

# The role of Nuclear Energy in the Energytransition in The Netherlands: A Political Perspective

FLORISKE DEUTMAN-BODISCO MASSINK,

BOARD MEMBER ENERGY TRANSITION AND NUCLEAR ENERGY FOUNDATION  
(SEK)

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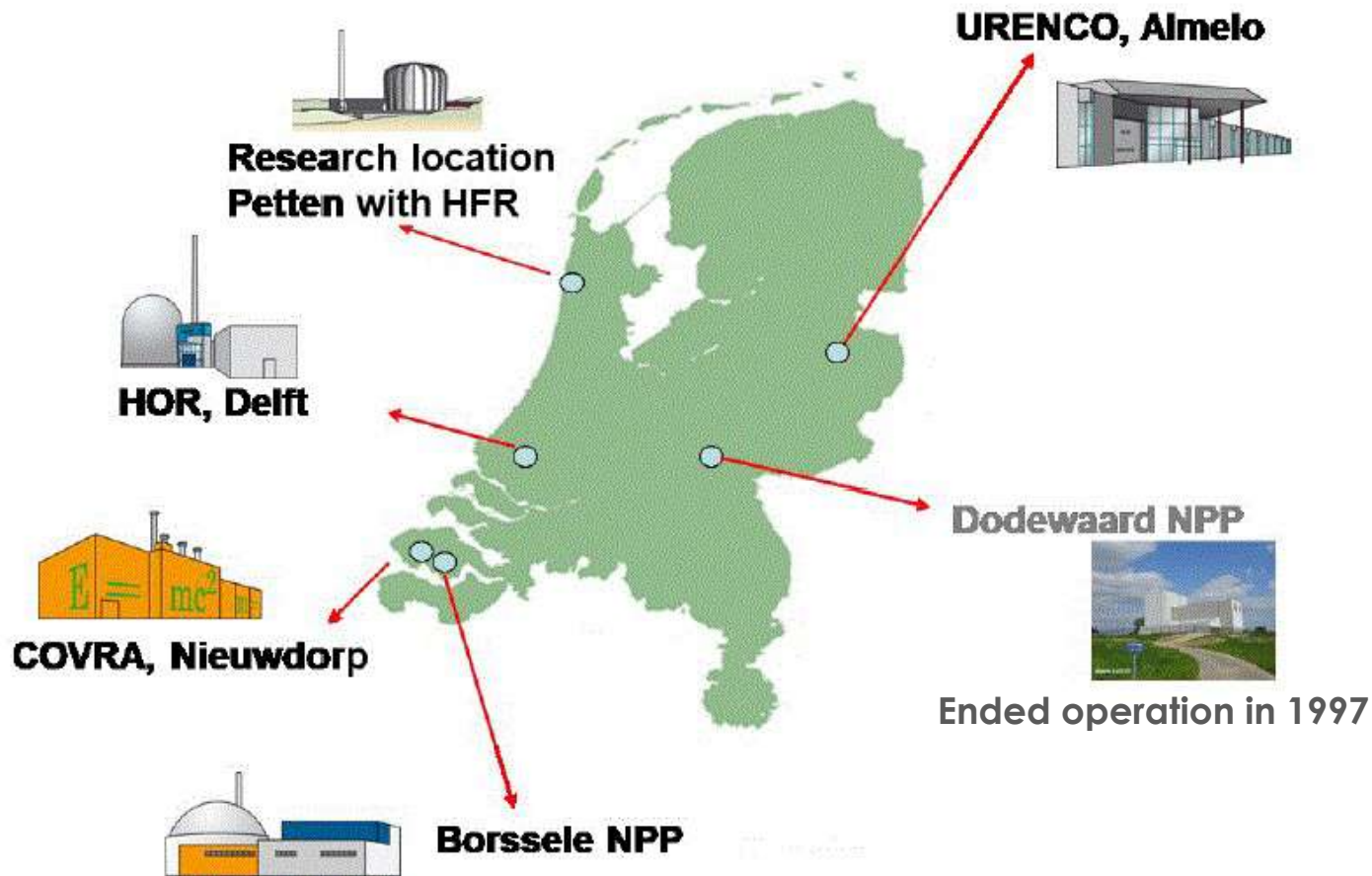
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- ▶ ABOUT SEK FOUNDATION
- ▶ NUCLEAR INDUSTRY IN THE NETHERLANDS
- ▶ ENERGY TRANSITION POLICY 1998-2021
- ▶ CURRENT POLITICAL LANDSCAPE AND ENERGY POLICIES IN THE NETHERLANDS
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# Stichting Energietransitie en Kernenergie (SEK Foundation)

