

# NEW ENERGY FORUM

19 juni 2025 | Groningen

# Breaking Barriers



Olof van der Gaag: energieoptimisme



# Energietransitie NL, reden voor optimisme

Olof van der Gaag | 19/6/25  
Voorzitter NVDE & TKI UE



# 2023 = 1964

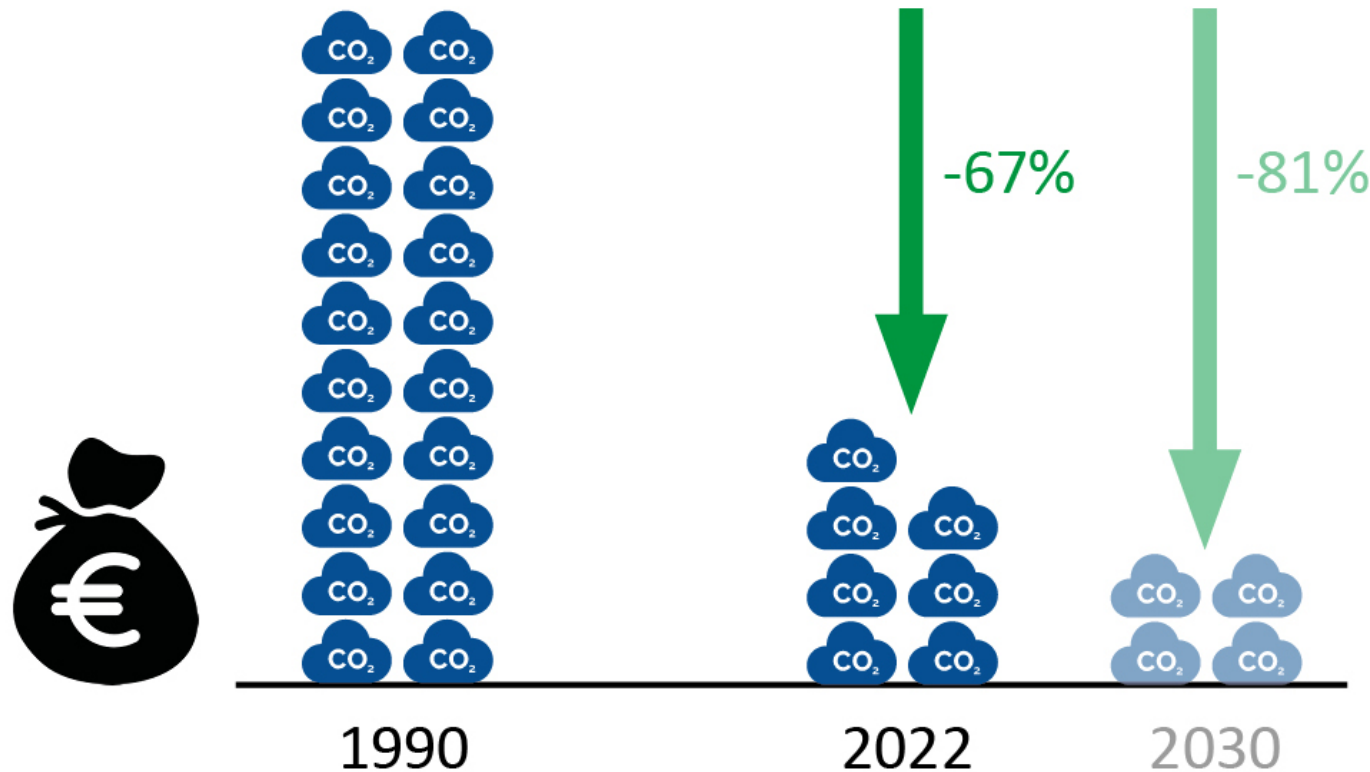
**uitstoot NL**

**-1/3<sup>e</sup> sinds 1990**



# Economie x2 | uitstoot :2

CO<sub>2</sub>-uitstoot per euro productie in NL  
(incl. correctie naar 2022 euro's)

