

Energie(on)afhankelijkheid

Olof van der Gaag | 9/10/25
Voorzitter NVDE



2023 = 1964

uitstoot NL

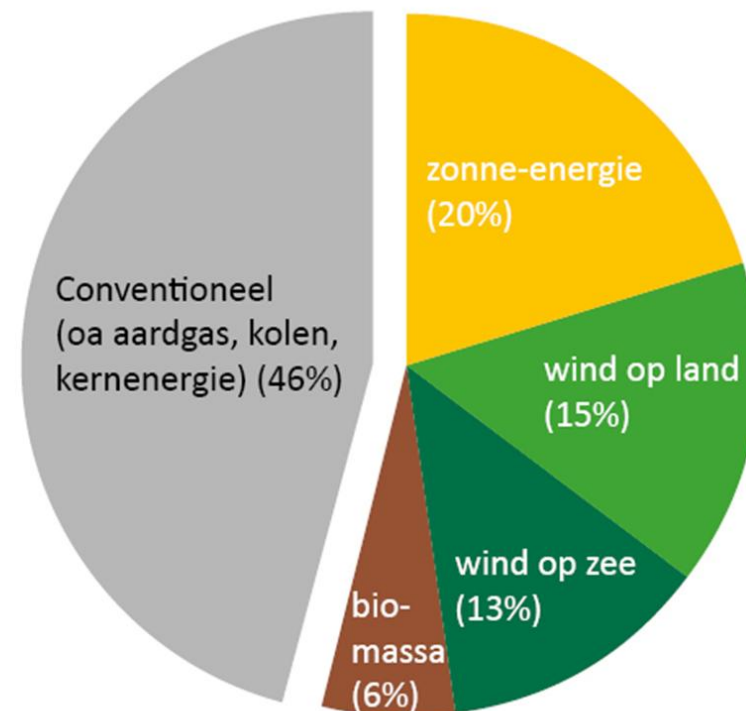
-1/3^e sinds 1990



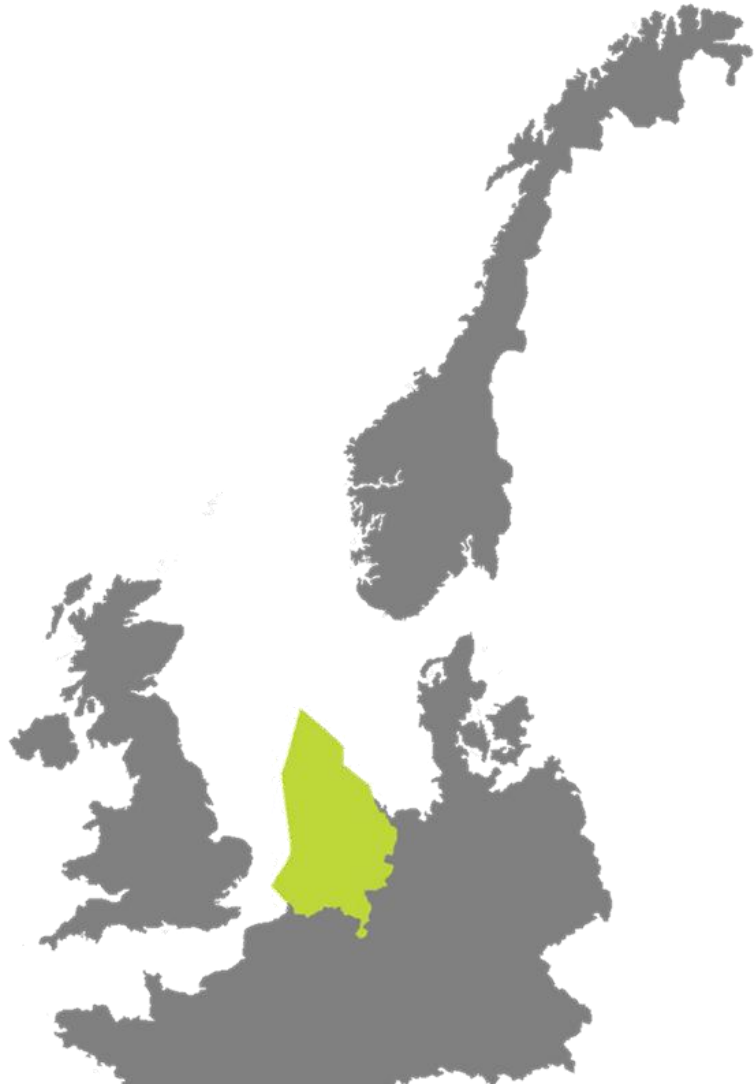
Duurzame energie x5 in 12 jaar

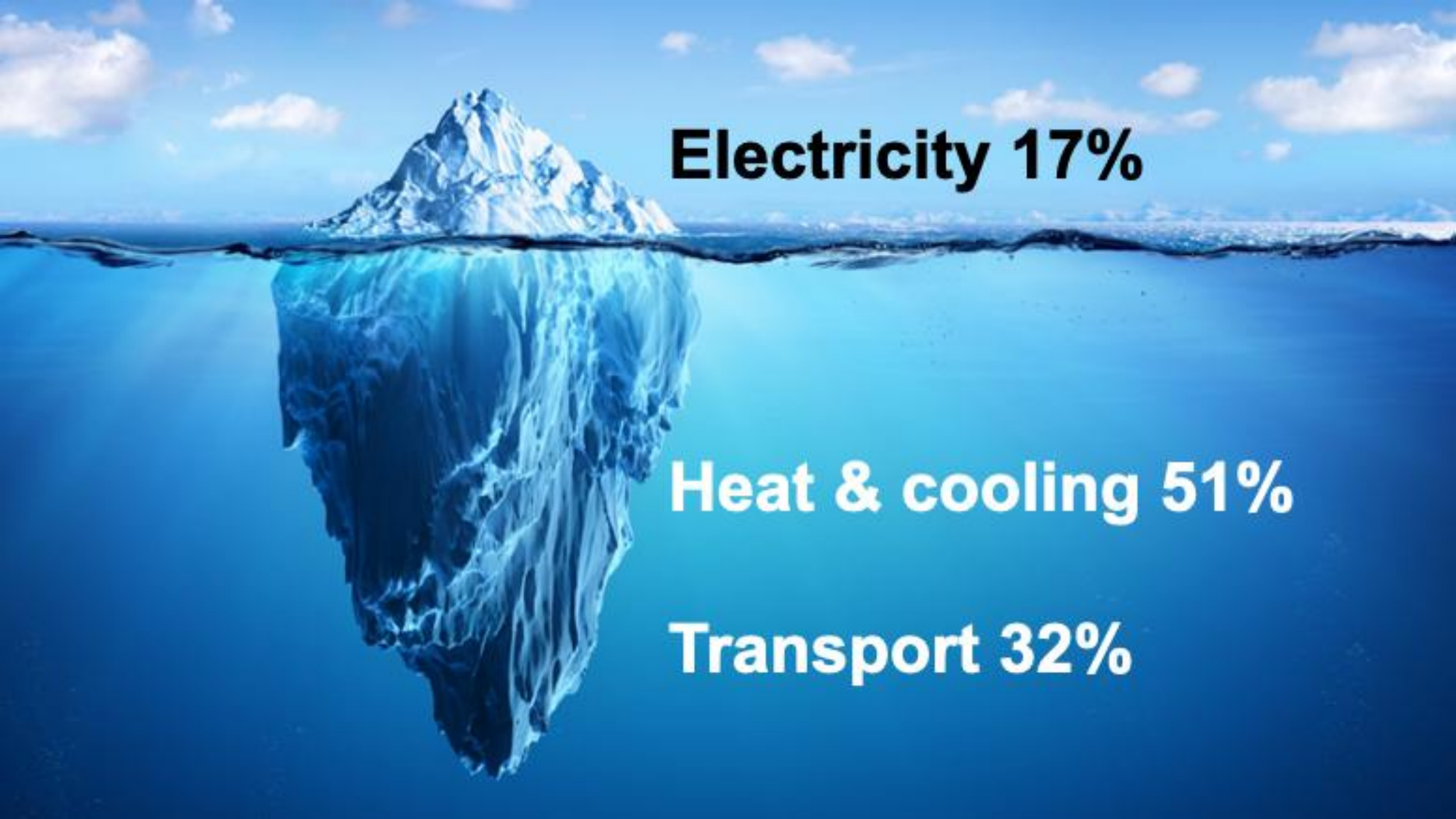
GREEN
ENERGY
DAY®

