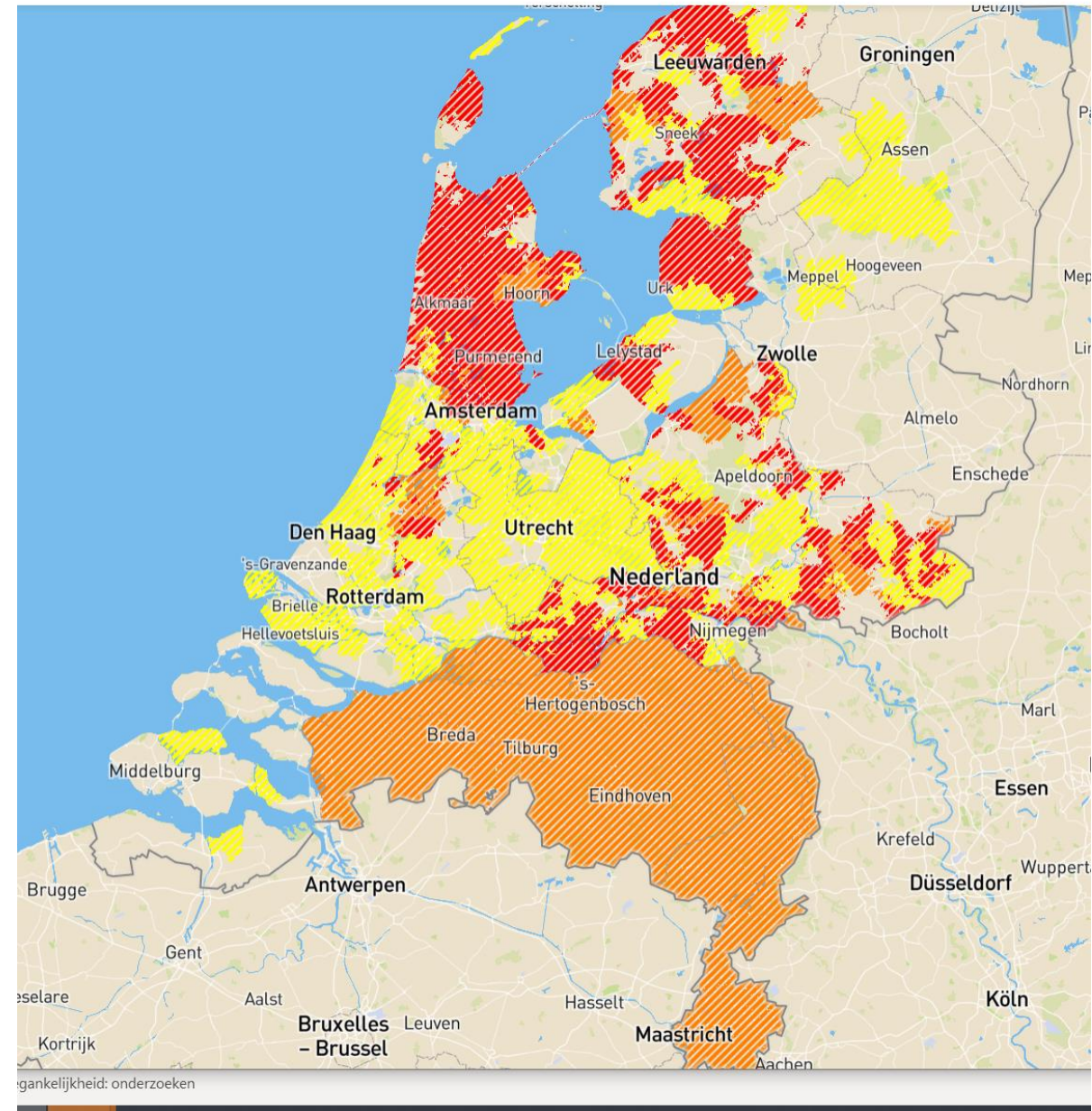




Nationale
Agenda
Laadinfrastructuur

