



European Sustainable Energy Seminar

17-19 August, 2026

Venue: Nordic Folkecenter for Renewable Energy, Ydby, Denmark



European Climate and Energy Transition, Energy Futures, the Role of Hydrogen and Other New Developments

Gunnar Boye Olesen, INFORSE-Europe & VE, Denmark



Presentation is part of Proceedings: https://inforse.org/europe/seminar_2026_INFORSE-Europe_Denmark.htm



Swedish Society
for Nature Conservation



Latvijas Zaļā kustība
Latvian Green Movement



Naturvernforbundet
Friends of the Earth Norway



Eesti
Roheline
Liikumine
Estonian Green Movement-FoE



Funded by the
Nordic Council
of Ministers



INFORSE-EUROPE
International Network for Sustainable Energy

OTWARTY



YEE
YOUTH AND
ENVIRONMENT
EUROPE



Erasmus+

Funded by
the European Union

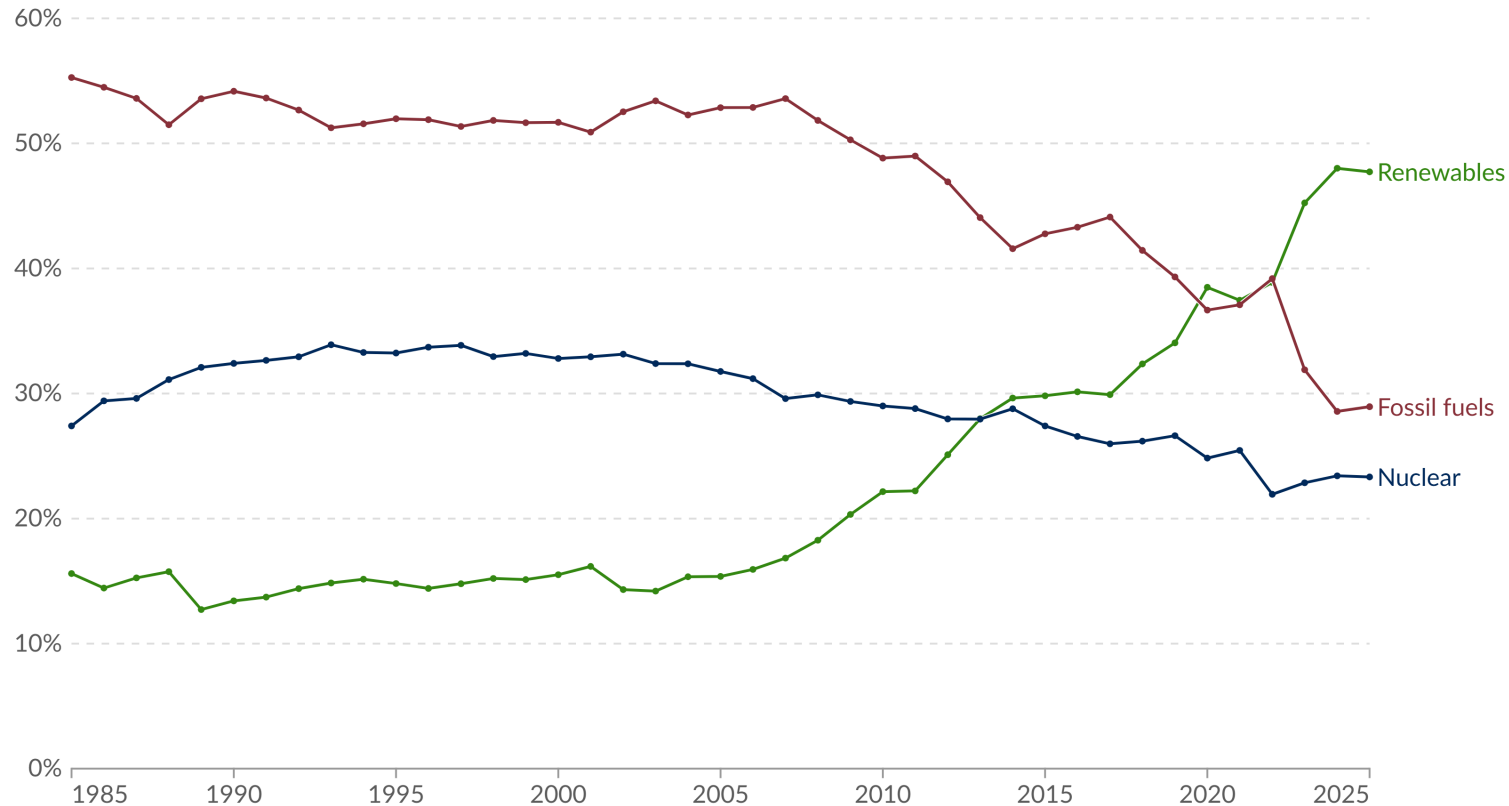
Transition Is On its Way

Share of electricity generation from fossil fuels, renewables and nuclear

Our World
in Data

European Union (27)