24
maart
2025



Noordzee



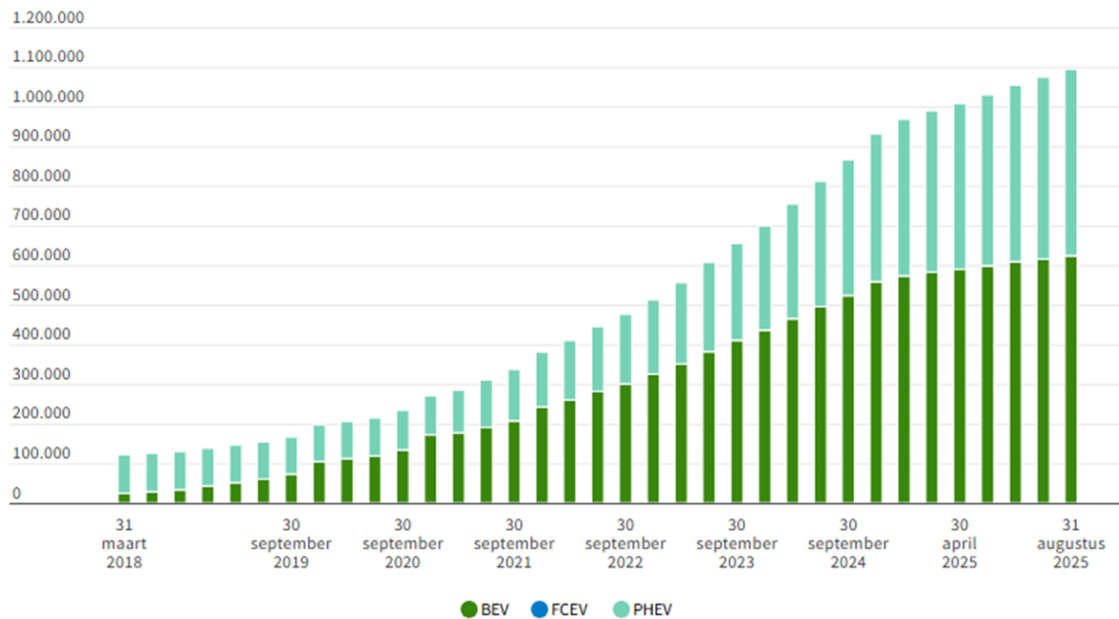
An iceberg floating in a blue ocean under a blue sky with white clouds. The visible tip of the iceberg is small, while the submerged part is much larger, illustrating the concept that most energy consumption is not electricity.

