

NUCLEAR
INNOVATION 26
CONFERENCE



(Re-)Connecting Nuclear

Joost van den Broek, ED NES

NRG
PALLAS

Nuclear. For Life.

11-06-2026



Joost van den Broek

Executive Director
Nuclear Energy Services

NUCLEAR
INNOVATION 26
CONFERENCE



NIC2022
Ambition

NIC2024
Acceleration

NIC2026
Connecting



NIC2026 team – A big thank you!



Marieke van Gemert
Track Leader



Frederic Blom
Track Leader



Tim van Lunteren
Track Leader



Sannah van Balen
Master of Ceremonies



Rob Stegehuis
Communication



Britta Bor
Team Lead



Job van Duivenbode
EXPO Lead

NIC2026 Connecting

Key take-aways from

- 9 Tracks
- More the 50 speakers
- More than 500 slides



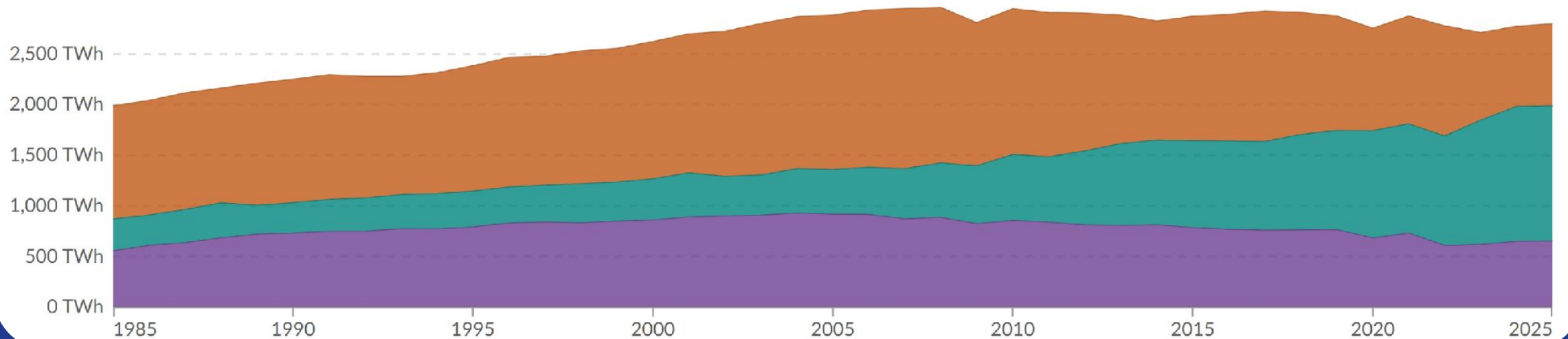
Electricity production from fossil fuels, nuclear and renewables

Our World
in Data

Electricity generation from fossil fuels (coal, gas, and oil), nuclear, and renewables (solar, wind, hydropower, bioenergy, geothermal, wave, and tidal), measured in terawatt-hours¹.

■ Nuclear ■ Renewables ■ Fossil fuels

European Union (27)