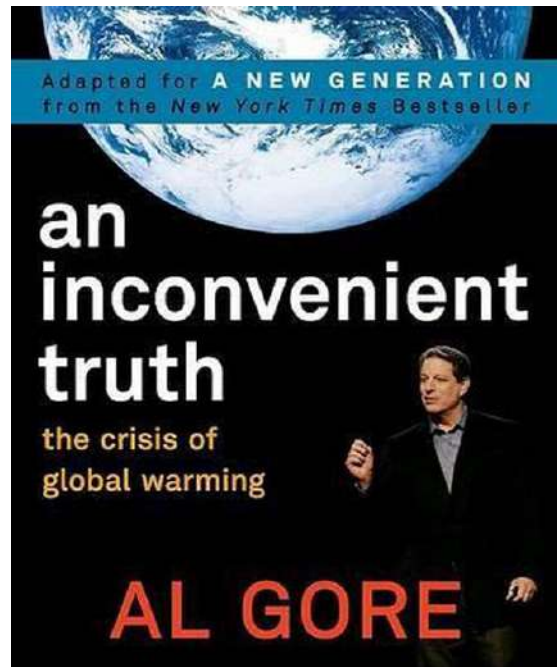
- ▶ Goal is a timely energy transition to achieve net-zero energy system in 2050;
- ▶ Taken note of the fact that nuclear energy has not been assigned a role in the 2030 Climate Agreement;
- ▶ Draws attention to nuclear energy as an option in addition to wind and solar that needs to be considered NOW in order to be able to connect nuclear power plants to the grid in time (from about 2032):
- ▶ This creates a robust mix of solar, wind and nuclear energy as the three main pillars of a Zero energy system in 2050;
- ▶ **Characteristics of the energy mix: net-zero energy system 2050, security of supply (incl. geopolitical aspects), reliable (incl. safe and quality), affordable.**

# Nuclear Industry in the Netherlands



Borssele: 1973,  
0,485 GW ( $\approx 3.5\%$  Dutch Electricity)  
License to operate until at least 2033

# Energy transition in the Netherlands started slowly...

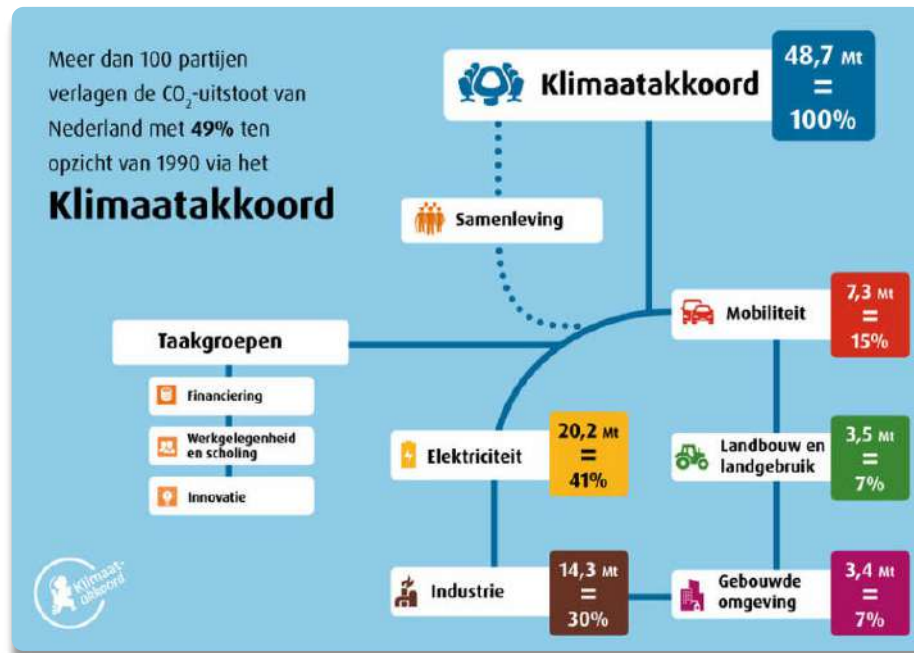


2006: an inconvenient truth



2007: Balkenende IV, approval of the building of 3 modern coal-fired power plants (total 3.4 GW, operational in 2016- 2017)

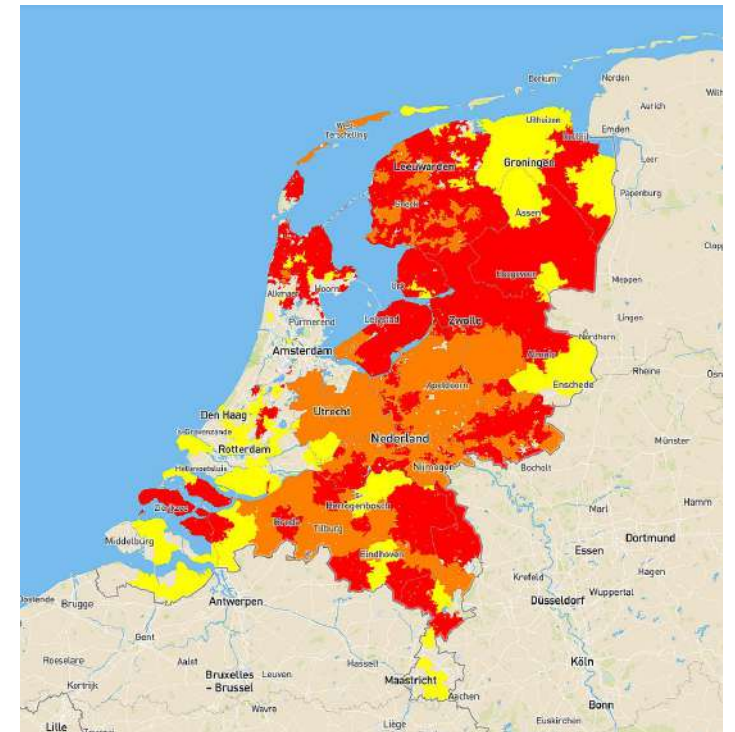
# Energy transition policy in The Netherlands