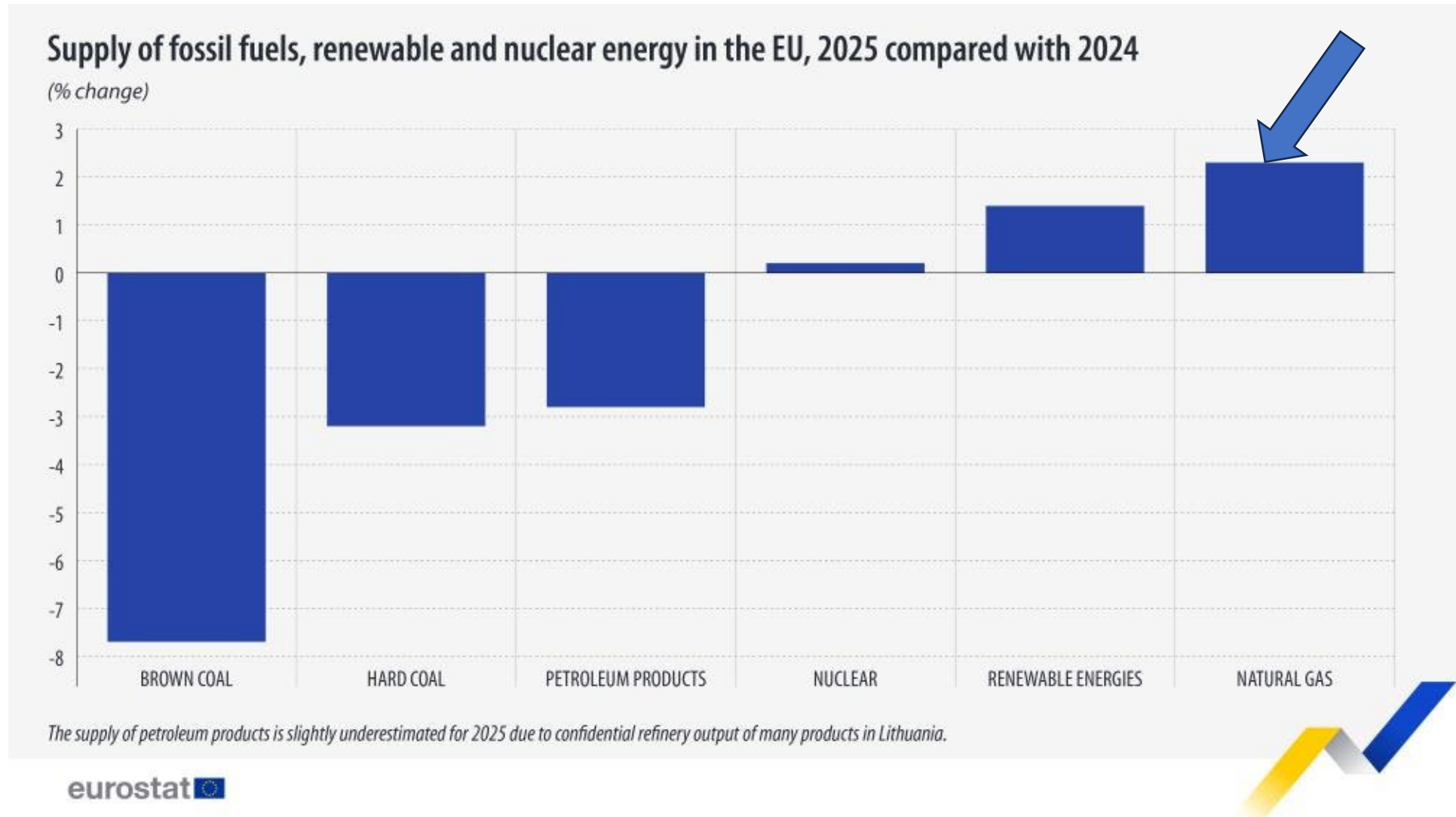
Measured as a percentage of total electricity produced in the country or region. Fossil fuels include coal, oil, and gas. Renewables include solar, wind, hydropower, bioenergy, geothermal, wave, and tidal.