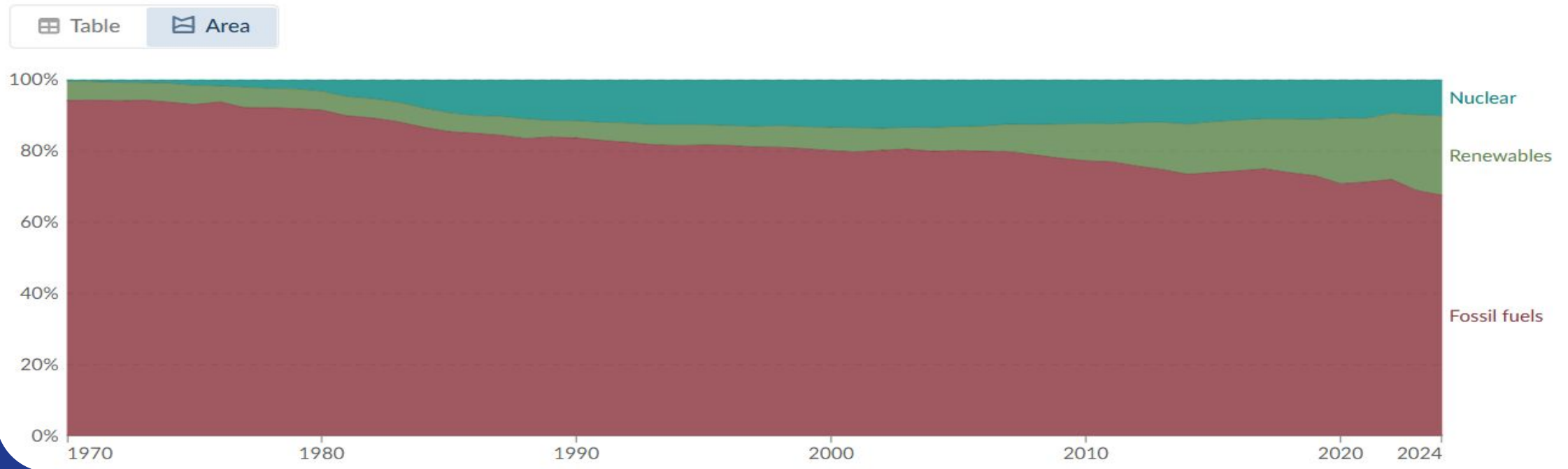


Source: Ember (2026) Energy Institute – Statistical Review of World Energy (2025)

Primary energy consumption from fossil fuels, nuclear and renewables, European Union (27)

Our World in Data

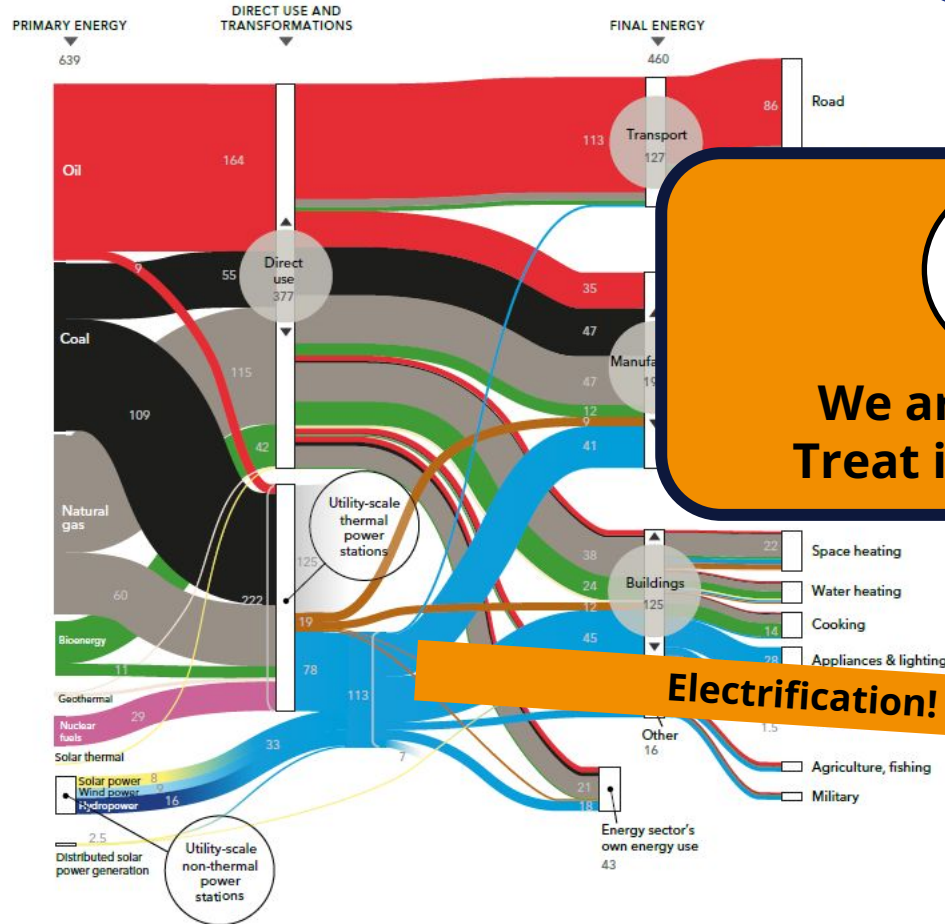
Primary energy is based on the substitution method. Renewables include hydropower, solar, wind, geothermal, wave and tidal, and bioenergy, but not traditional biofuels.