Electricity 17%

Heat & cooling 51%

Transport 32%

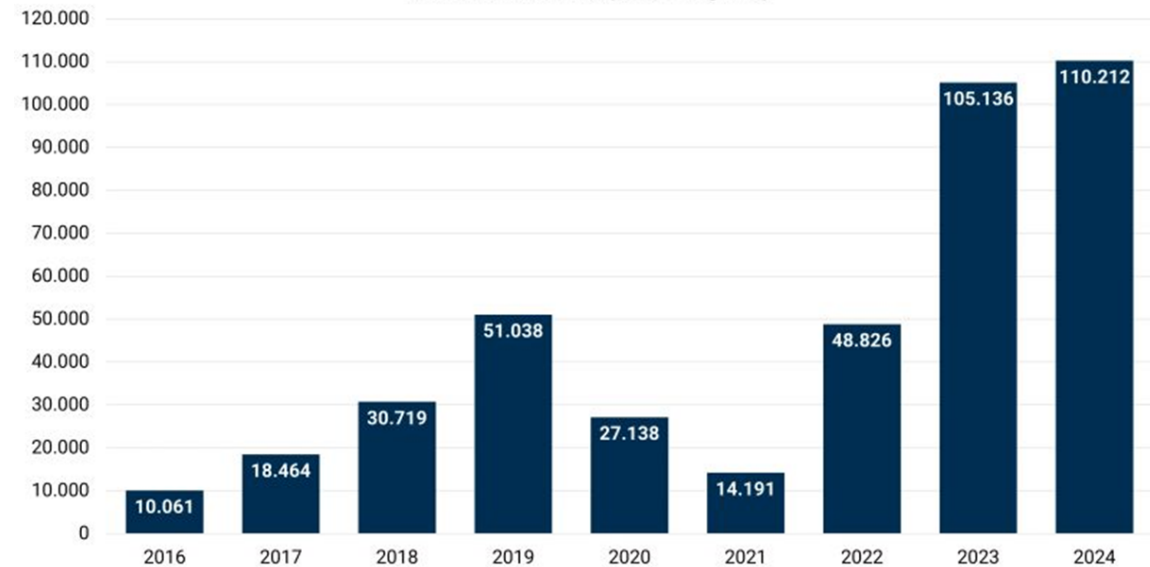
Elektrische auto's en warmtepompen



Brondata: RDW - Bewerkt door: RVO | 31 maart 2018 - 31 augustus 2025

Gesubsidieerde warmtepompen ISDE - SEEH/SVVE

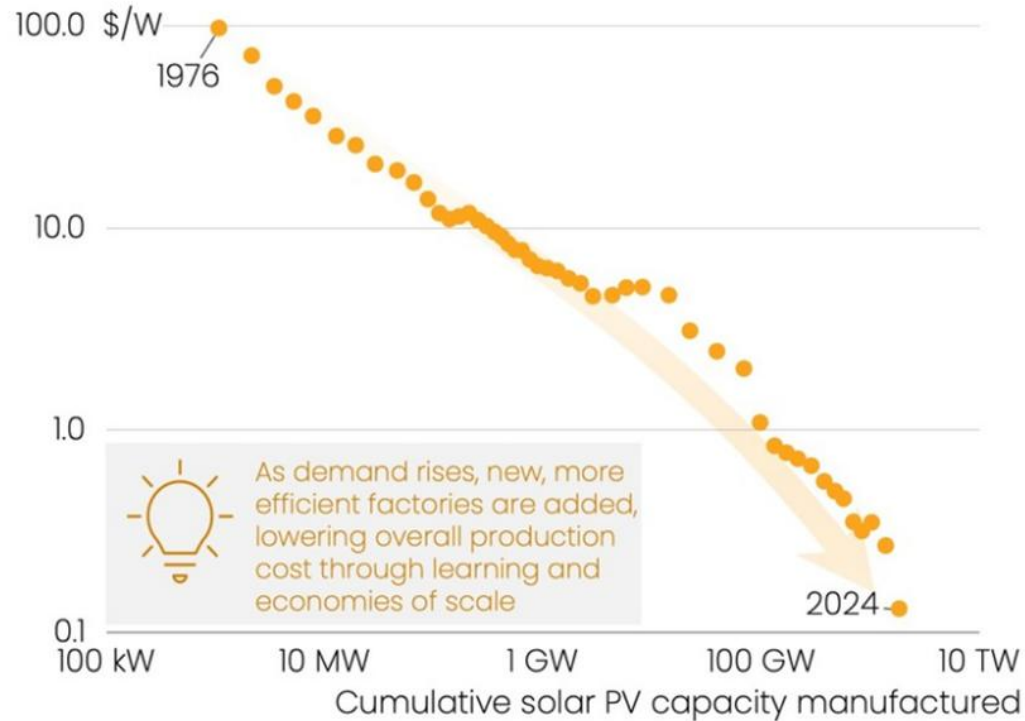
aantal stuks, bron: RVO (© Solar Magazine)