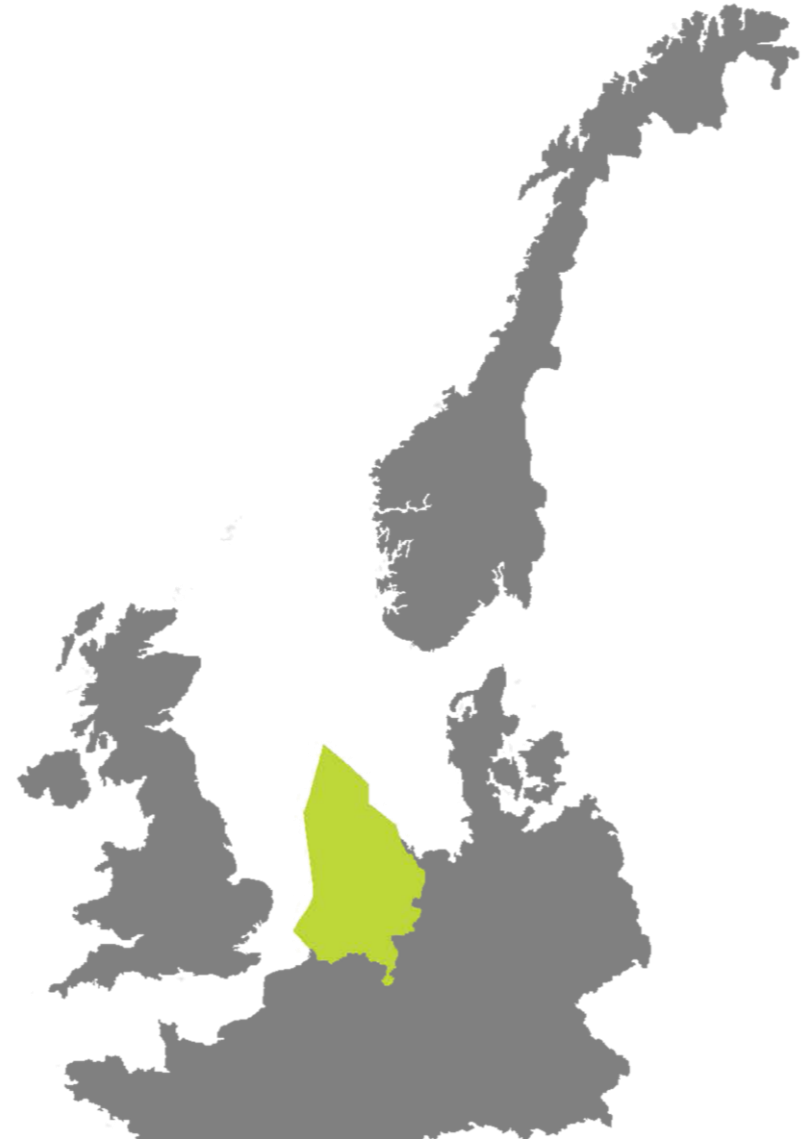


# Duurzame energie x5 in 12 jaar

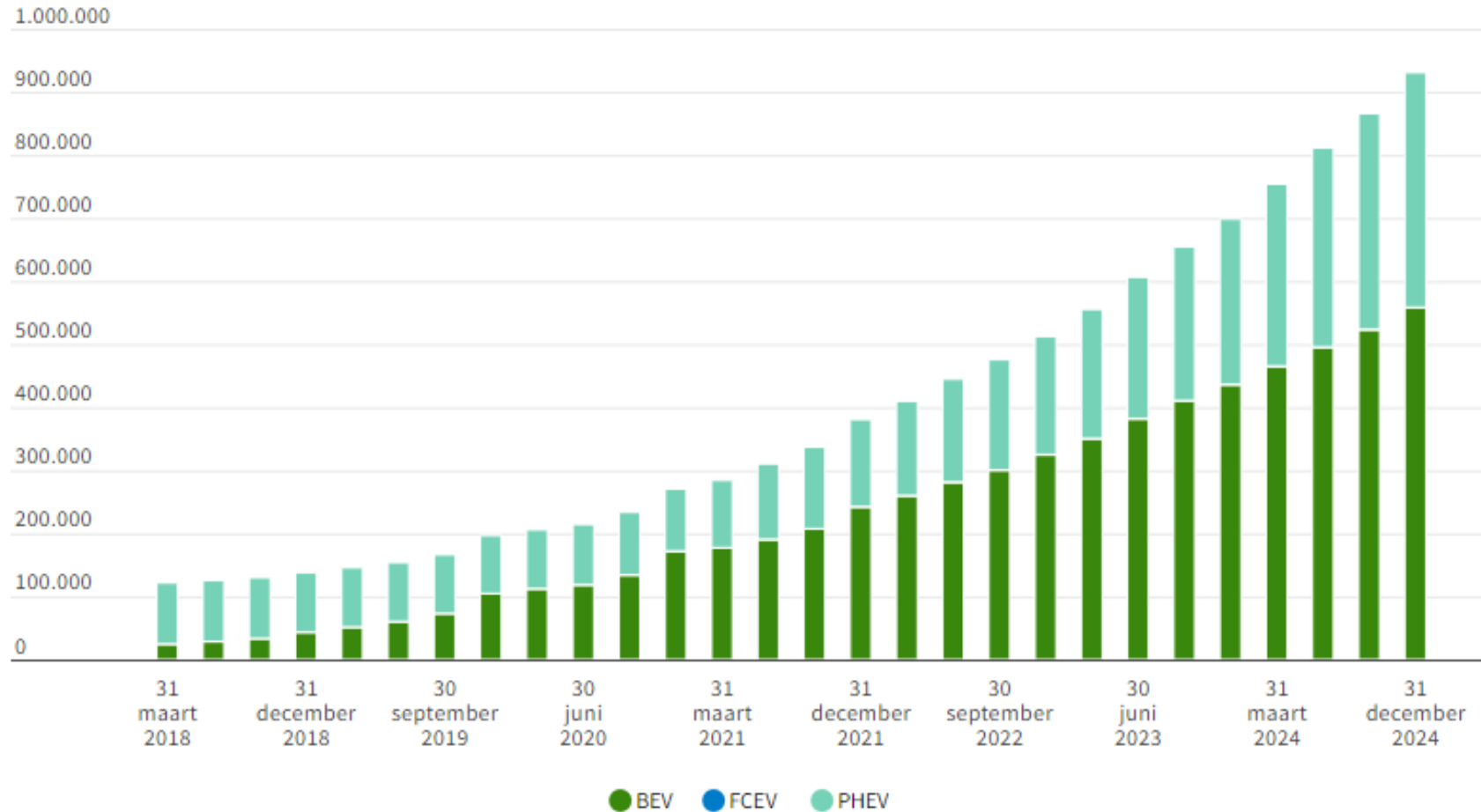
GREEN  
ENERGY  
DAY<sup>®</sup>

24  
maart  
2025



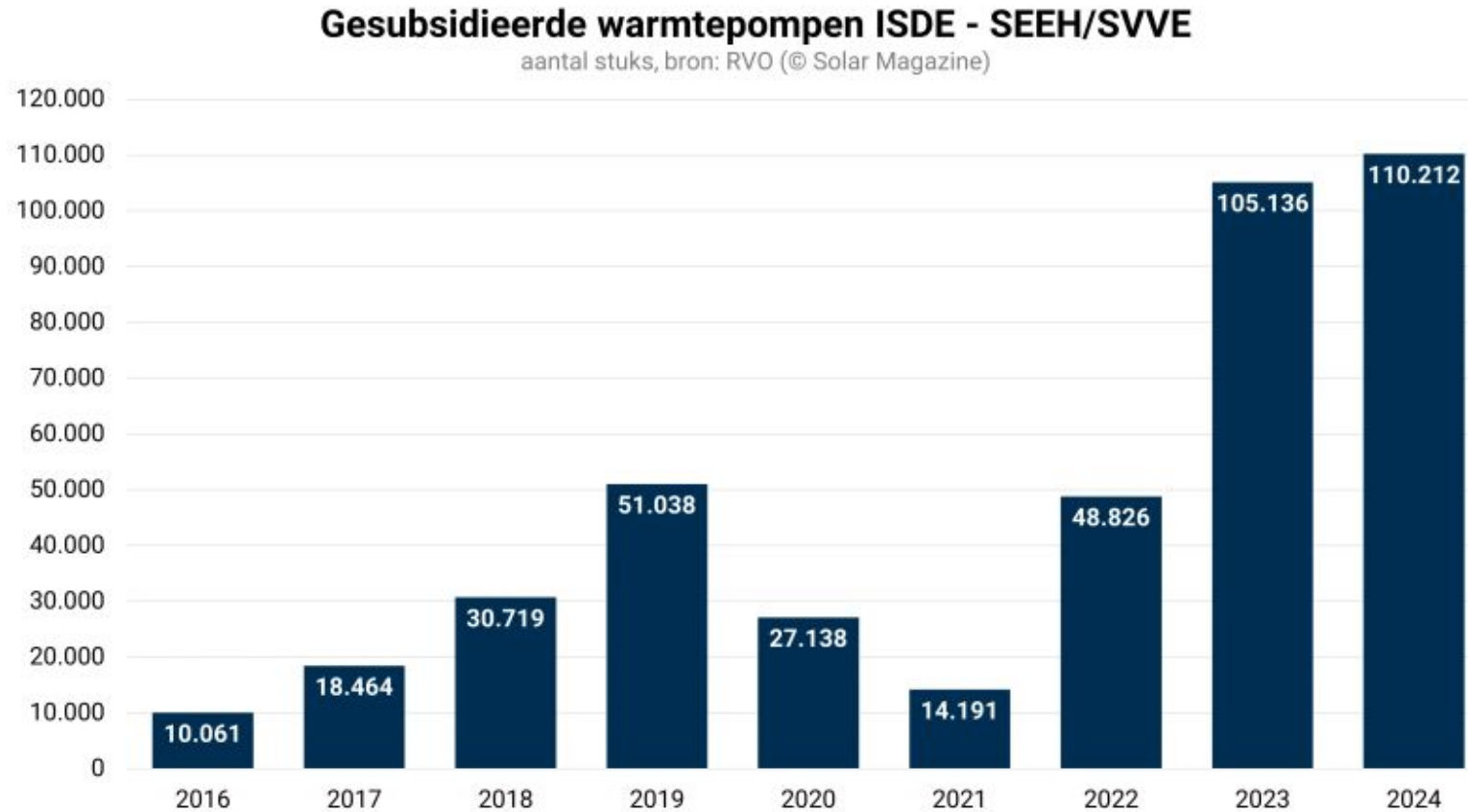


# In 7 jaar EV x22



Brondata: RDW - Bewerkt door: RVO | 31 maart 2018 - 31 december 2024

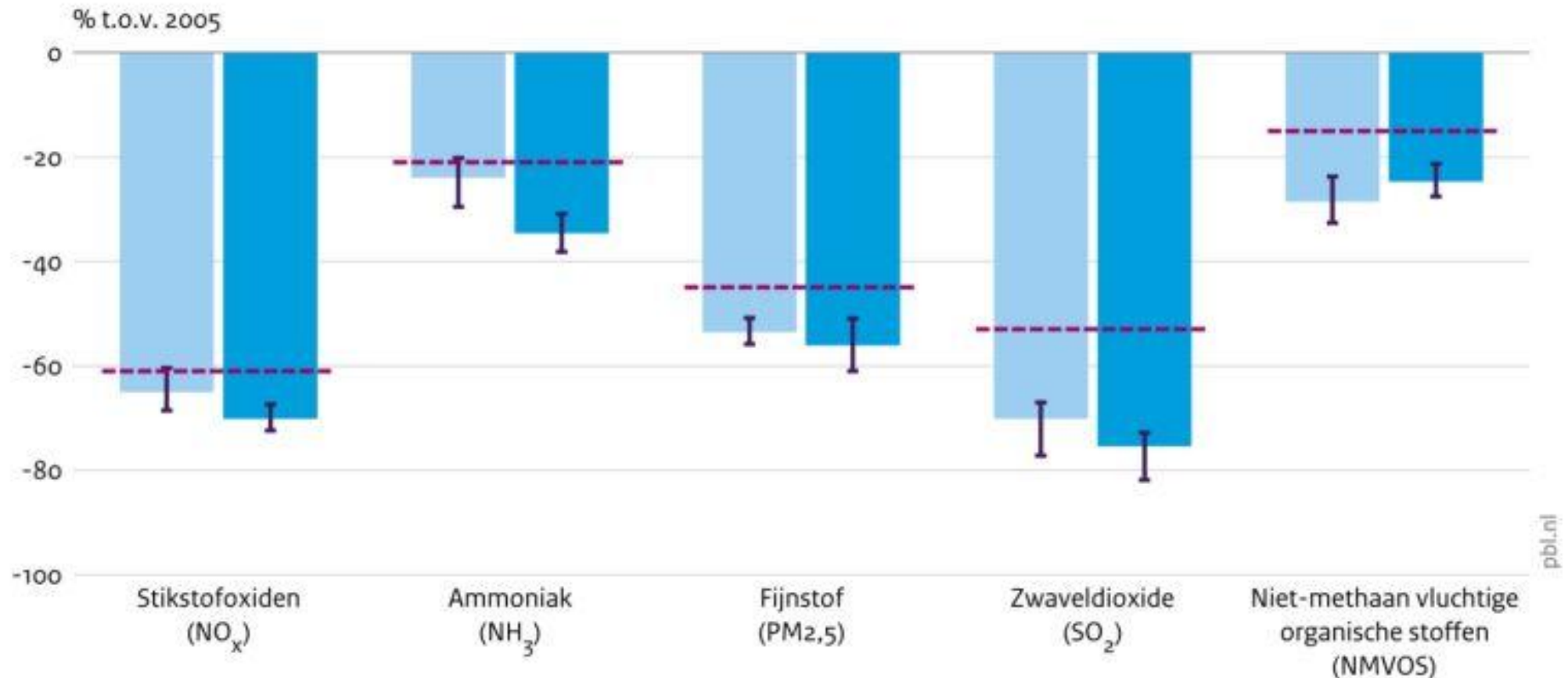
# WarmtepompreCORDS



# Schonere lucht (PBL)

Figuur 3

Verandering emissie luchtverontreinigende stoffen volgens Europese definitie volgens ERL 2023 en ERL 2025, 2005 – 2030



# **nvde** Vrijheidsenergie, oranje-groen



Bron: Factsheet Oranje-groene energie en banen, NVDE, maart 2021. Update CBS 2024, PBL 2023. Visualisatie NVDE

# Duurzamer = onafhankelijker

## Electrotech avoids the dependencies of fossil fuels

When fossil flows stop, the economy stops. When electrotech flows stop, only the growth is at risk

From fossil import dependency...