- ▶ The **Climate Agreement** presented in 2019 (nuclear was excluded).
- ▶ New government **Rutte IV climate policies**: Energy Mix from fossil to renewables + nuclear (the built of 2 new NPP's of 1500MW each)

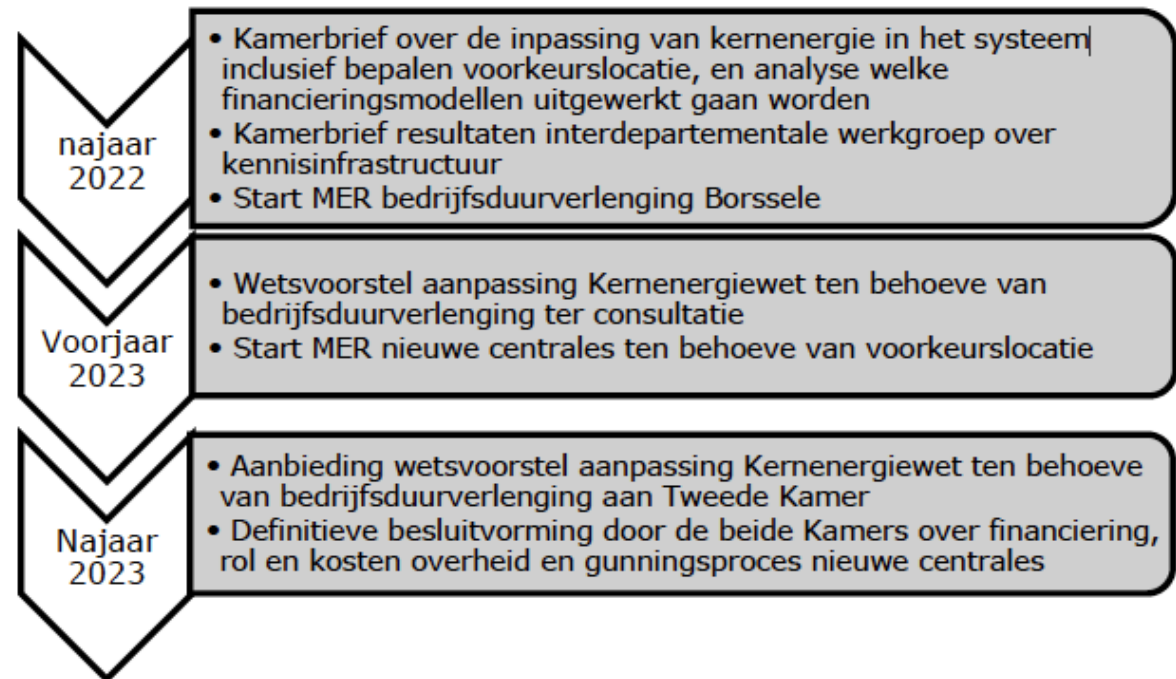
# Foreseen Challenges: Energy Infra / Grid Congestion

- ▶ Strong influx of wind and solar
- ▶ Sharp increase of electricity demand by industry & consumers
- ▶ Strengthening infra is time consuming
- ▶ Matching future supply & demand is difficult
  
- ▶ New system of congestion management
- ▶ Reduce netting arrangements
- ▶ Smart use of storage / batteries / hydrogen
- ▶ Speeding up spatial procedures for energy infra



# Nuclear initiatives

- ▶ Dutch government is gathering information and experiences from other European Countries wrt choices in the energy mix, financing models, the role of the government and risks.
- ▶ Location choices are considered
- ▶ Financing constructions and models are investigated
- ▶ 2 NPP of ca 1500MW each. growing interest for SMR's (Small Modular Reactors).

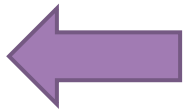




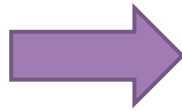
# Next steps: get connected



Government:  
ministry and  
parliament



Nuclear  
sector  
and  
NGOs



George  
Verberg  
(chair)



Floriske  
Deutman



Dirk  
Rabelink



Tjardus van  
Citters



Jacques  
de Jong



Lars  
Roobol



André  
Versteegh

Energietransitie  
& Kernenergie



Maria van  
der Hoeven



Tim van  
der Hagen



Alexander  
Rinnooy Kan



Frank  
Verhagen



Hans  
Alders



Ad  
Louter



Johan  
Remkes



Simon  
Friederich



Hans  
Wijers



Allard  
Castelein



Arnoud van  
der Slot



David  
Smeulders



Carlo  
Wolters

Thank you!

Reach us at  
[info@energietransitiekernenergie.nl](mailto:info@energietransitiekernenergie.nl)