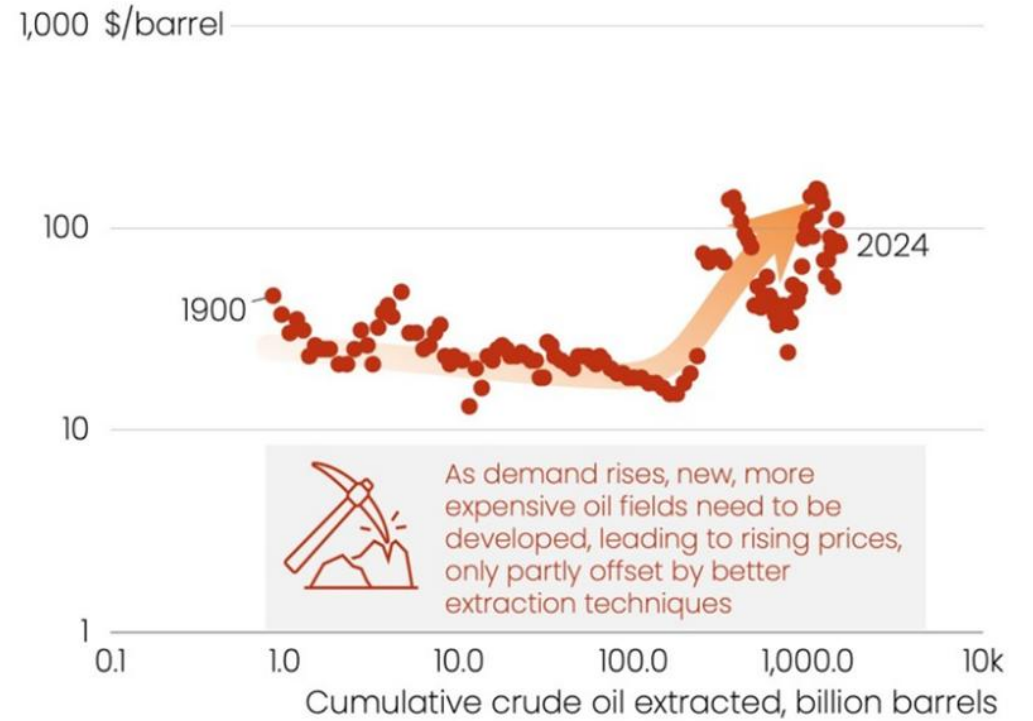
Learning beats digging

Electrotech gets cheaper with scale, whereas fossil fuels get more expensive