→ ...to electrotech import dependency...

→ ...to full circular energy independence.

In an economy running on fossil imports, when imports stop...



In an economy running on imported electrotech, when imports stop...



In an economy running on circular electrotech, when imports stop...



At risk in the immediate term

At risk in the long term

Not at risk

# Grip op energierekening

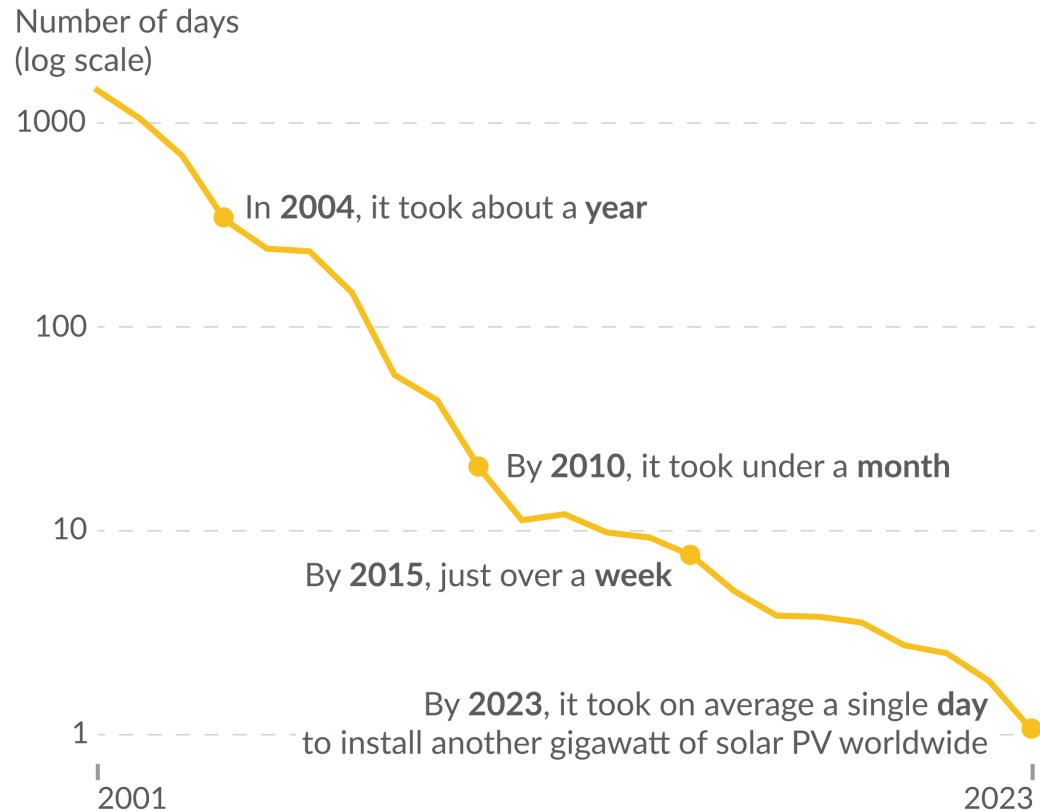
Nederlanders staken vorig jaar 14 miljard in verduurzaming huis



# Wereld (China!) gaat snel

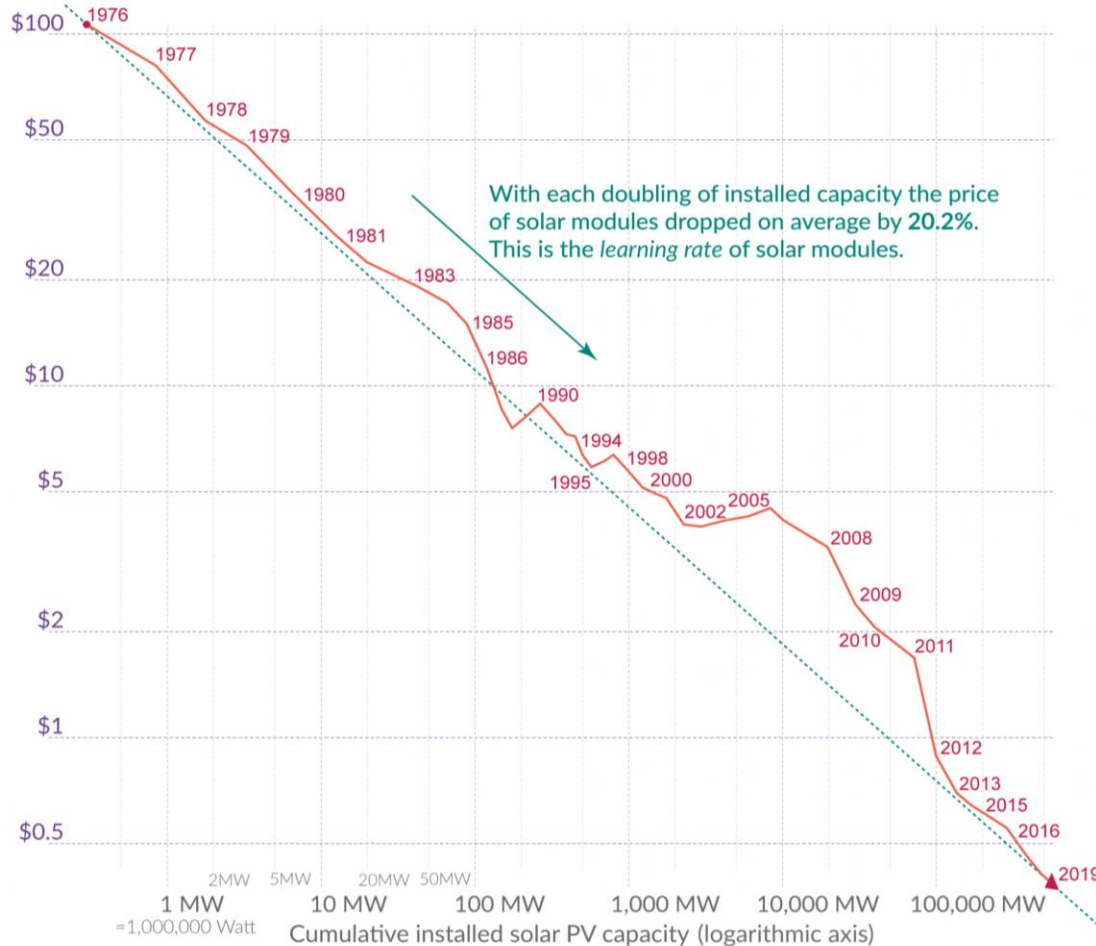
How long did it take the world to install a gigawatt of solar power capacity?