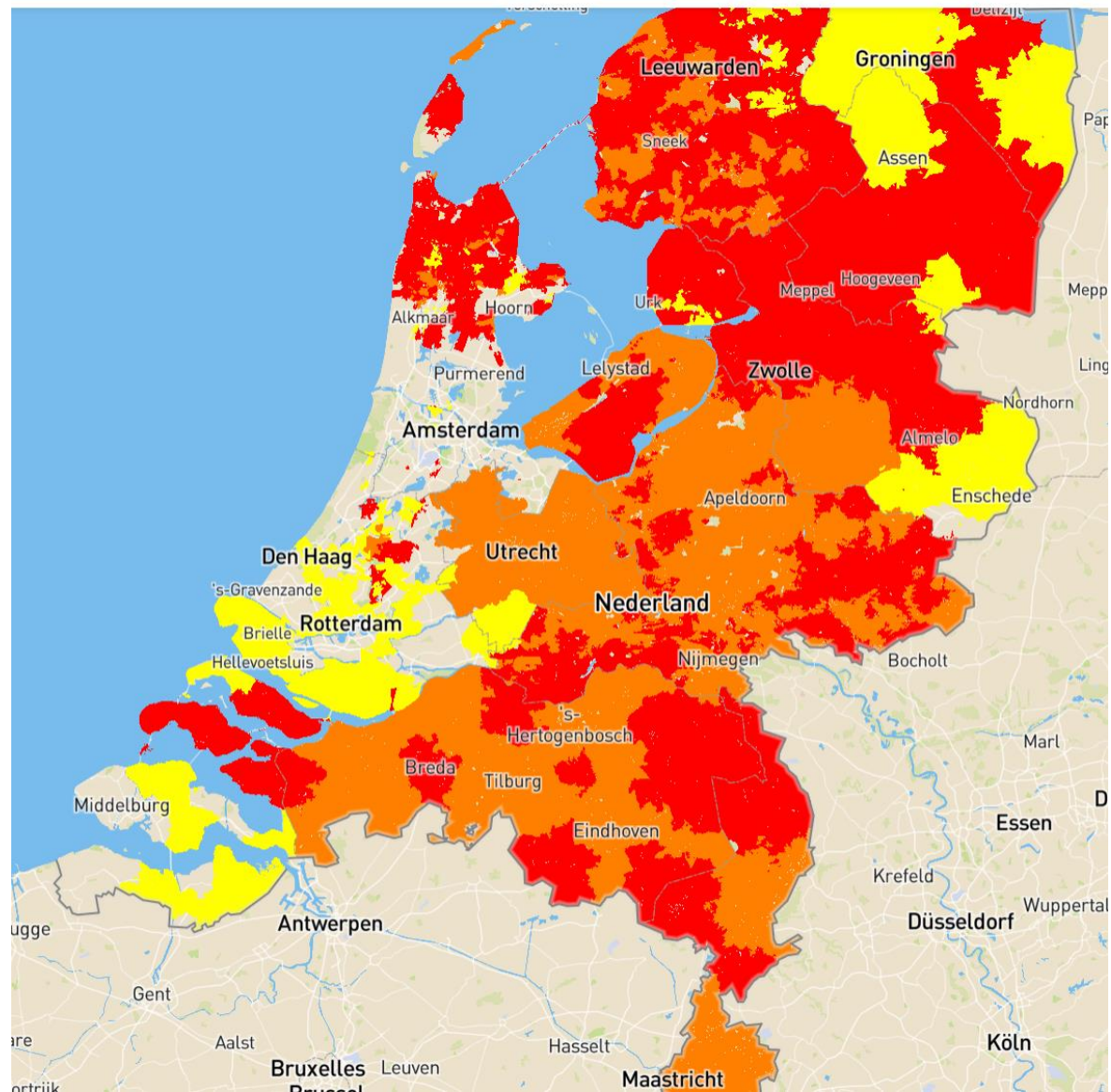
Capaciteitskaart afdome elektriciteitsnet