Solar panel price cost versus amount manufactured



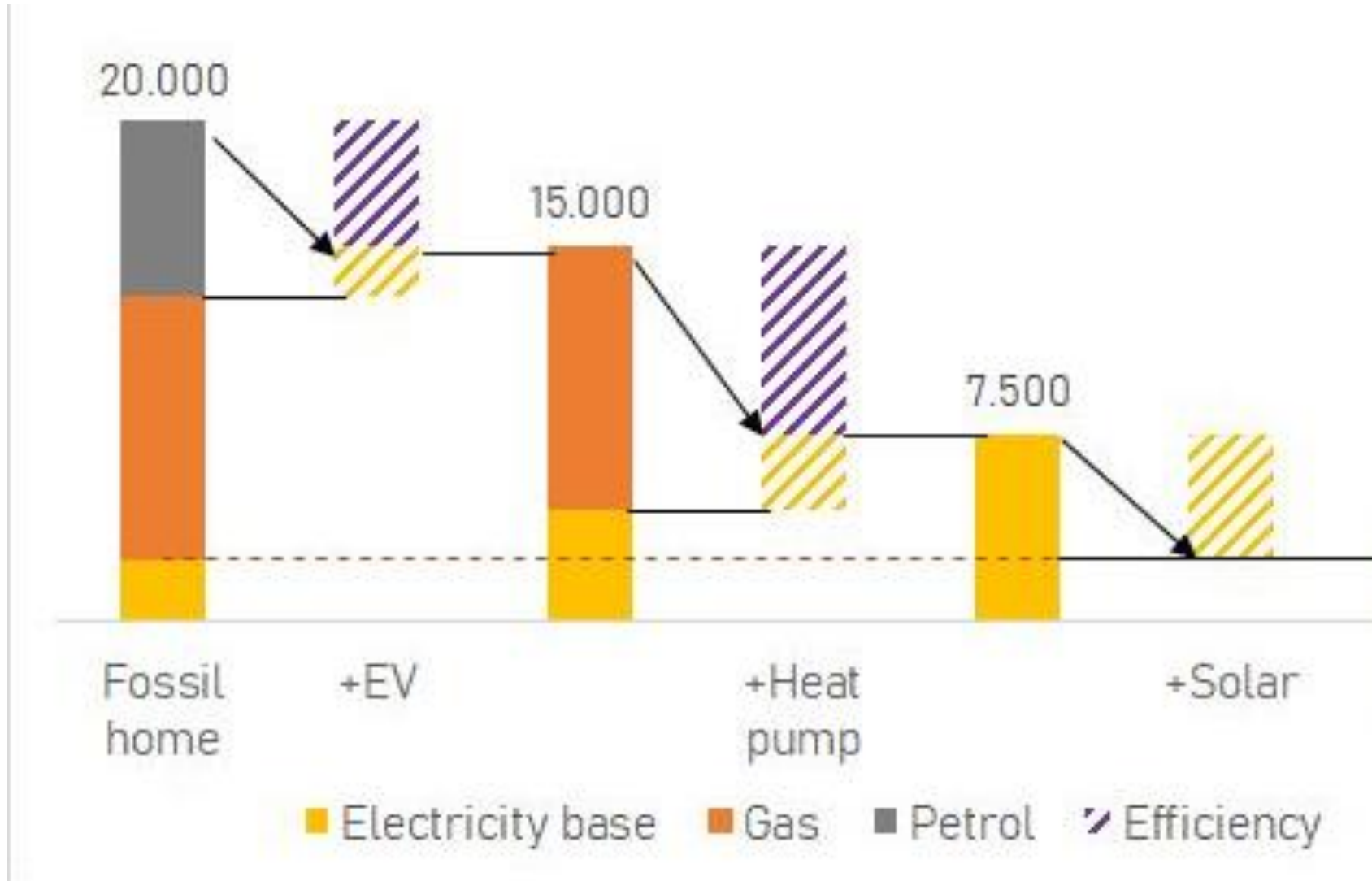
Oil price versus amount extracted



Sources: Rystad; BNEF; Ember analysis

EMBER

Efficiency!