Our World in Data





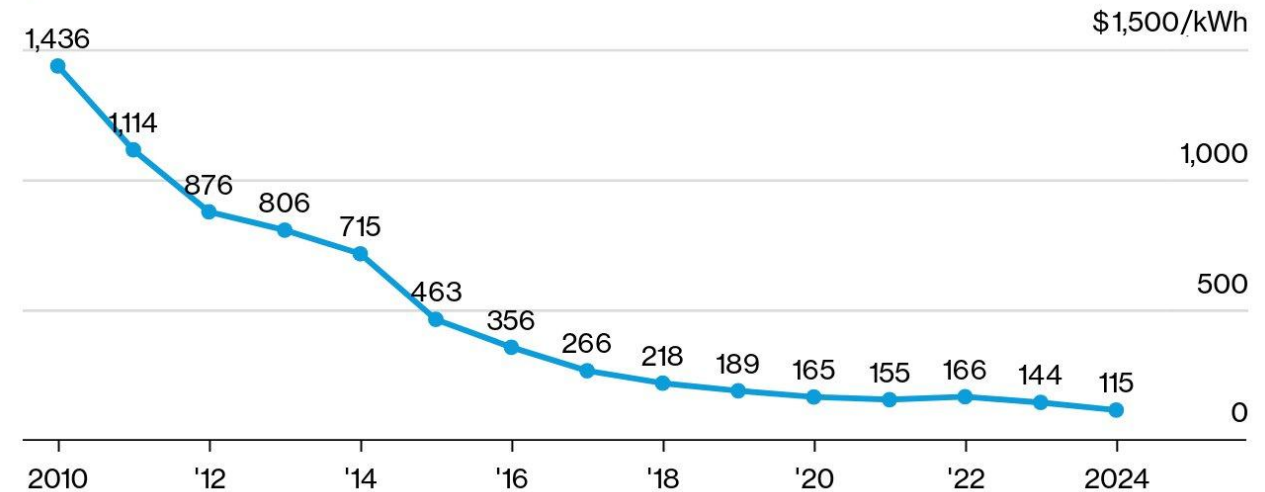
Price per Watt of solar photovoltaics (PV) modules (logarithmic axis)  
The prices are adjusted for inflation and presented in 2019 US-\$.



## Battery Prices Fall With Lower Metal Costs and Increased Scale

Lithium-ion battery pack prices

Volume-weighted average in real 2024 dollars

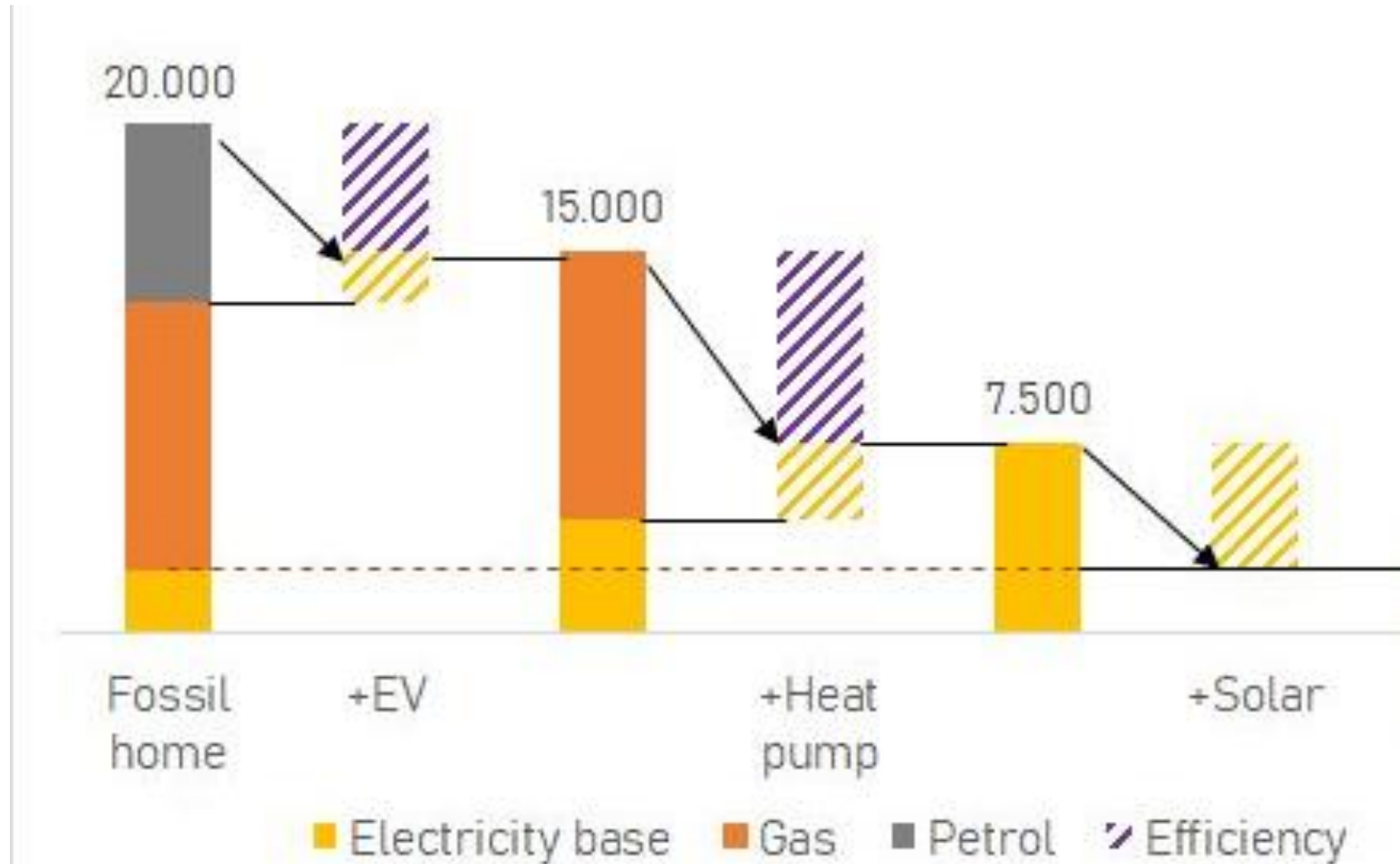


Source: BloombergNEF.