Bijgewerkt: 13-10-2022 08:30



Capaciteitskaart invoeding elektriciteitsnet

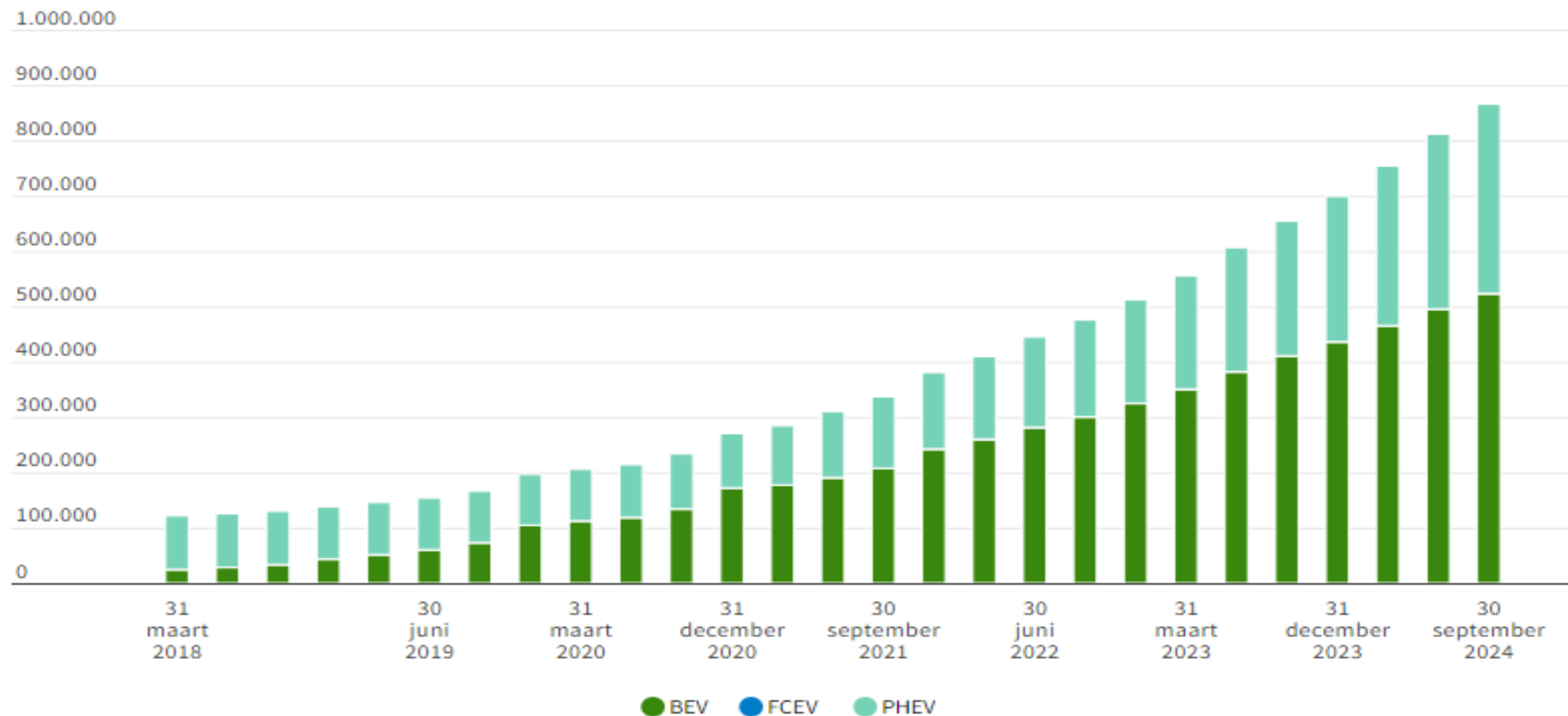
Bijgewerkt: 13-10-2022 08:30



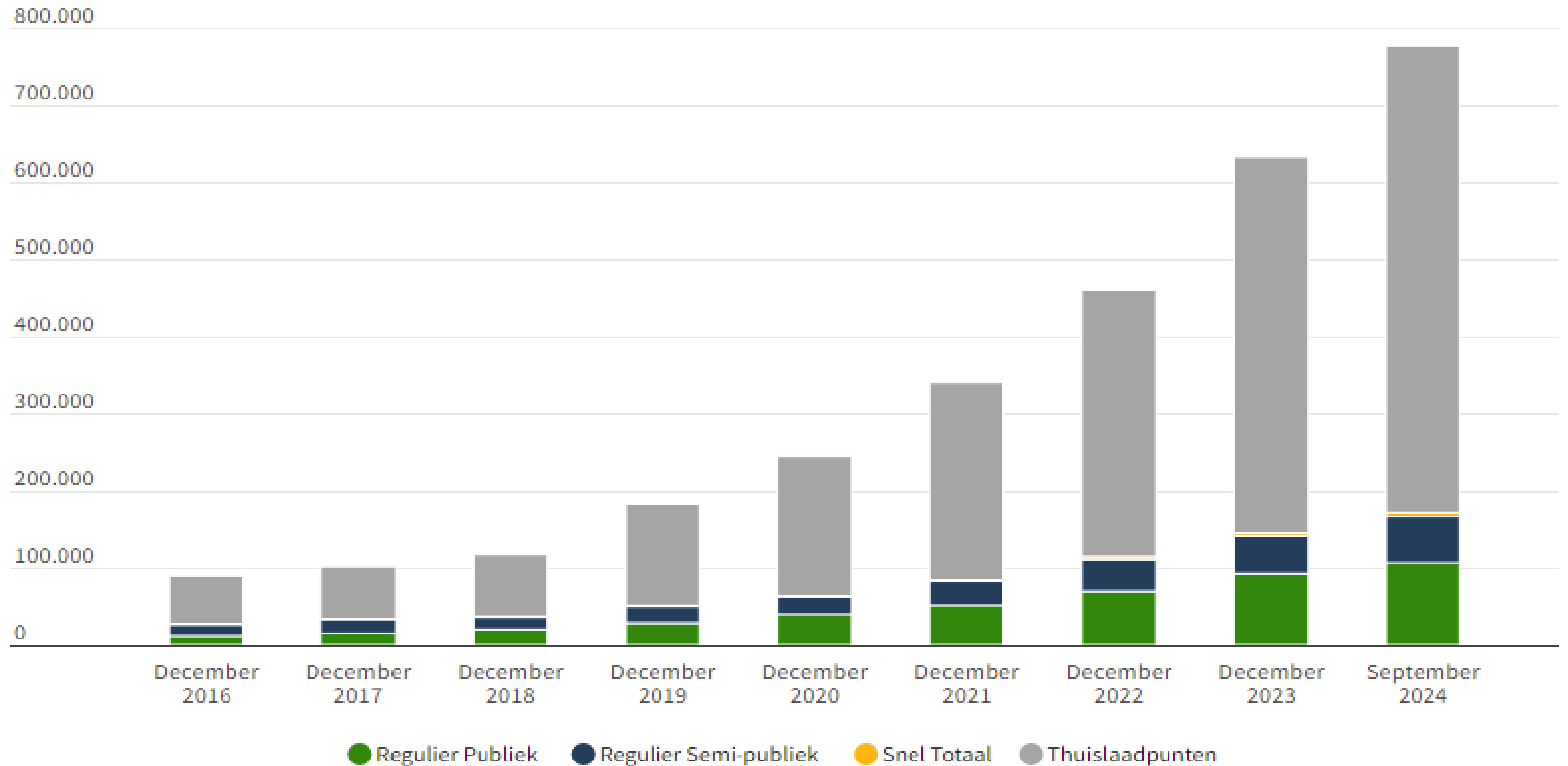


Researching & testing
smart and sustainable charging

Aantal BEV, FCEV en PHEV personenauto's in het wagenpark

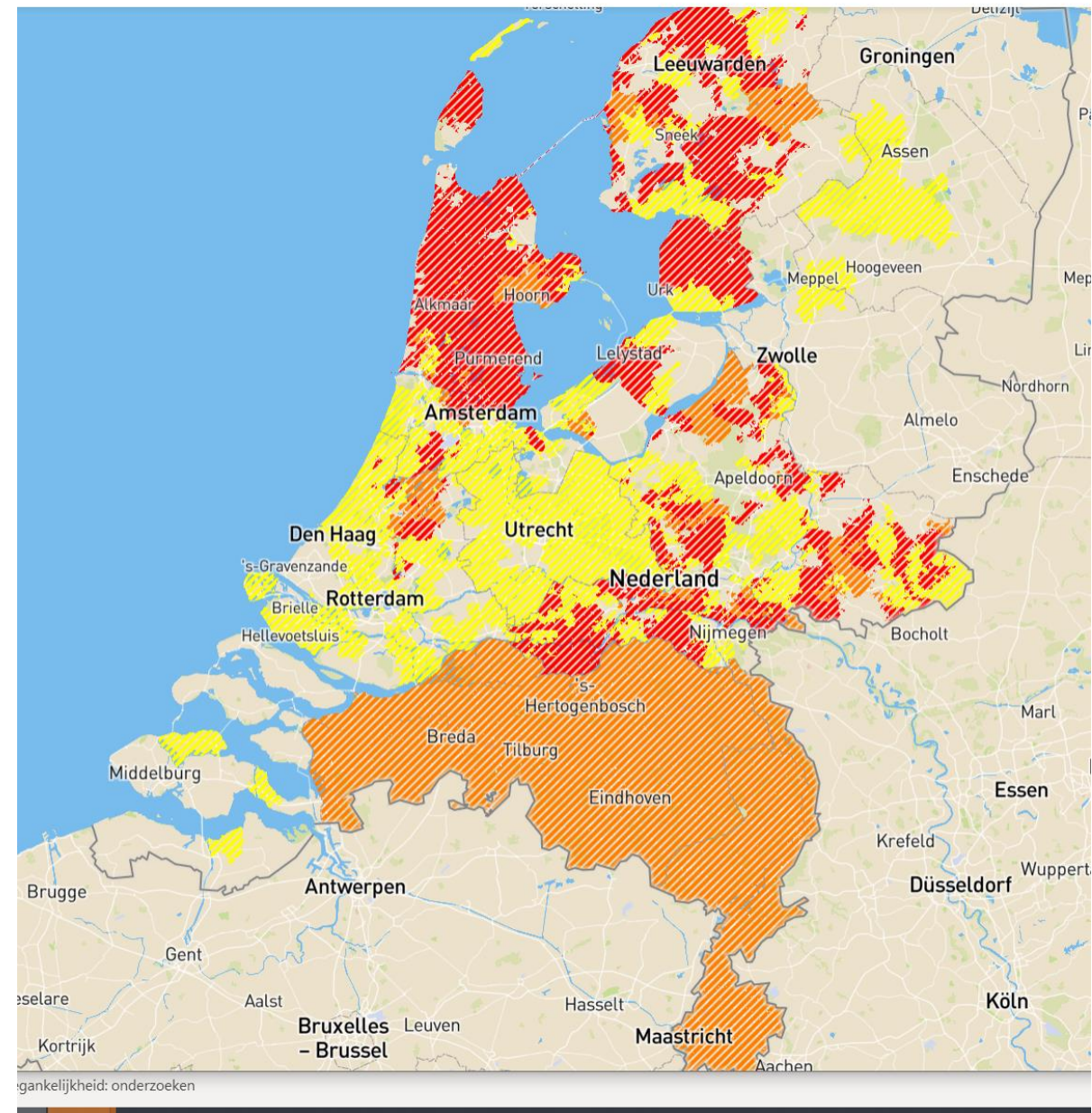


Laadinfrastructuur in Nederland



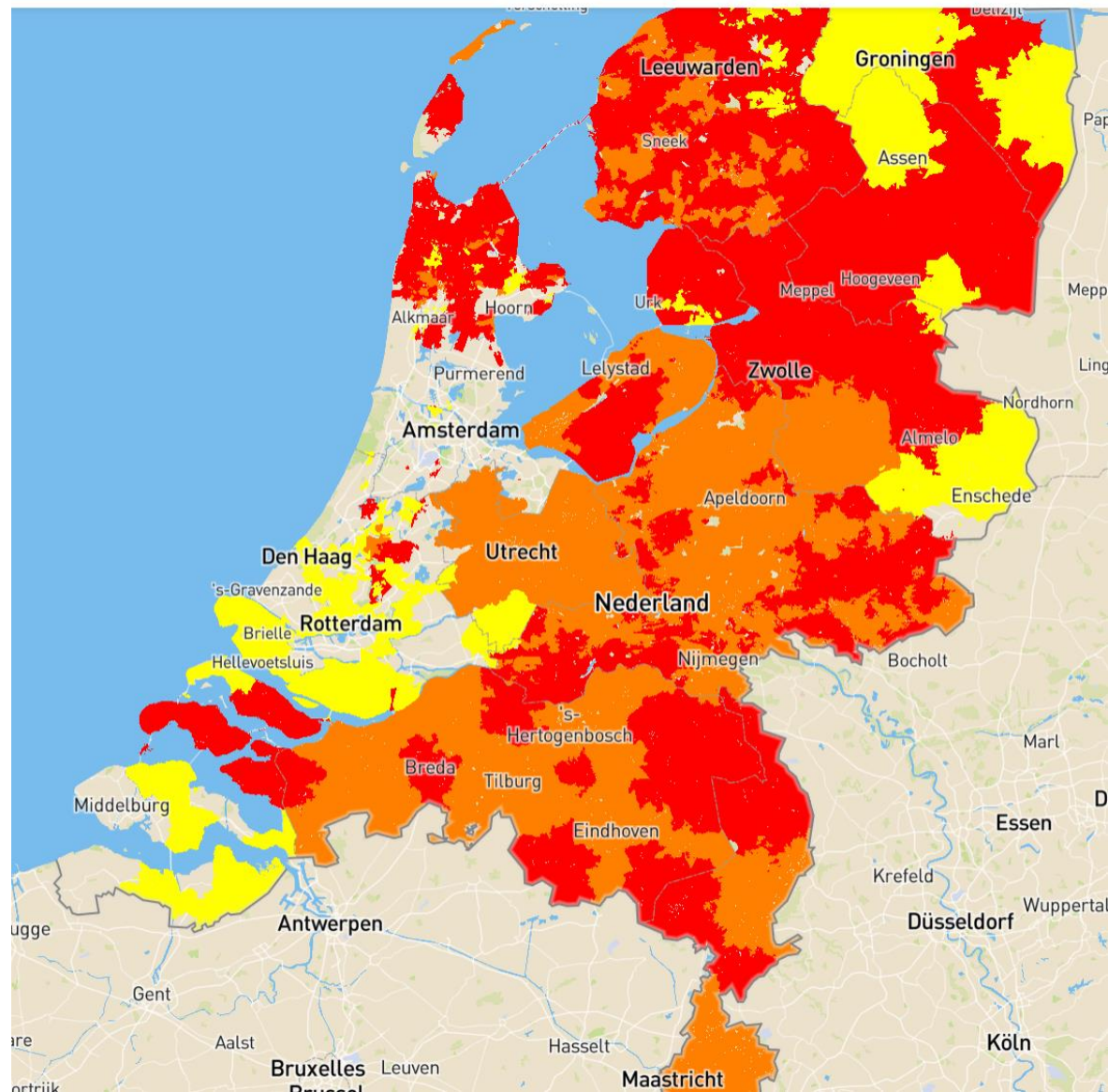
Capaciteitskaart afdome elektriciteitsnet

Bijgewerkt: 13-10-2022 08:30



Capaciteitskaart invoeding elektriciteitsnet

Bijgewerkt: 13-10-2022 08:30



Consumer behaviour

Smart Charging

- Very high willingness to use smart charging, but not all consumers are satisfied with how the technology works.
- Almost all the EV drivers in every country agree that smart charging should be easy and user friendly. They want to have control, insight and financial gain.
- The original equipment manufacturer received the overall highest level of trust in terms of handing over control, but many respondents also stated that they only trust themselves and no third party.

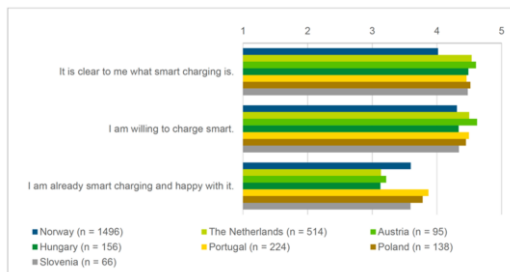


Figure 3: To what extent do you agree with the following statements about smart charging? On a scale from 1 (strongly disagree) to 5 (strongly agree).

