New Nuclear in Germany ?

Consequences of the Nuclear Phase Out and Status of the German „Energiewende“

11.02.2026 | Estonia, Tallinn - Ulrich Gräber

The great German Poet Goethe might be helpful to understand the German “**Energiewende**”

"So that was the crux of the matter!" exclaims Goethe's Faust in amazement as the Poodle transforms into Mephisto.

The "crux of the matter" of the energy transition ”Energiewende” is revealed in Germany's supposed pioneering role, which turns out to be less a technological advance than a culture war – a struggle in which climate protection is defined primarily by moral superiority.

The result is **Germany’s Fundamental Delusion**.

GERMANY'S FUNDAMENTAL DELUSION

- Prosperity without electricity growth
- Germany a pioneer in climate protection
- Demolition of its own nuclear power plants, but nuclear power from the neighbours
- 20 new gas-fired power plants, but no gas exploration in Germany

A PROMISING START OF NUCLEAR ENERGY IN GERMANY

- In 1955 joint efforts by politics, science and industry enabled the peaceful use of nuclear energy in a period of only five years.
- By the end of the 1970s, 10 nuclear power plants with a total capacity of 9,000 megawatts were connected to the grid, 6 nuclear power plants with a total capacity of 8,000 megawatts were under construction
- At the beginning of the 1980s, the construction of the three Konvoi nuclear power plants with a total capacity of over 4,000 megawatts began.


SCHLESWIG-
HOLSTEIN
MECKLENBURG-
VORPOMMERN
BREMEN
NIEDER-
SACHSEN
BERLIN
BRANDENBURG
SACHSEN-ANHALT
NORDRHEIN-WESTFALEN
SACHSEN
HESSEN
THÜRINGEN
RHEINLAND-
PFALZ
SAAR-
LAND
BAYERN
BADEN-
WÜRTTEMBERG
HH
806 KKB
Brunsbüttel
1440 KBR
Brokdorf
672 KKS
Unter-
weser
Stade
1316 KKK
Krümmel
440 440 440 440 440
KGR-1 bis 5
Greifswald
1410 KKU
1400 KKE
Emsland
268 KWL
Lingen
1430 KWG
Grohnde
70 KKR
Rheinsberg
308 THTR-300
Hamm-Uentrop
670 KWW
Würgassen
15 AVR
Jülich
1302 KMK
Mülheim-
Kärlich
16 VAK
Kahl
25 HDR
Großwelzheim
1225 1300 KWB-A/B
Biblis
357 KWO
Obrig-
heim
1345 KKG
Grafenrheinfeld
926 1458 KKP-1/2
Philipps-
burg
57 MZFR
Karls-
ruhe
21 KNK-II
840 1395 GKN-1/2
Neckar-
westheim
106 KKN
Niederaichbach
1344 1344
Isar
KRB-II-B/C
250 KRB-A
Gund-
remmingen
912 1475 KKI-1/2
Kernkraftwerke in Deutschland
> 1000
100 – 1000
< 100
25
Elektrische Bruttoleistung
des Reaktors
in Megawatt (MW)
Rheinsberg
Standort und Name
des Reaktors
Hochtemperaturreaktor
stillgelegt
Schneller Brutreaktor
stillgelegt
Druckröhrenreaktor
stillgelegt
Heißdampfreaktor
stillgelegt
Siedewasserreaktor
in Betrieb/stillgelegt
Druckwasserreaktor
in Betrieb/stillgelegt


Höchstspannungsnetz (2012)
Leitung 220 kV
Leitung ≥380 kV
Umspannwerk
Kraftwerke mit einer Leistung über 1000 MW:
Kernkraftwerk
Steinkohlekraftwerk
Braunkohlekraftwerk
≥ 3000 MW
≥ 2000 MW
≥ 1000 MW
450 kV DC
Baltic Cable
400 kV DC
Kontek
300 kV DC BorWin1
600 kV DC BorWin2
Kiel
Brokdorf
Hamburg
Schwerin
Bremen
Emsland
Hannover
Berlin
Potsdam
Magdeburg
Gersteinwerk
Grohnde
Jänschwalde
Scholven
Voerde
Dortmund
Schwarze Pumpe
Boxberg
Essen
Leipzig
Frimmersdorf
Düsseldorf
Lippendorf
Dresden
Neurath
Niederaußem
Köln
Erfurt
Weisweiler
Staudinger
Wiesbaden
Frankfurt
Grafenrheinfeld
Mainz
Mannheim (GKM)
Heilbronn
Saarbrücken
Philippsburg
Karlsruhe
Neckarwestheim
Irsching
Stuttgart
Isar
Altbach/Deizisau
Gundremmingen
München
100 km