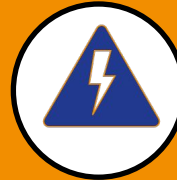
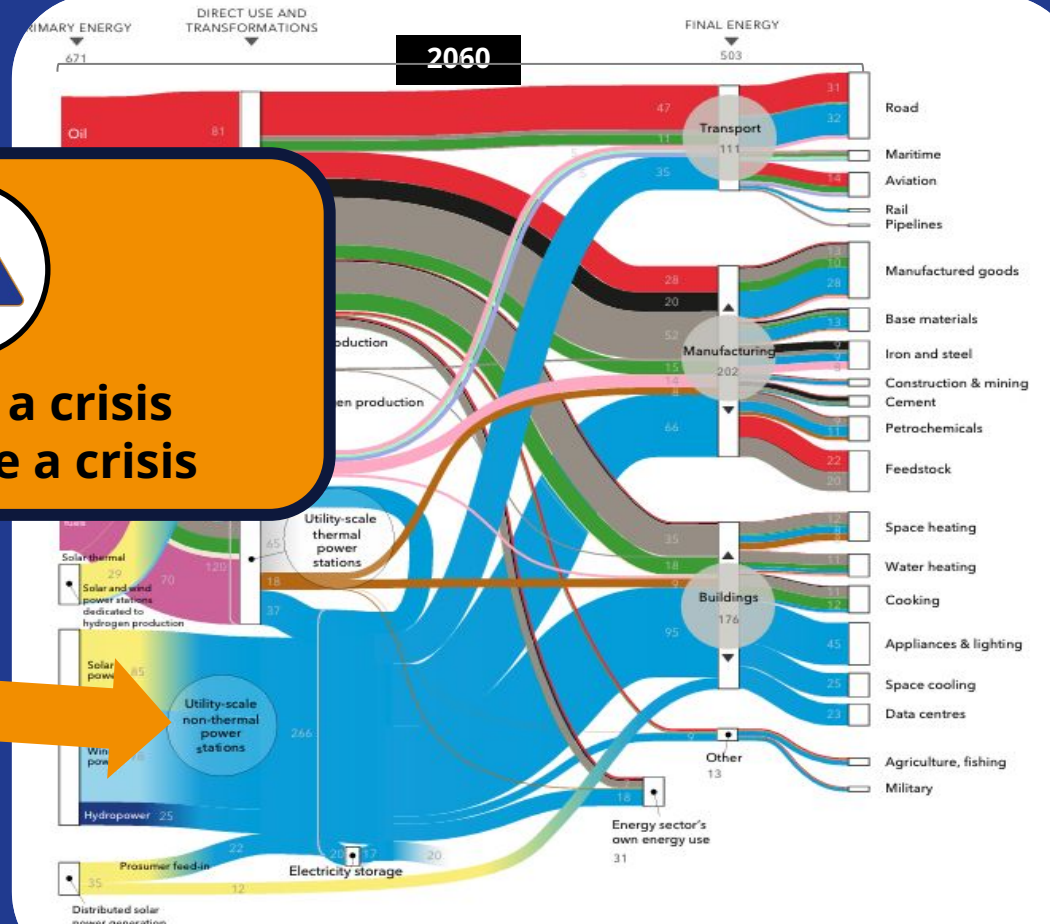
Source: Energy Institute – Statistical Review of World Energy (2025)

Paradigm shift in energy systems

2024



2060



**We are in a crisis
Treat it like a crisis**

Electrification!