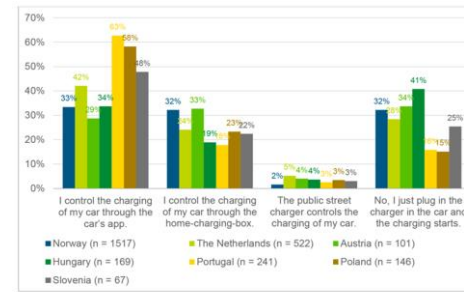
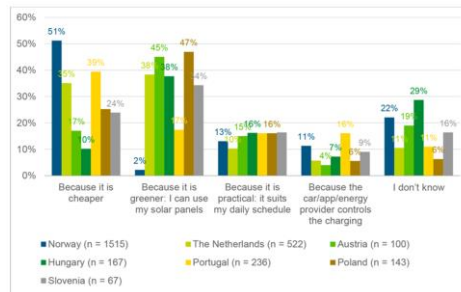
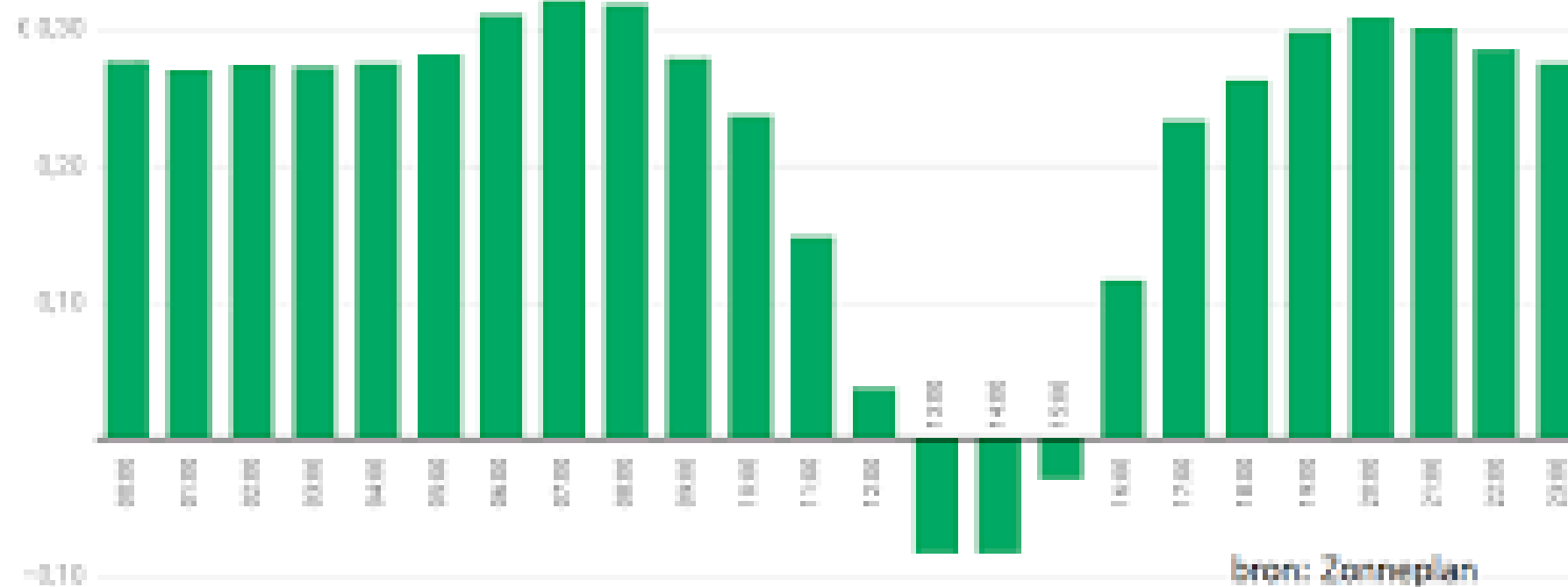


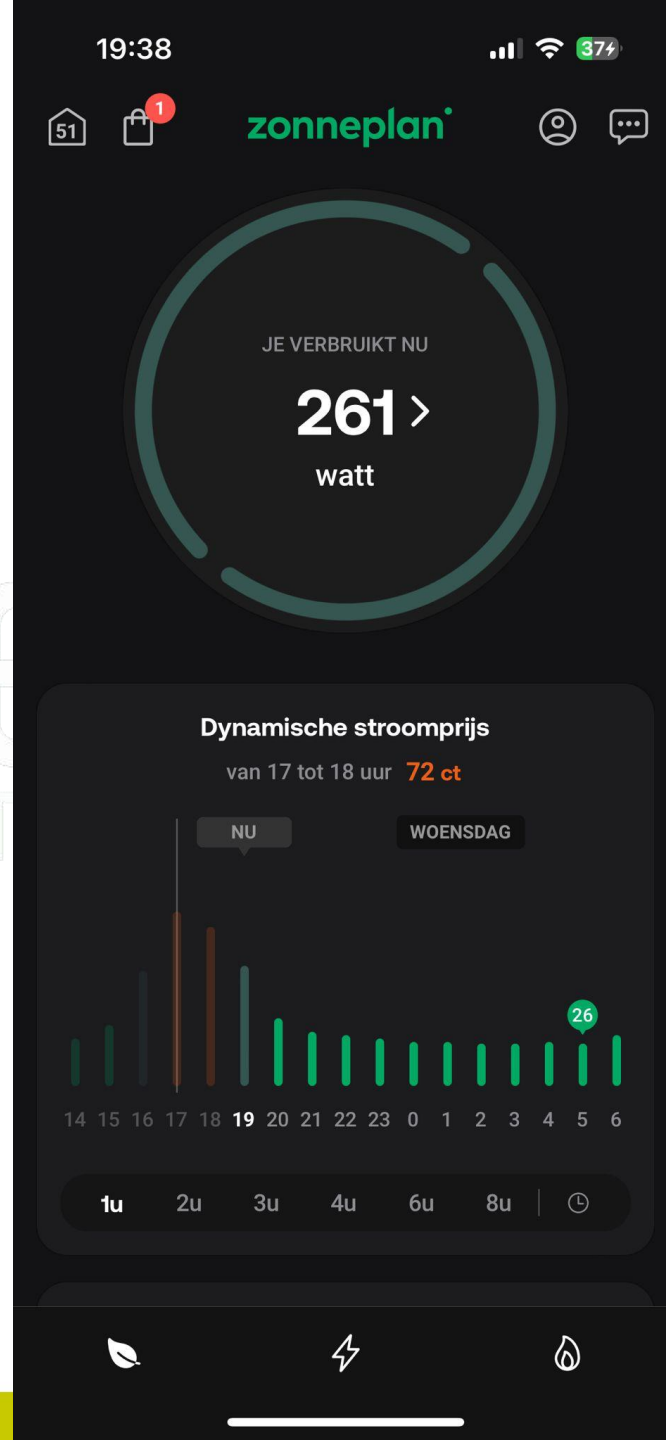
Figure 5: Do you control the charging of your car/do smart charging?