2011 X

6.000 MW of installed Nuclear Power had been taken from the grid since 2000

2023 X

15.000 MW of istalled Nuclear Power had been taken from the grid since 2011

21.000 MW since 2000

2010

Nuclear Power (21 GW) and Fossil fuels (79 GW) together produced 85.3% of total electricity generation.

Renewable energy (48.4 GW) produced 14.7% of total electricity generation

A total of 615 TWh (100%) was produced by 148.4 GW of installed capacity.

net export 17 TWh = 598 TWh

2025

Fossil power (77.5 GW) produced 39.2% of electricity generation.

Renewable energy (184 GW) produced 55.8% of electricity generation.

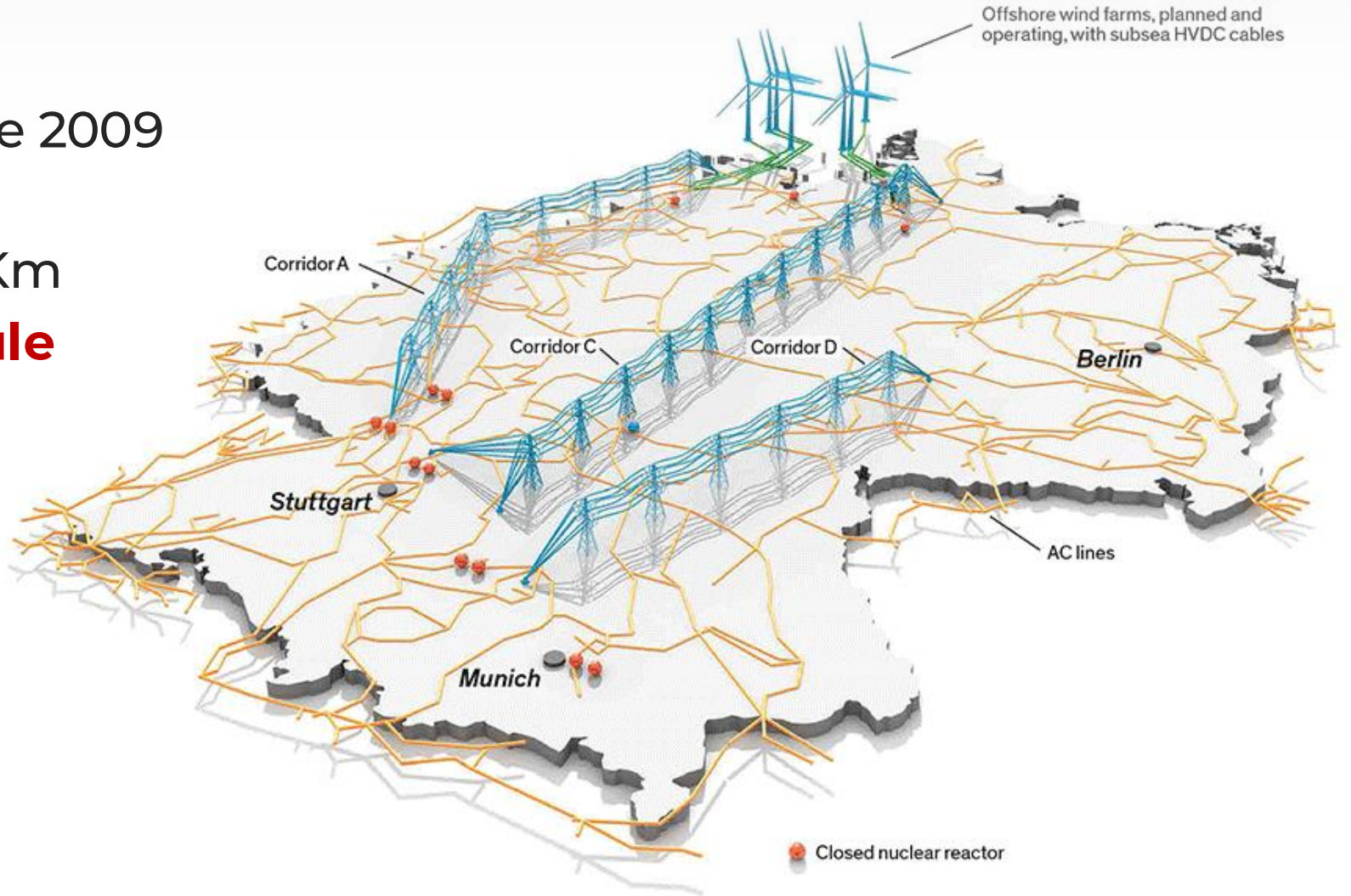
A total of 437 TWh (95%) were produced by 261.0 GW of installed capacity.