Nuclear is moving from an option

□ to a necessity

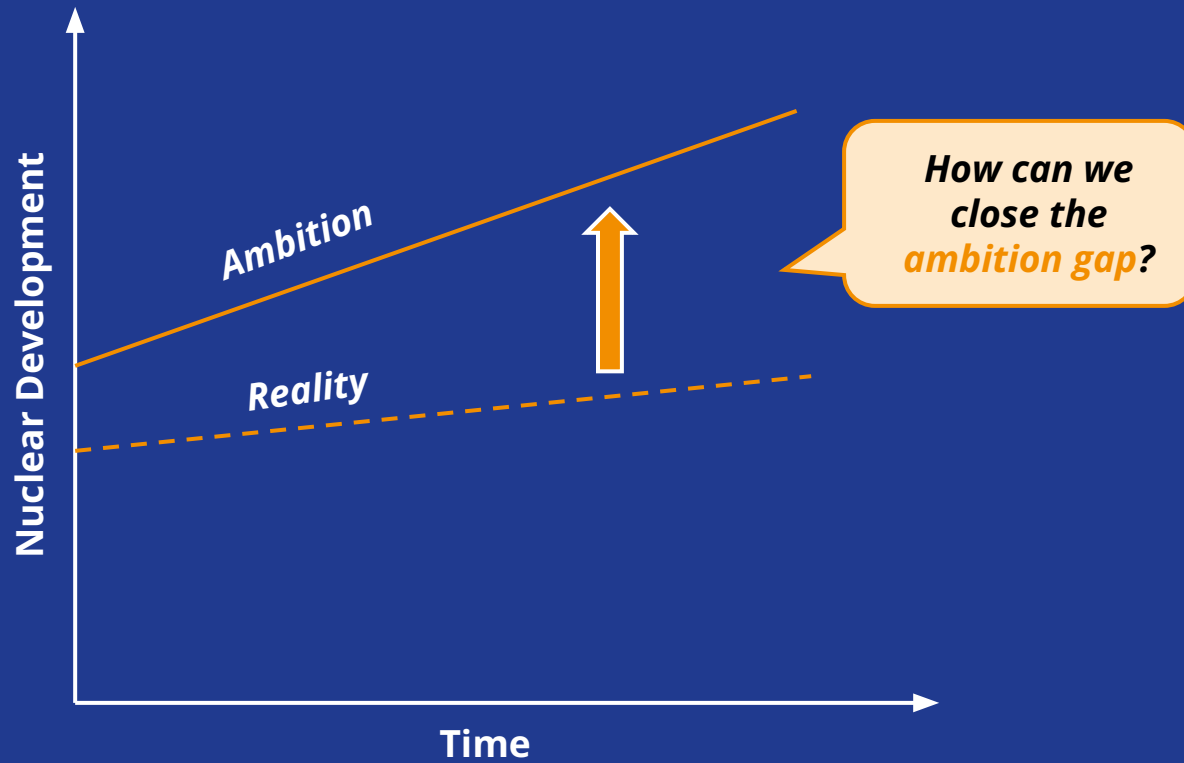
- Nuclear Energy is **back in the energy mix**, not as a niche but as **strategic**
- **Electricity demand** is about to explode
- **Current systems** are reaching their **limits**

“There is **consensus on “why”**
we need Nuclear Energy

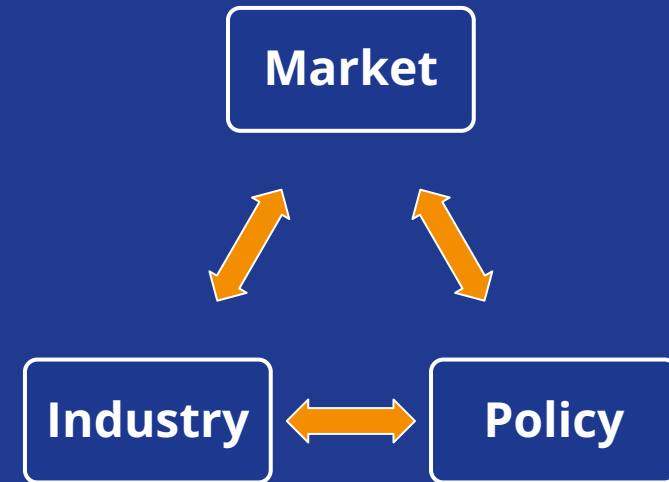
but...

**not on “how” this can be
realised**”

Where are the real challenges?



The real **bottleneck** is not about technology...