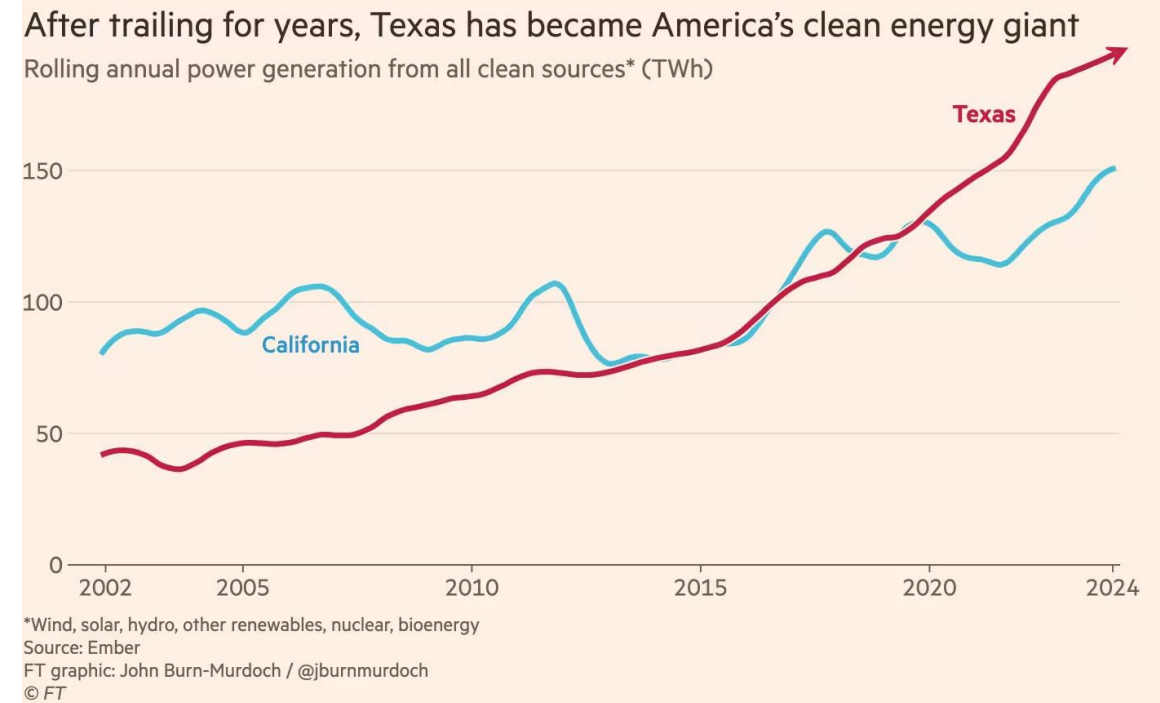
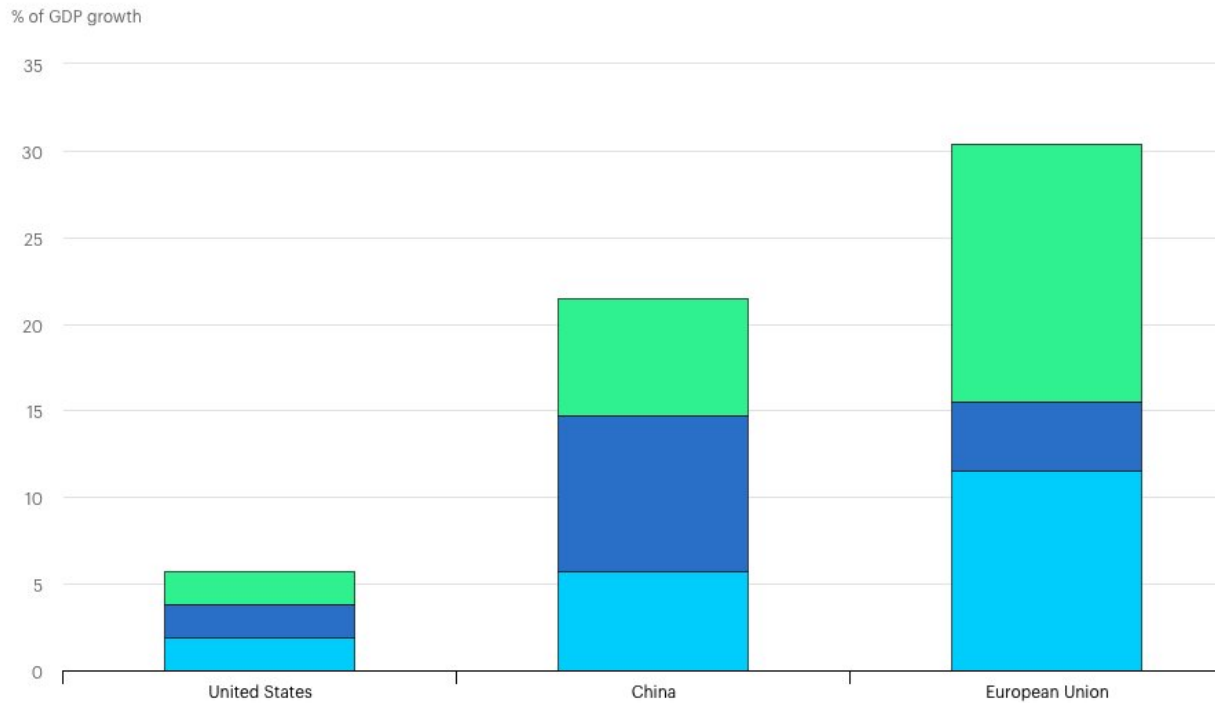
Note: Historical figures have been adjusted to real 2023 dollars. Values are averages across passenger EVs, commercial vehicles, buses, two- and three-wheelers and stationary storage. Includes cell and pack.