net import 22 TWh = 459 TWh

Required expansion of the high-voltage grid | 17.000 Km

- Completed 3.350 Km since 2009
- Approved 4.530 Km
- Under Construction 780 Km

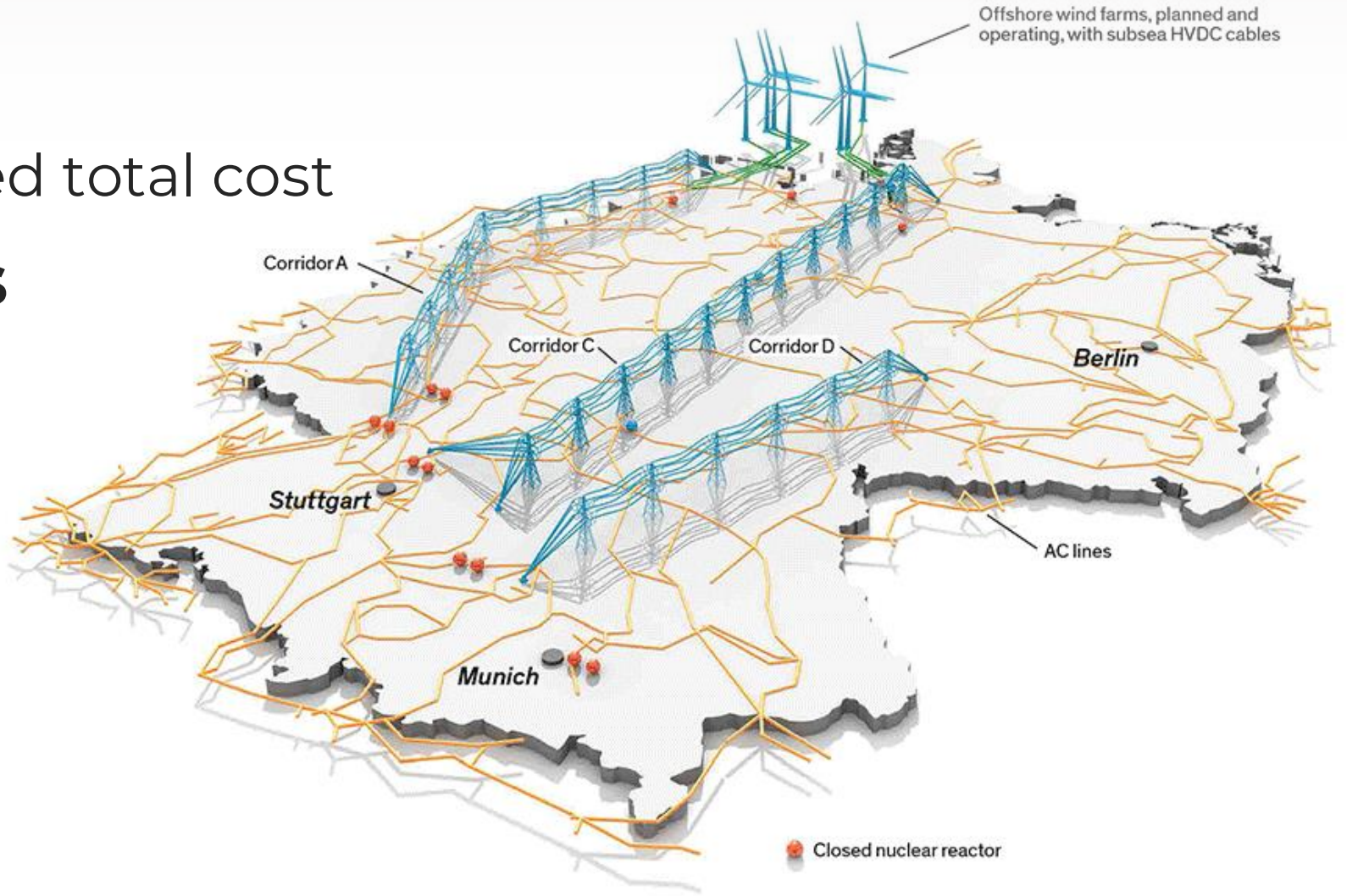
> 6.000 Km behind schedule



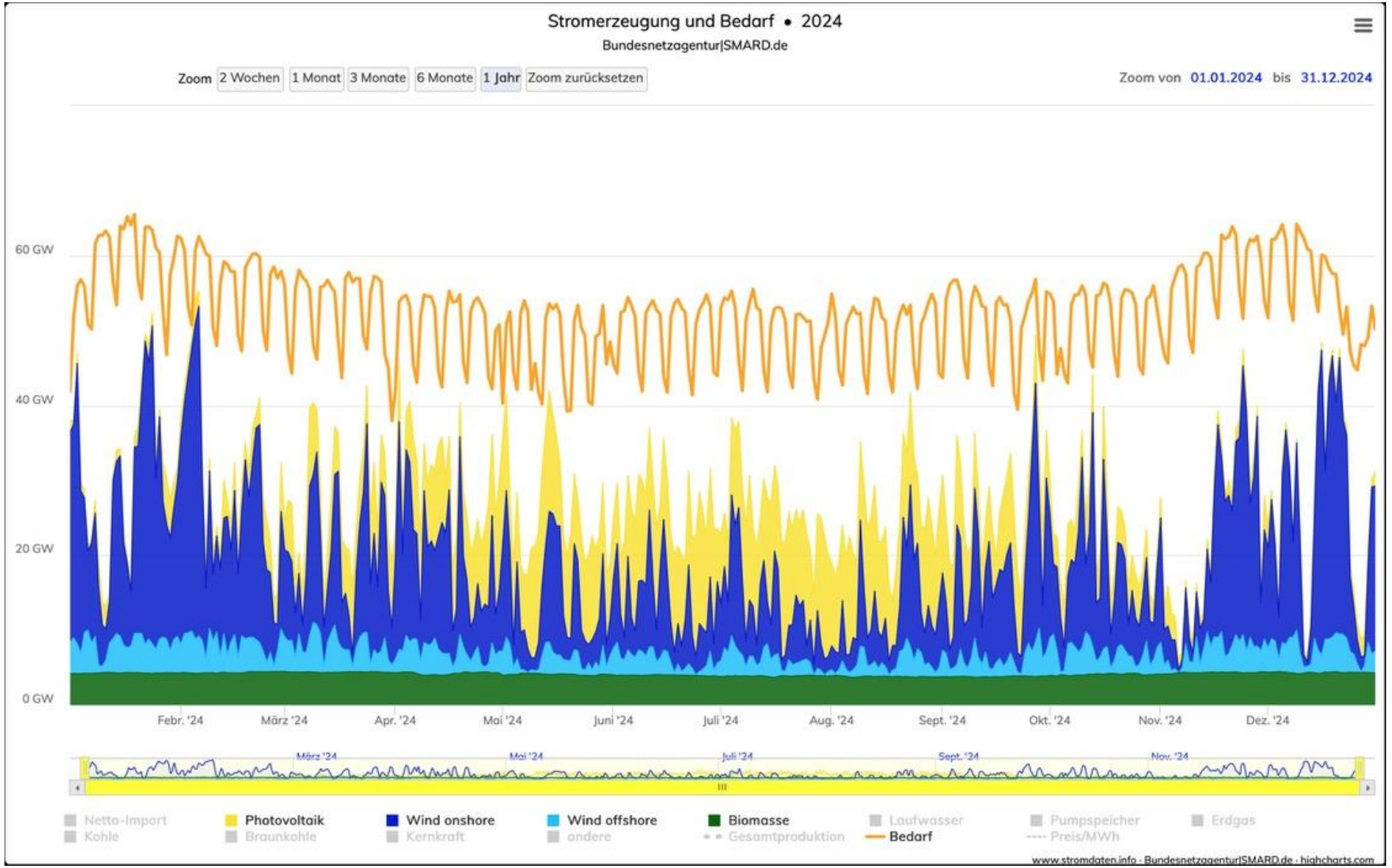
„Energiewende“ cost until today 600 Billion Euros