Dynamische stroomprijzen 19 april 2023

EPEX day-aheadprijs per kWh + overheidsheffingen





ugh the chaos with real time updates on the news affecting the global economy. **Enable Notifications.**

Enable

Markets

The Day Europe's Power Grid Came Close to a Massive Blackout

By [Jesper Starn](#), [Brian Parkin](#), and [Irina Vilcu](#)

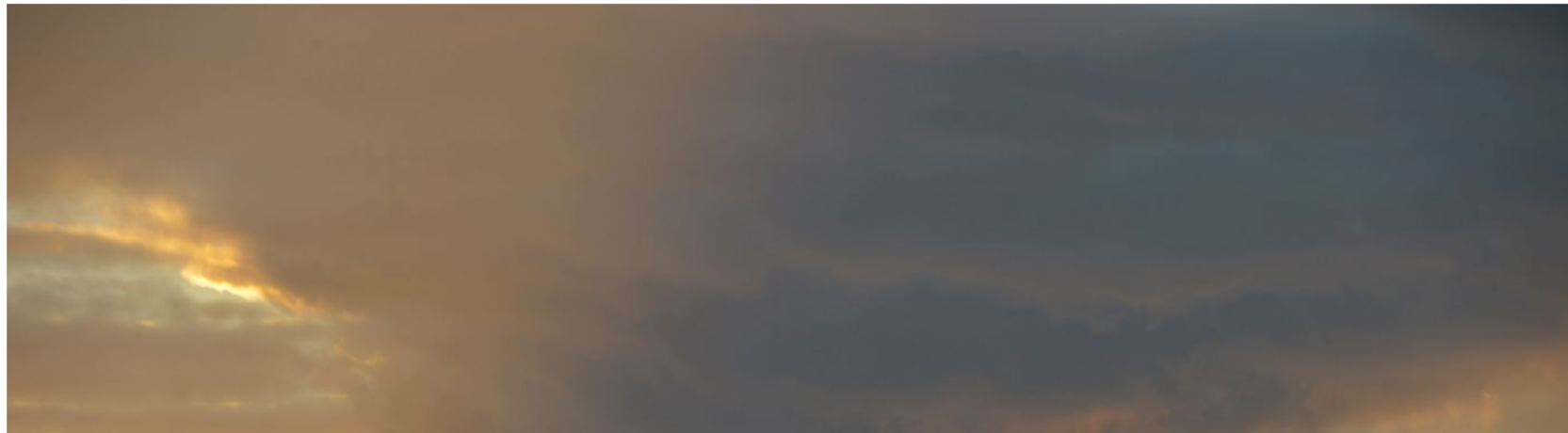

27 januari 2021 07:00 CET *Updated on 27 januari 2021 12:46 CET*

- ▶ A sudden split of the European continental grid caused concern
- ▶ Less coal and more wind makes it harder to balance network

● LIVE ON BLOOMBERG

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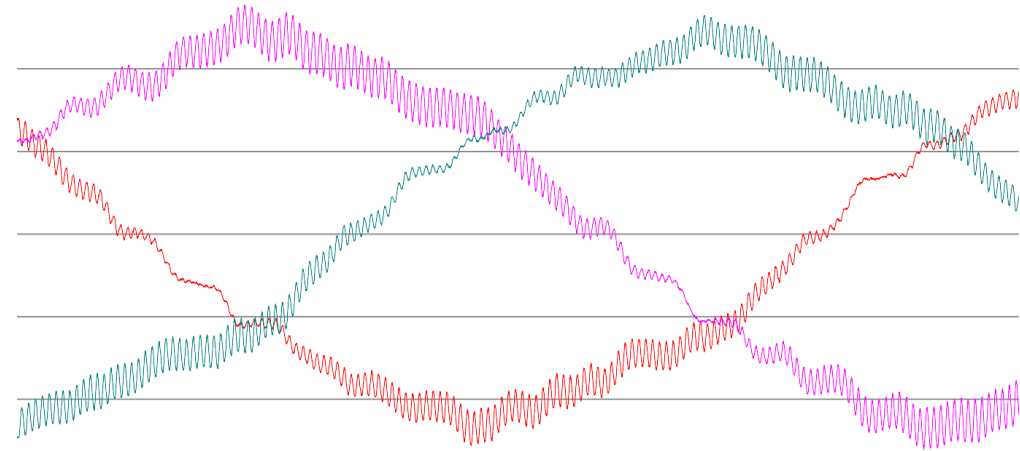
[Listen to Live Radio >](#)