BloombergNEF

# Efficiency!



# Economie/ groene groei

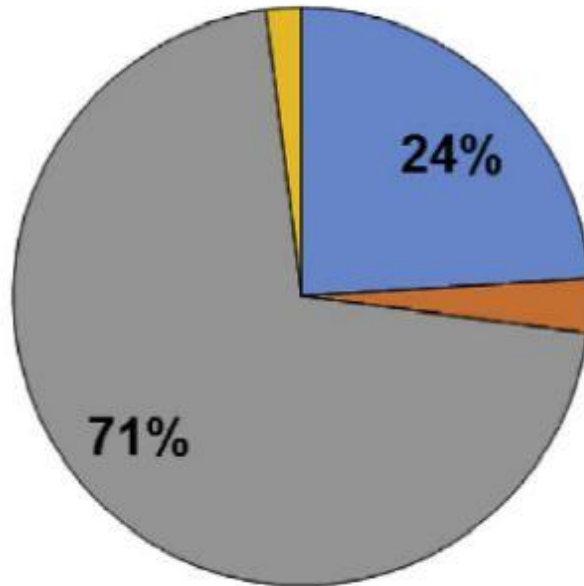


# Vooruitgang

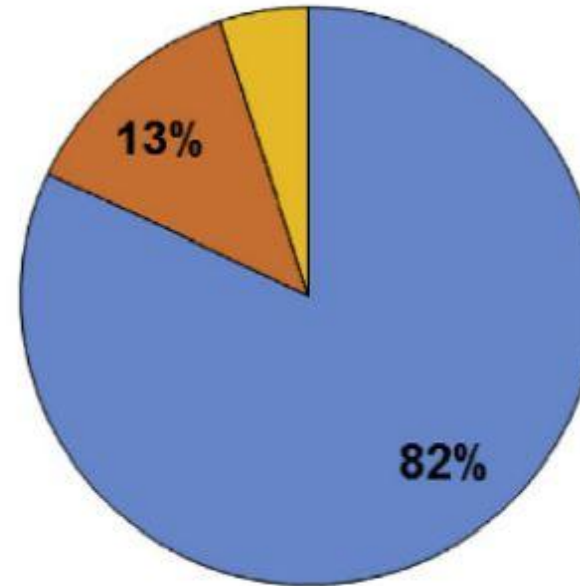


# Kapitaalkosten vs operationele kosten

Combined Cycle



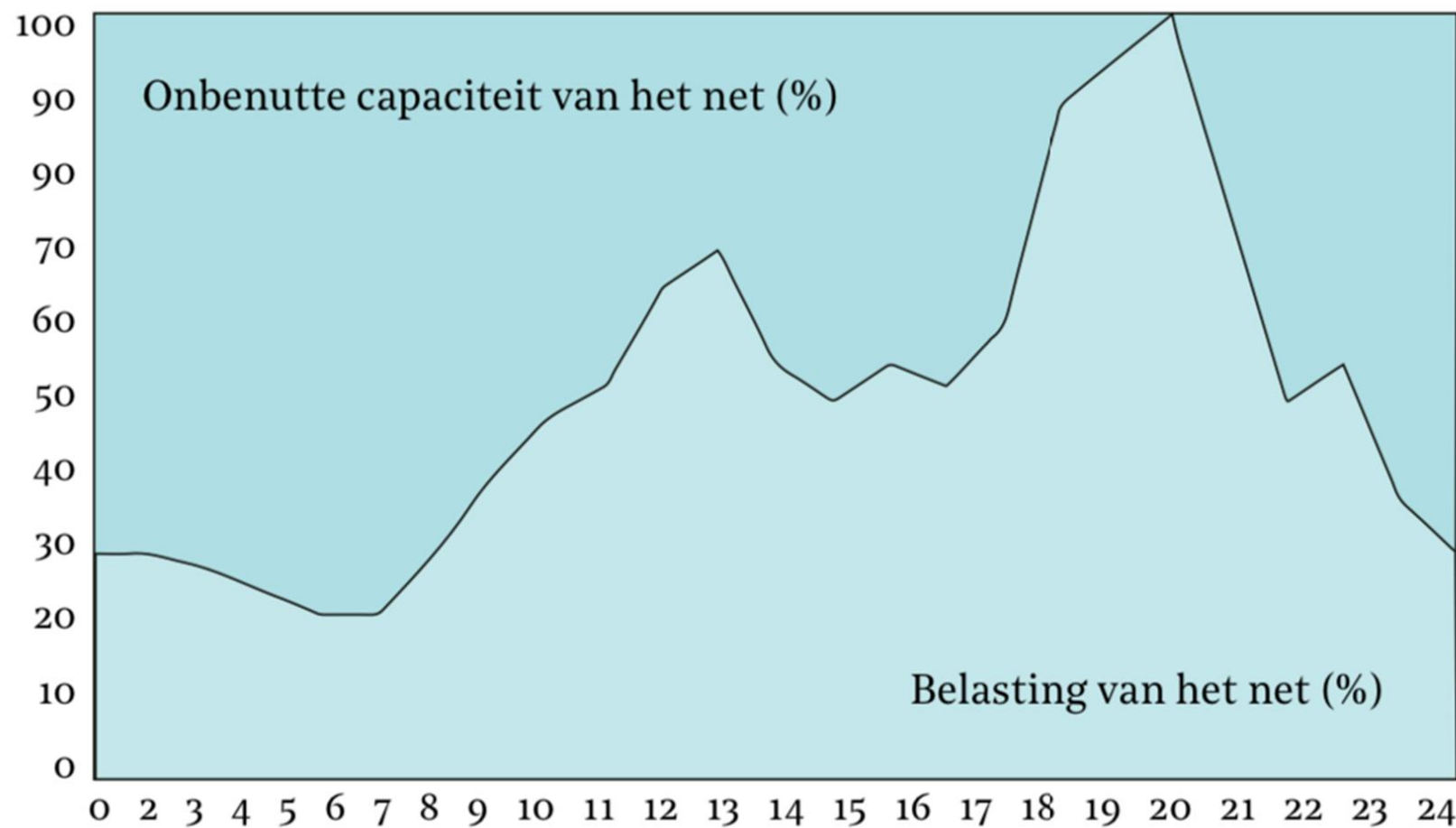
Solar



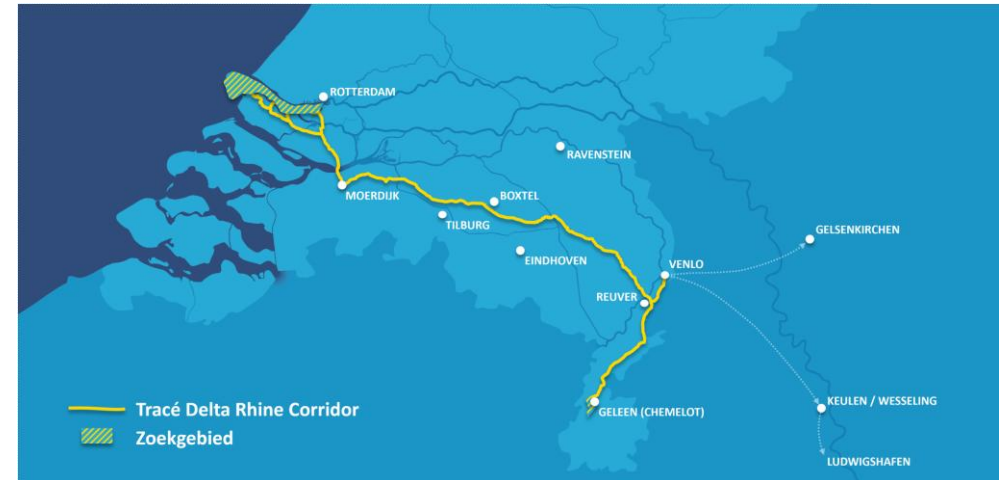
- CAPEX
- Fixed O&M