„Energiewende“ estimated total cost

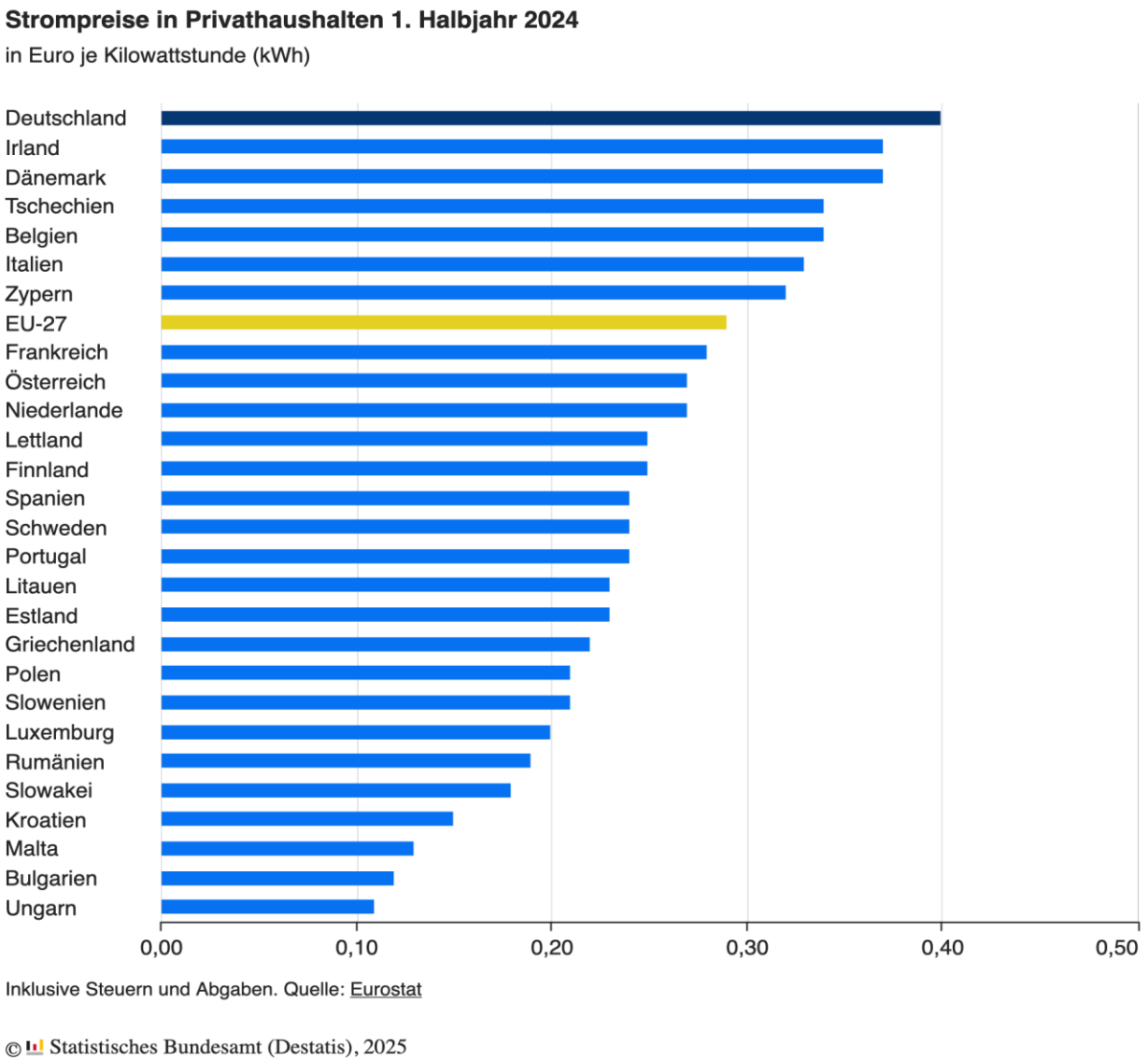
> 1.000 Billion Euros



Renewable Generation and Electricity Demand 2024



Electricity Prices in the EU



GERMANY'S FUNDAMENTAL DELUSION

Germany a pioneer in climate protection?