Testing of:

- Power Quality
- Interoperability
- Cyber security
- Safety of grid connections
- Smart Charging
- Protocol implementation

- But also R&D, f.e. the MCS









Standardisation





Gemeente Utrecht



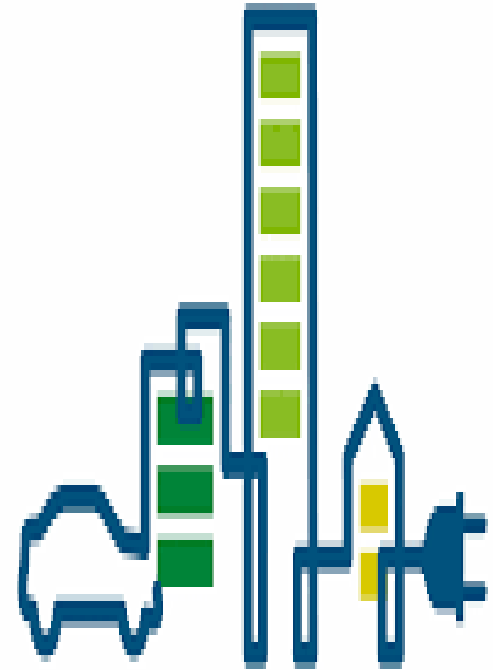
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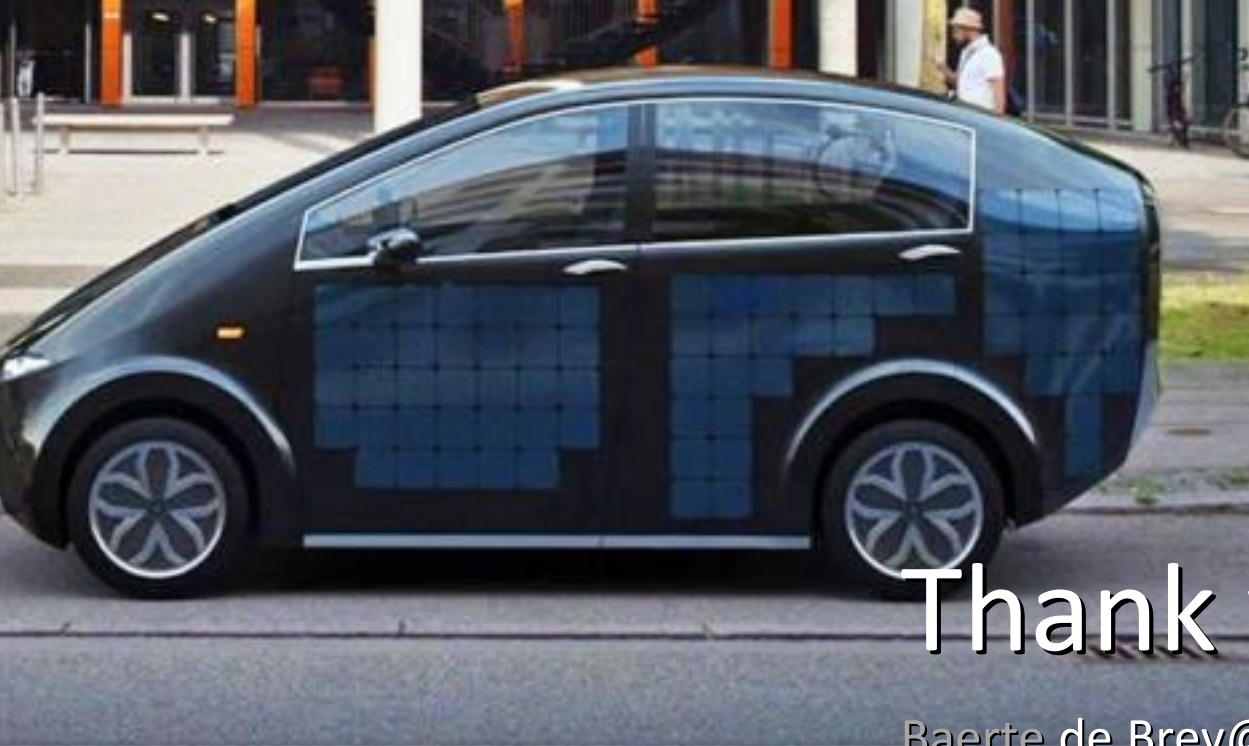
Utrecht eerste stad ter wereld met stadsbreed netwerk van publieke laadpalen die kunnen laden én ontladen

📅 16-01-2019

De gemeente Utrecht en het Utrechtse bedrijf 'LomboXnet' gaan dit jaar ten minste 145 publieke laadpalen voor elektrische auto's plaatsen. Deze innovatieve laadpalen zijn geschikt om zonne-energie op te slaan in de batterijen van elektrische auto's en terug te leveren aan de buurt. De laadpalen bieden dus zowel de mogelijkheid om een auto op te laden, als toekomstige auto's te ontladen.



SCALE



Thank you!

Baerte.de.Brey@elaad.nl



ELMAD

TESTLAB

Rondleiding