Vooruitgang



nvde Vrijheidsenergie, oranje-groen

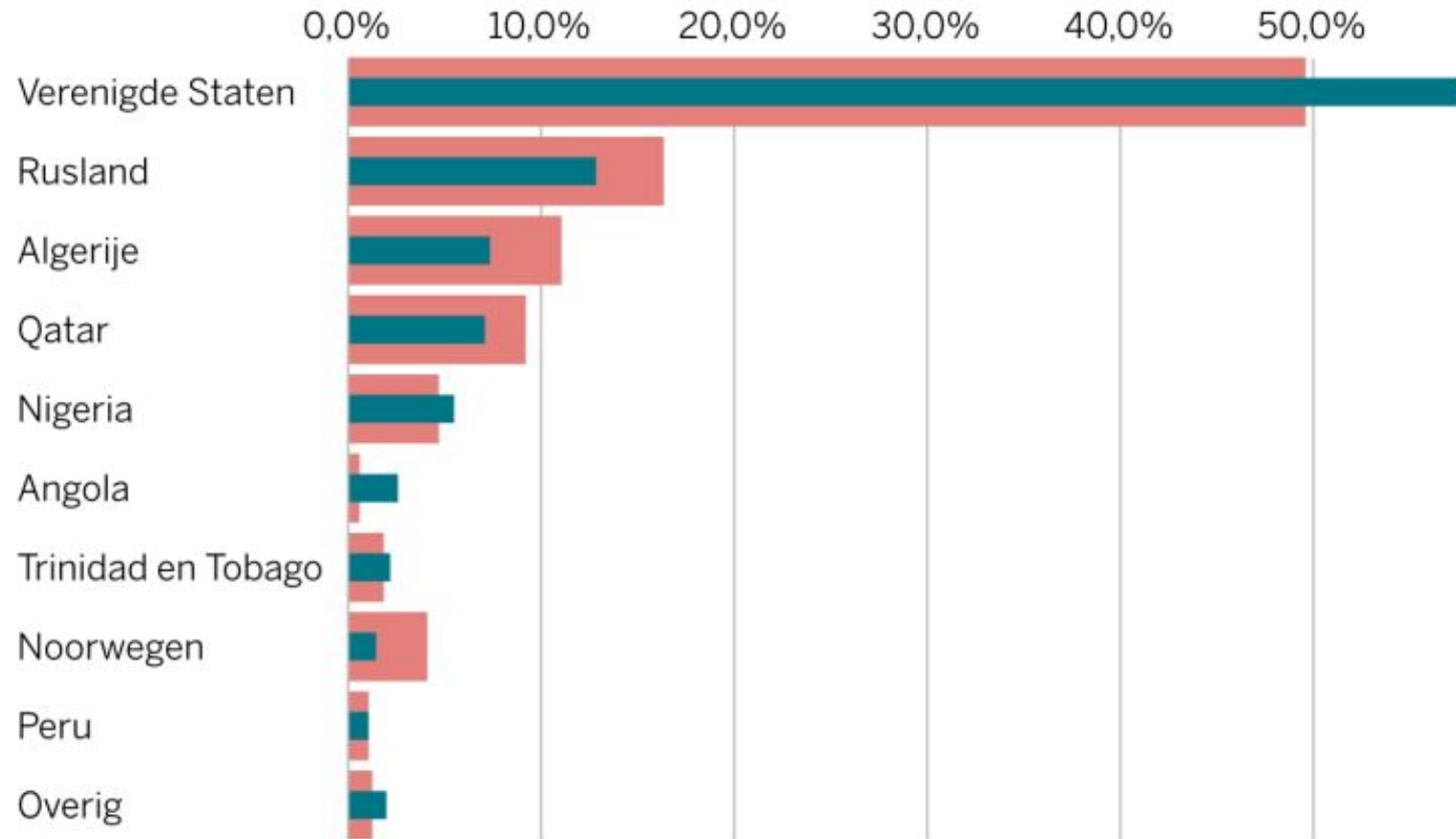


Bron: Factsheet Oranje-groene energie en banen, NVDE, maart 2021. Update CBS 2024, PBL 2023. Visualisatie NVDE