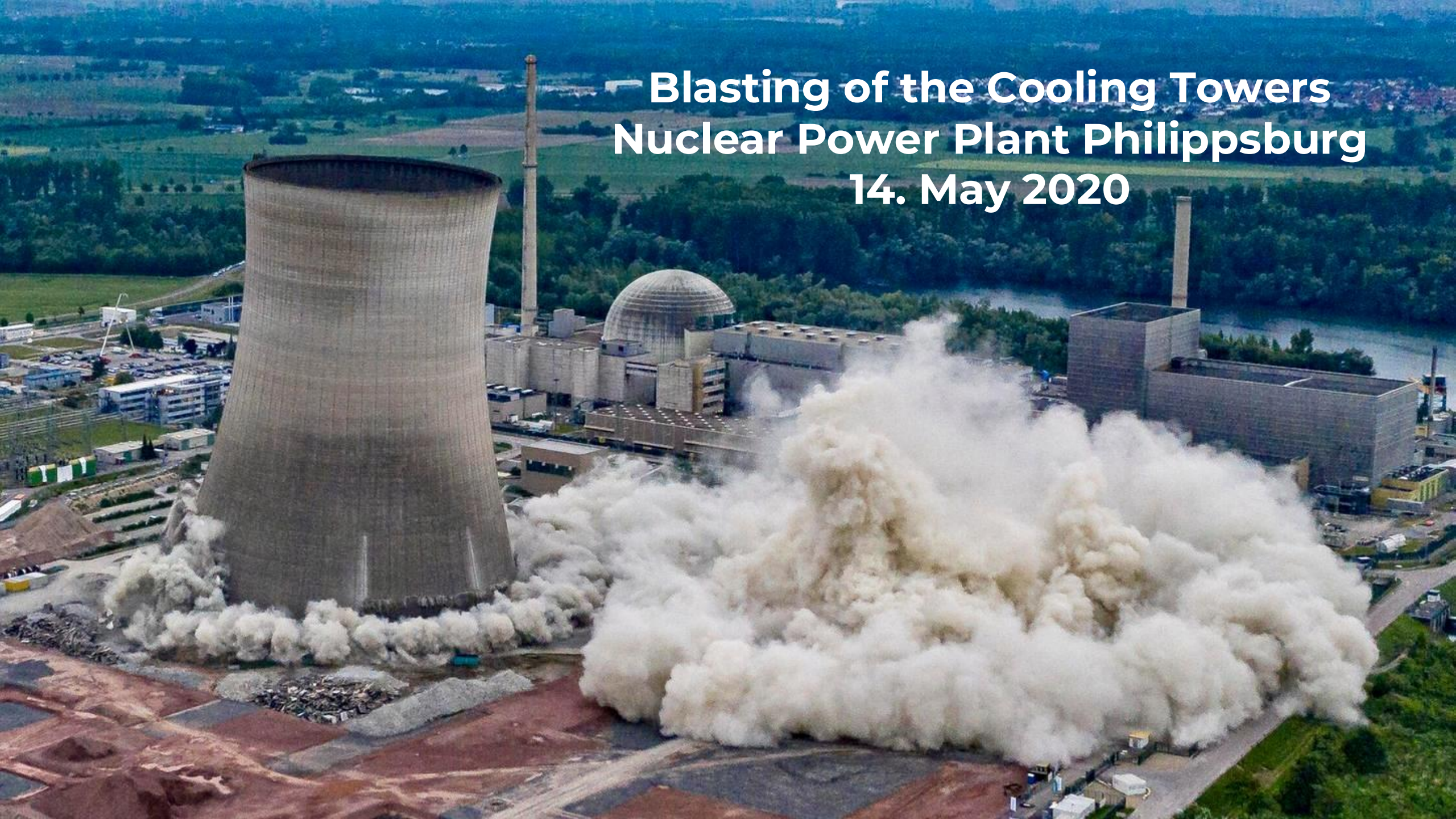
Since the Nuclear Phase-out in 2023 monthly

10 Millions tons more CO^2 Emissions

	DE Germany	FR France
CO_2 content per kWh	350 g	35 g

GERMANY’S FUNDAMENTAL DELUSION

Demolition of its own nuclear power plants, but nuclear power from the neighbors



Blasting of the Cooling Towers
Nuclear Power Plant Philippsburg
14. May 2020

GERMANY’S FUNDAMENTAL DELUSION

Demolition of its own nuclear power plants, but nuclear power from the neighbors

2024 Germany **imported 19.000 GWh** Nuclear Power from its Neighbours

NEW NUCLEAR IN GERMANY ?
Why not!