- Variable O&M
- Transmission

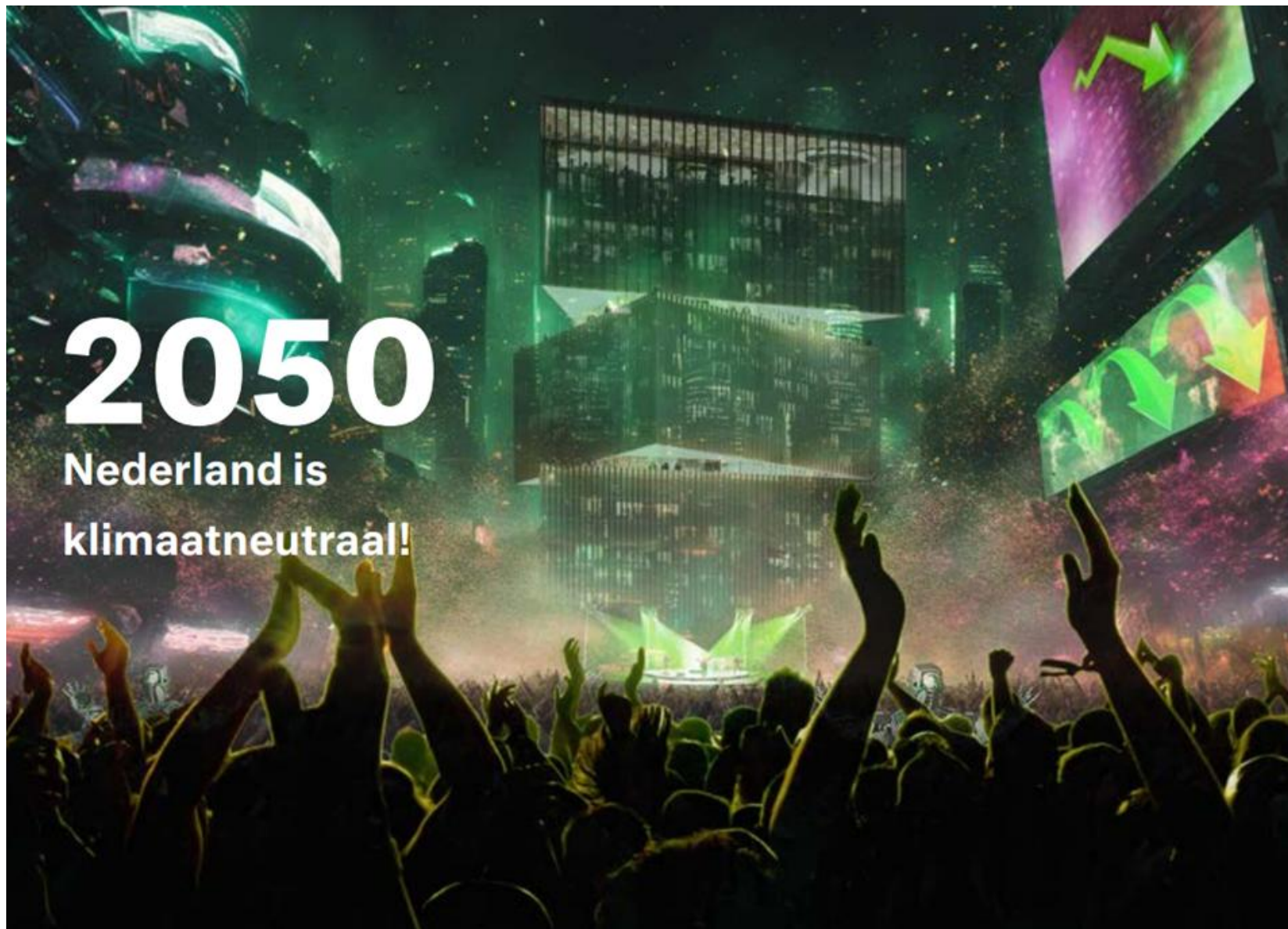
# Elektriciteitsnet: spits & dal

*Figuur 3. Belasting van het net gedurende de dag afgezet tegen de onbenutte capaciteit.*



# Procedures





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**FORUM**

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