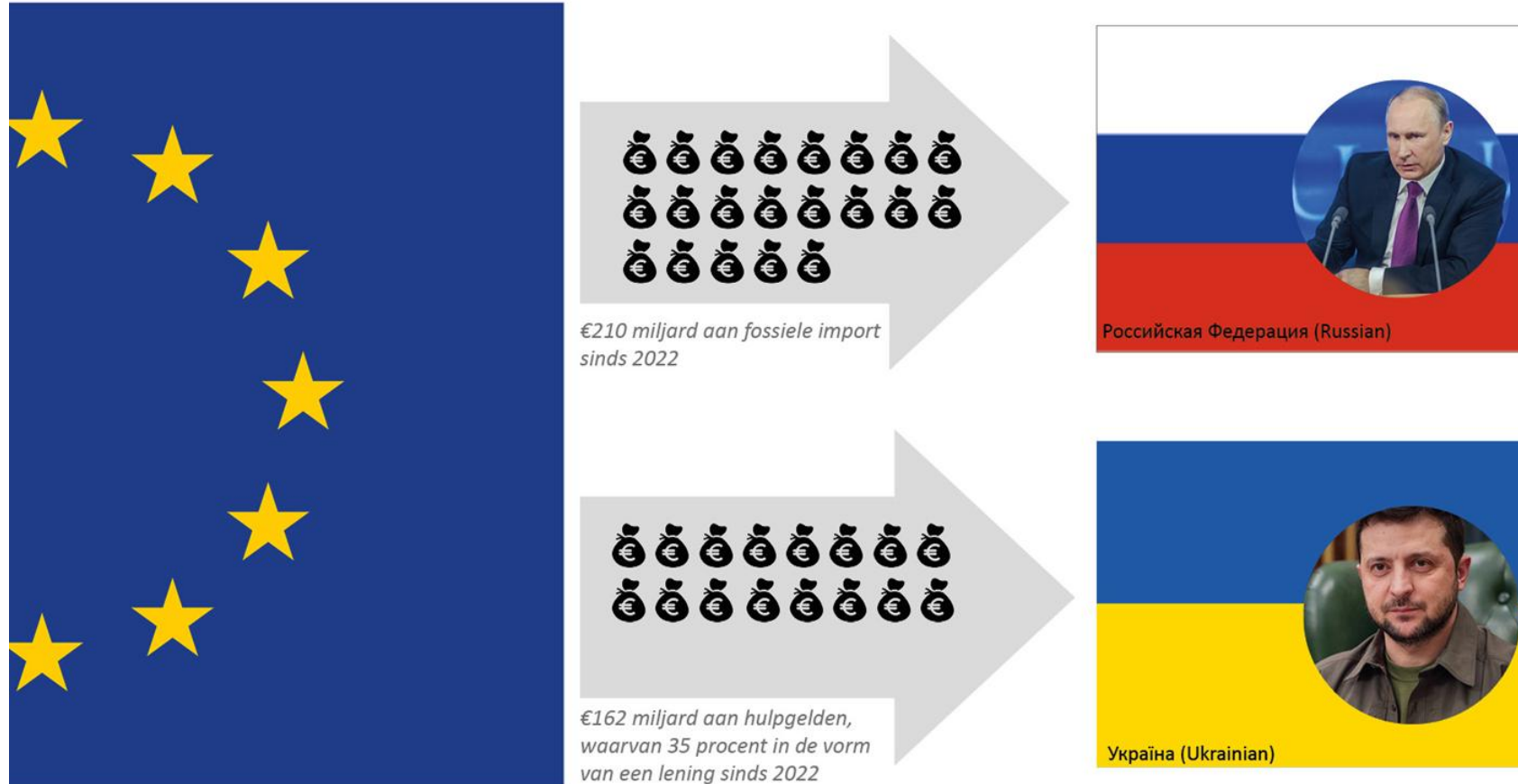
RUIM HELFT VAN VLOEIBAAR GAS KOMT UIT DE VERENIGDE STATEN

Import van lng in de Europese Unie per handelspartner, percentage van totale waarde in euro's

■ Tweede kwartaal 2024 ■ Tweede kwartaal 2025



Bestedingen van de EU aan hulp aan Oekraïne versus brandstofaankopen in Rusland



bron: EEAS - EU Assistance to Ukraine (juni 2025), CREA - Financing Putin's war: Fossil fuel imports from Russia during the invasion of Ukraine (juli 2025). 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...

GDP growth

GDP

...the **entire economy comes to a halt** as engines run out of oil, gas, and coal to power them

Economic activity

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

...only **economic growth is inhibited** in the immediate term as no new technologies can get deployed

...while the **rest of the economy can keep running** on its current technology stock — only facing a long-term challenge as aging technologies need to get replaced eventually

Economic activity

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

...most **growth can continue** being powered with materials gained from old technologies at their end of life

...while the **rest of the economy can continue to run on its circular material loop**, even in the long term