Atomgesetz „New Build Paragraph 7“ was modified six times, it could be modified again!

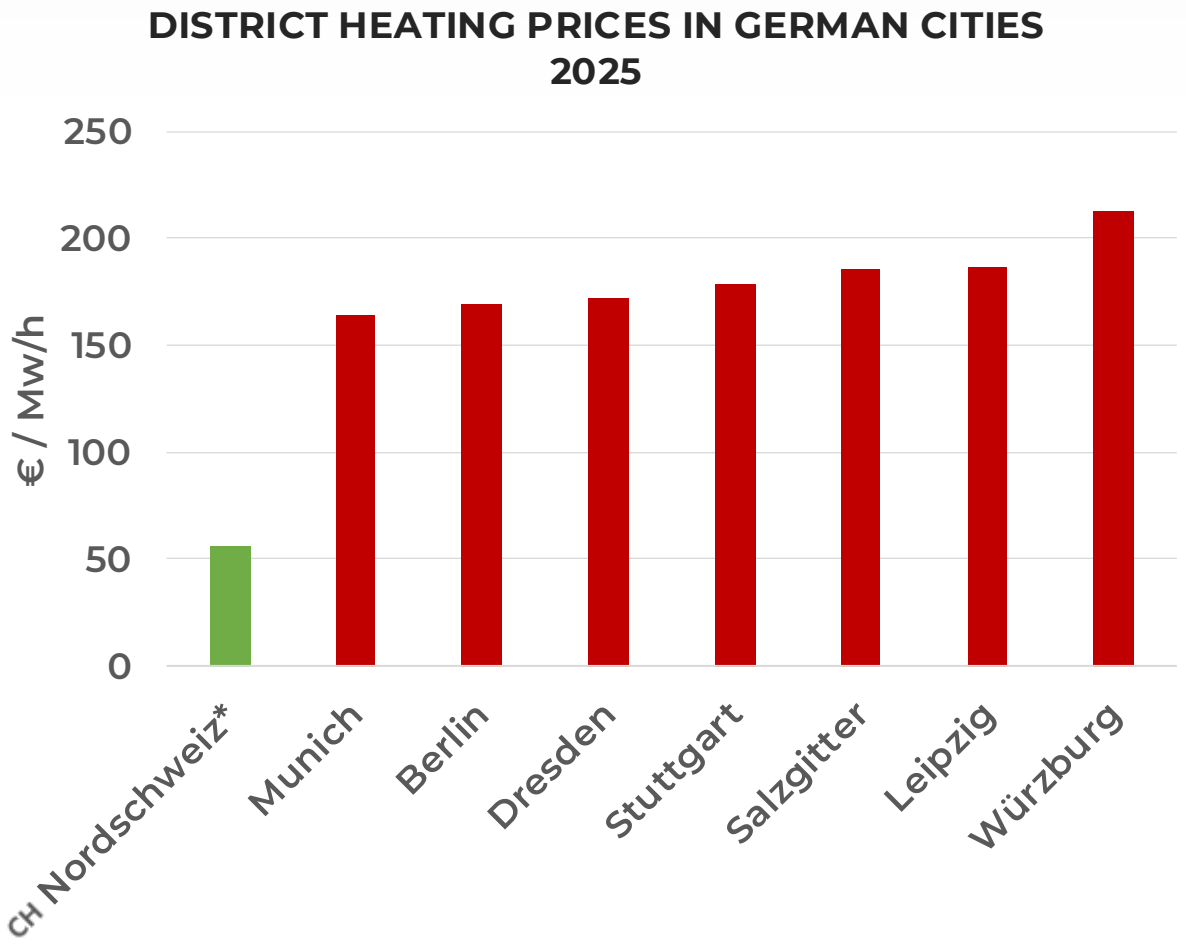
Acctualy NOT forbidden: the New Build of Nuclear Power Plants for Heat Production and non commercial Electricity Production