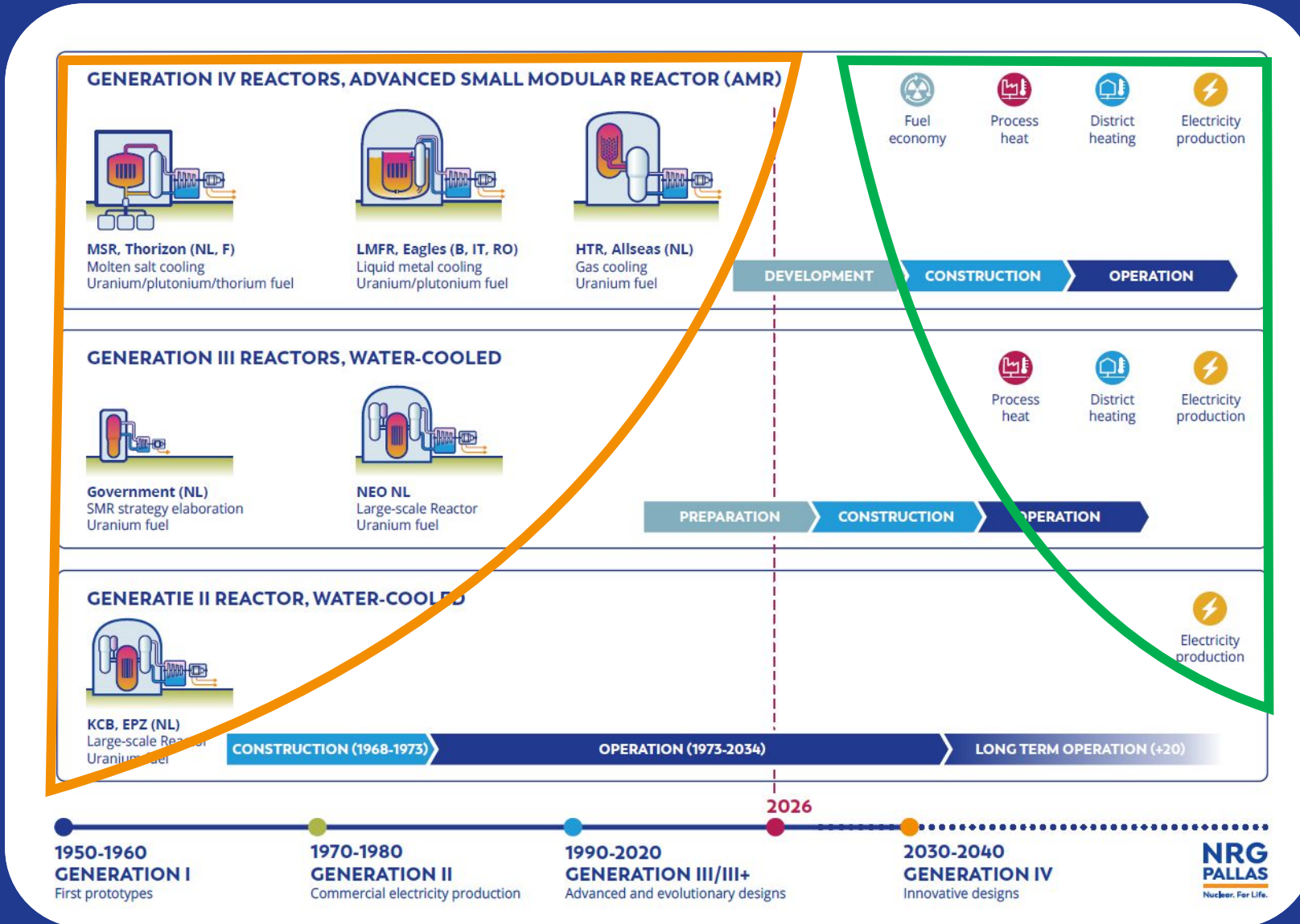


... it is **about execution**

Different ecosystems - different challenges

New generation reactor technologies

New (industry) applications



Market



- ❑ Challenging business case
- ❑ High CAPEX = risks
- ❑ Dependency on government support



- ❑ CfD (Contracts for Difference)
- ❑ RAB (Regulated Asset Base)
- ❑ Public investment

Industry



- ❑ Lacks scalability
- ❑ Limited workforce
- ❑ Not (yet) industrialised



- ❑ Standardisation
- ❑ Modularisation
- ❑ SMRs

Governance



- ❑ Long lead times
- ❑ Complex decision-making
- ❑ Fragmentation



- ❑ Speed-up licensing process
- ❑ Harmonisation

Expanding the nuclear industry..