Economic activity

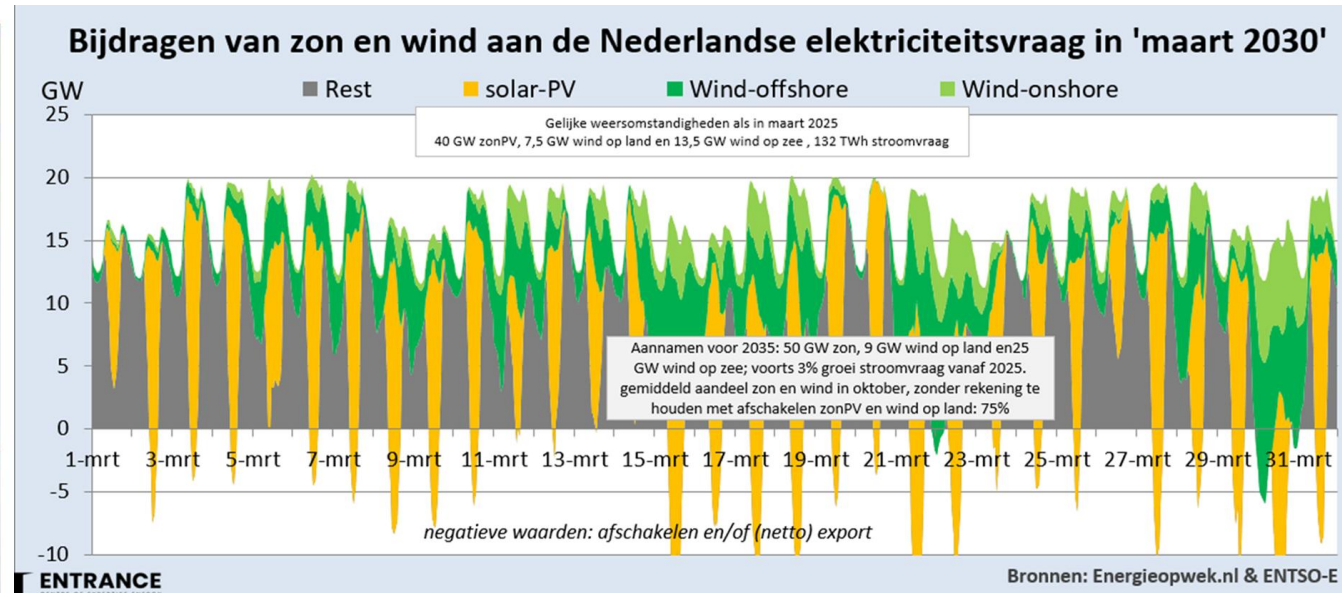
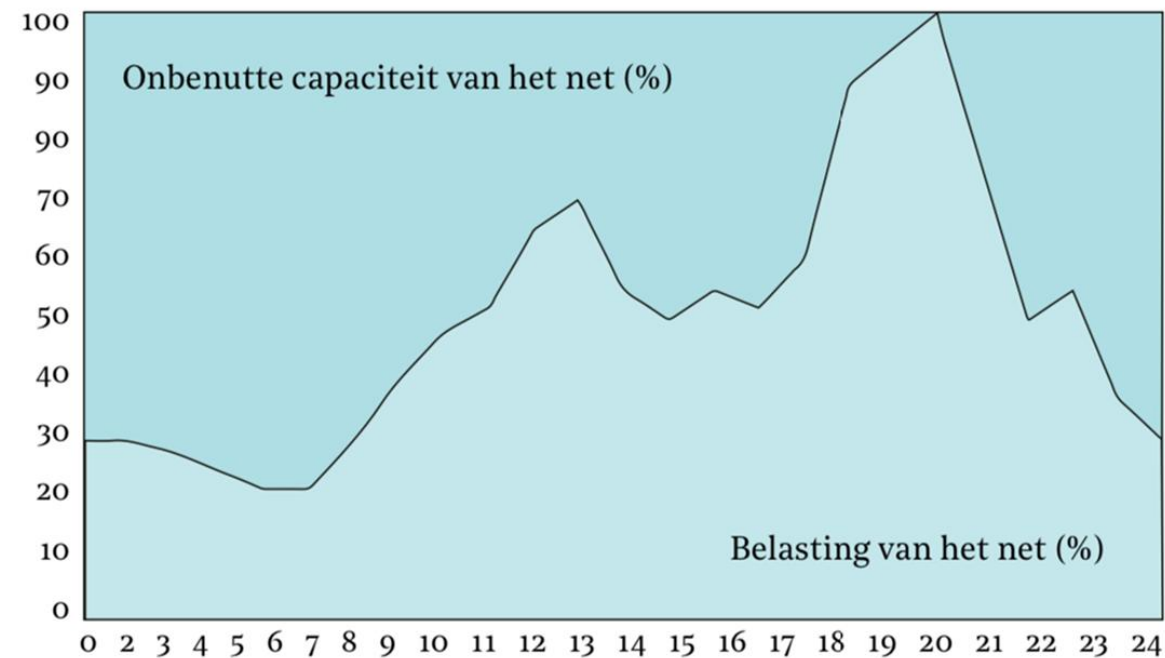
■ At risk in the immediate term

■ At risk in the long term

■ Not at risk

Flexibiliteit

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



Procedures