DISTRICT HEATING IN GERMANY

Heat capacity: ~71 GW(th)

Heat generation: 135–140 TWh for 6 million homes

- Very high and increasing heating costs
- Domination of gas as fuel
- Legally binding decarbonization
- Poorly scaling alternatives (heat pump, biomass, biogas)



*Heat from Beznau Nuclear Power Plant

waermepreise.info

DISTRICT HEATING IN GERMANY

HEATING REQUIREMENTS

7.000+ operating hours per year

CO_2-neutral and stable price

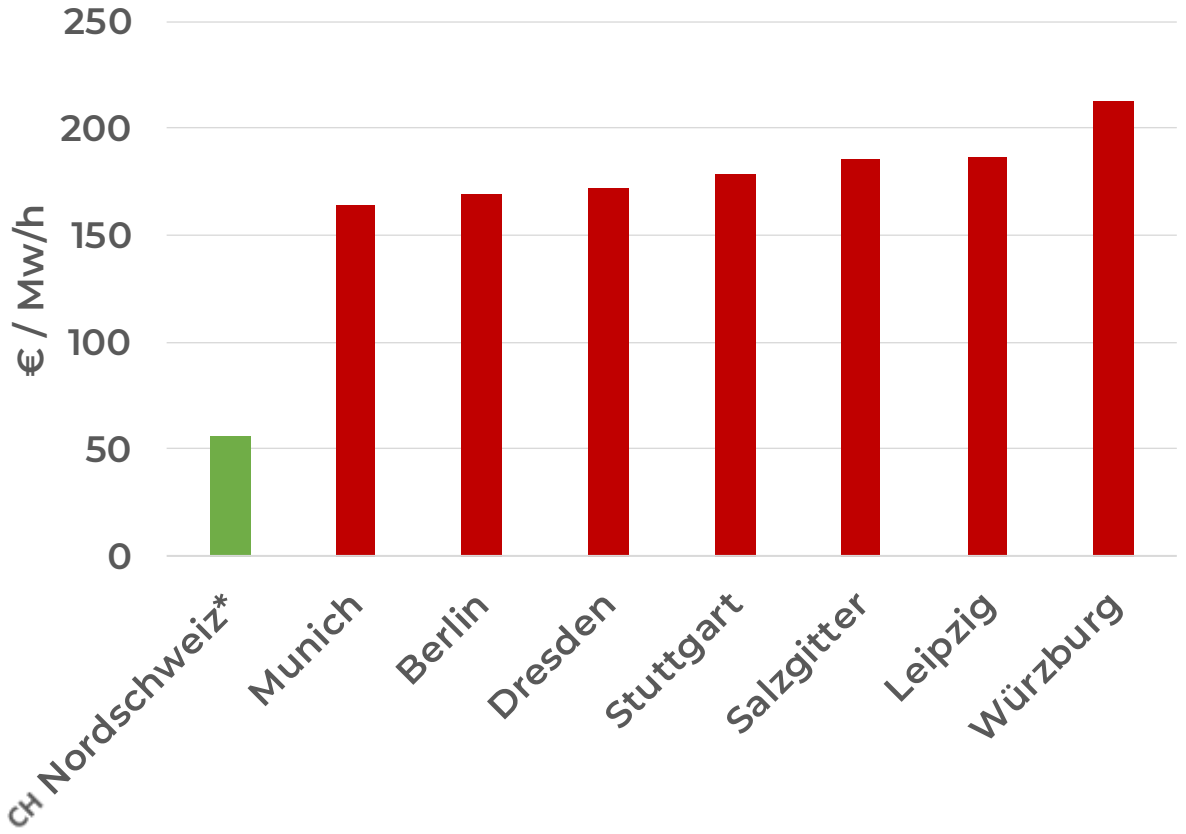
Heat output at: 95–140 °C

STEADY ENERGY HEAT REACTOR OFFERS:

Universal Scalability

- Low cost: 40-45€/MWth
- Full decarbonization
- Independence of power price

DISTRICT HEATING PRICES IN GERMAN CITIES 2025



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NEW NUCLEAR IN GERMANY ?

YES!

With Fermi Deutschland the new SMR Nuclear Technology is

established

and there is a young

Pro Nuclear Generation

Thank you