..is essential

China as a leading example

61 

OPERABLE
REACTORS
60,289 MWe

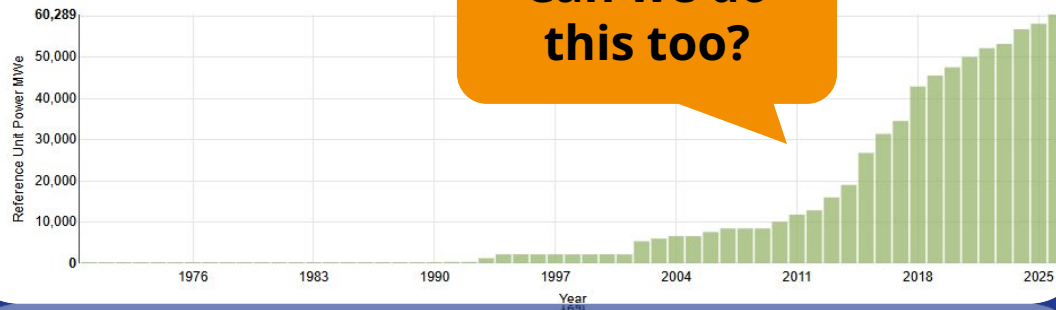
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REACTORS UNDER
CONSTRUCTION
41,074 MWe

0 

REACTORS
SHUTDOWN
0 MWe

Operable nuclear power capacity



Can we do
this too?

Source: WNA

France as an example

57 

OPERABLE
REACTORS
63,000 MWe

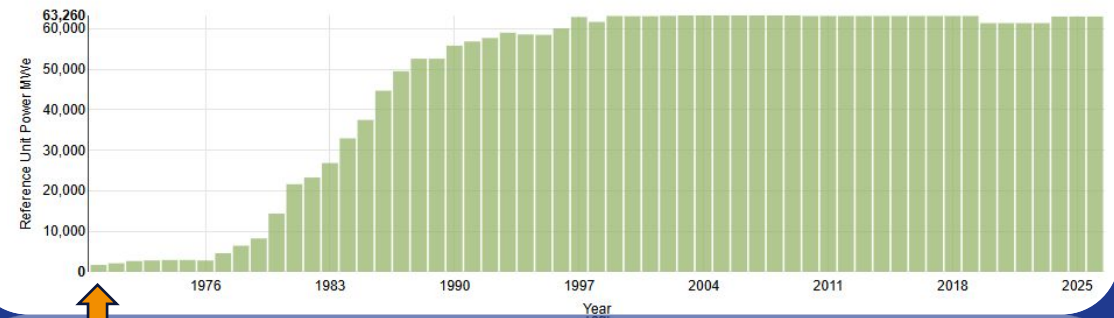
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REACTORS UNDER
CONSTRUCTION
0 MWe

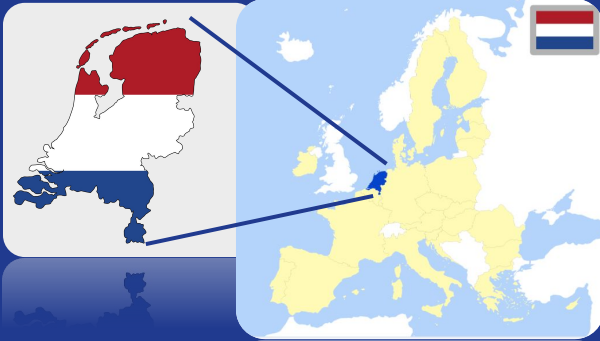
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REACTORS
SHUTDOWN
5,563 MWe

Operable nuclear power capacity



1973 Oil crisis
Messmer plan



Small player....

... but:

- High Energy Demand
- Strong industry clusters
- Serious grid issues



No established nuclear construction supply chain....

..... but strong capabilities in:

- Engineering
- system integration
- complex infrastructures

However....

...the opportunity lies in connecting

- Energy ↔ Industry
- Public ↔ Private
- National ↔ International

The Netherlands as an integrator of nuclear applications within a complex energy system

NIC2026



These more than 50 speakers do not tell a single story, but reflect a **sector in transition**:

“Aligned on the need, searching for scale, and dependent on who is willing to deliver.”