Data source: Ember (2026) and other sources

OurWorldinData.org/energy | CC BY

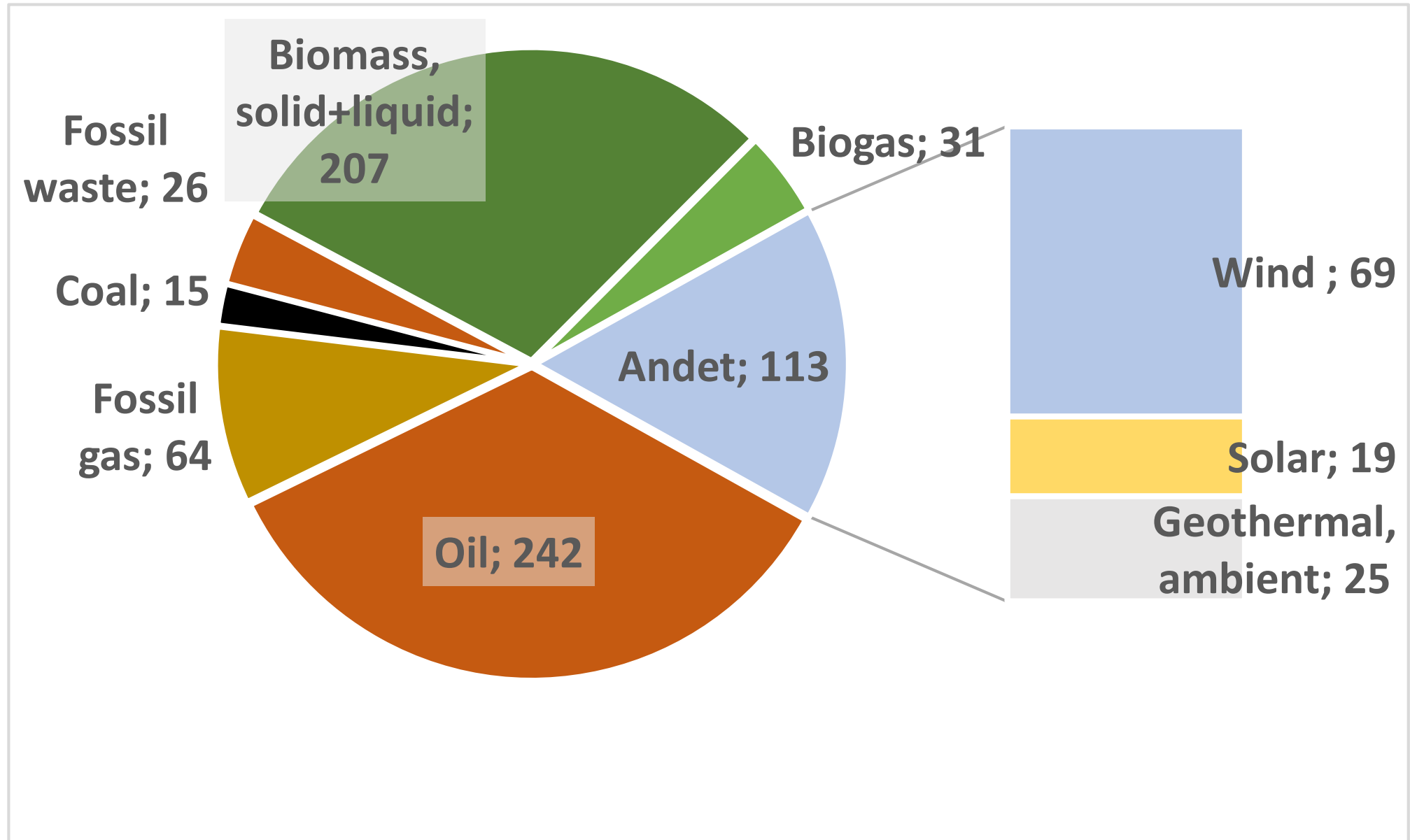
But We Use More Gas in EU



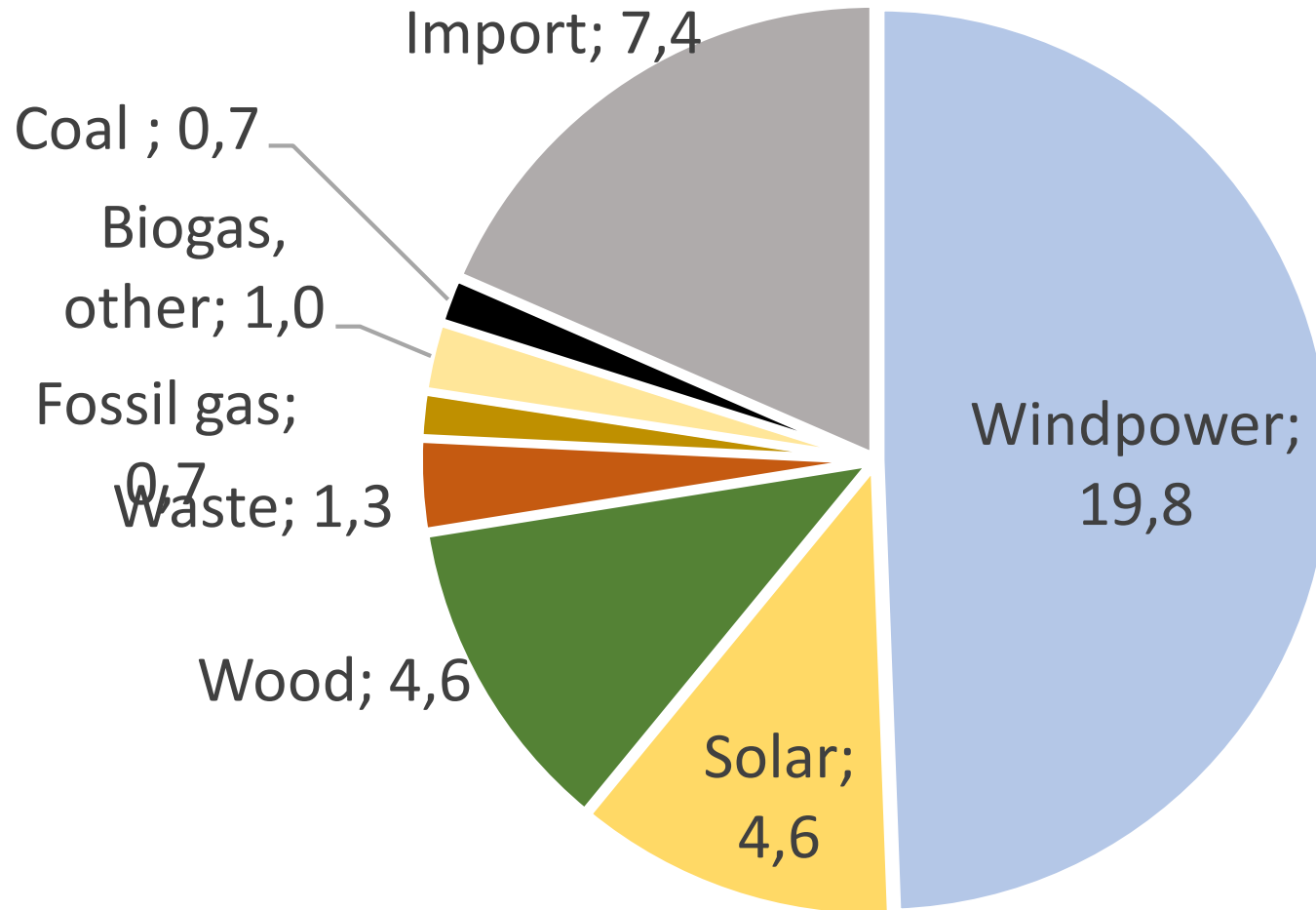
Danish Energy and Climate Plans

- 70% greenhouse gas emission reduction 1990-2030
- and 85% reduction 1990-2035 (new government)
- All electricity shall be renewable by 2030
- All gas shall be (net) renewable before 2035 (2030 not achieved)
- Offshore windpower tendered, 2,8 GW + energy island Bornholm
- Support for energy efficiency in business and for households with low energy class
- Support for heat pumps and district heating

Danish Primary Energy Demand, 2025: 711 PJ



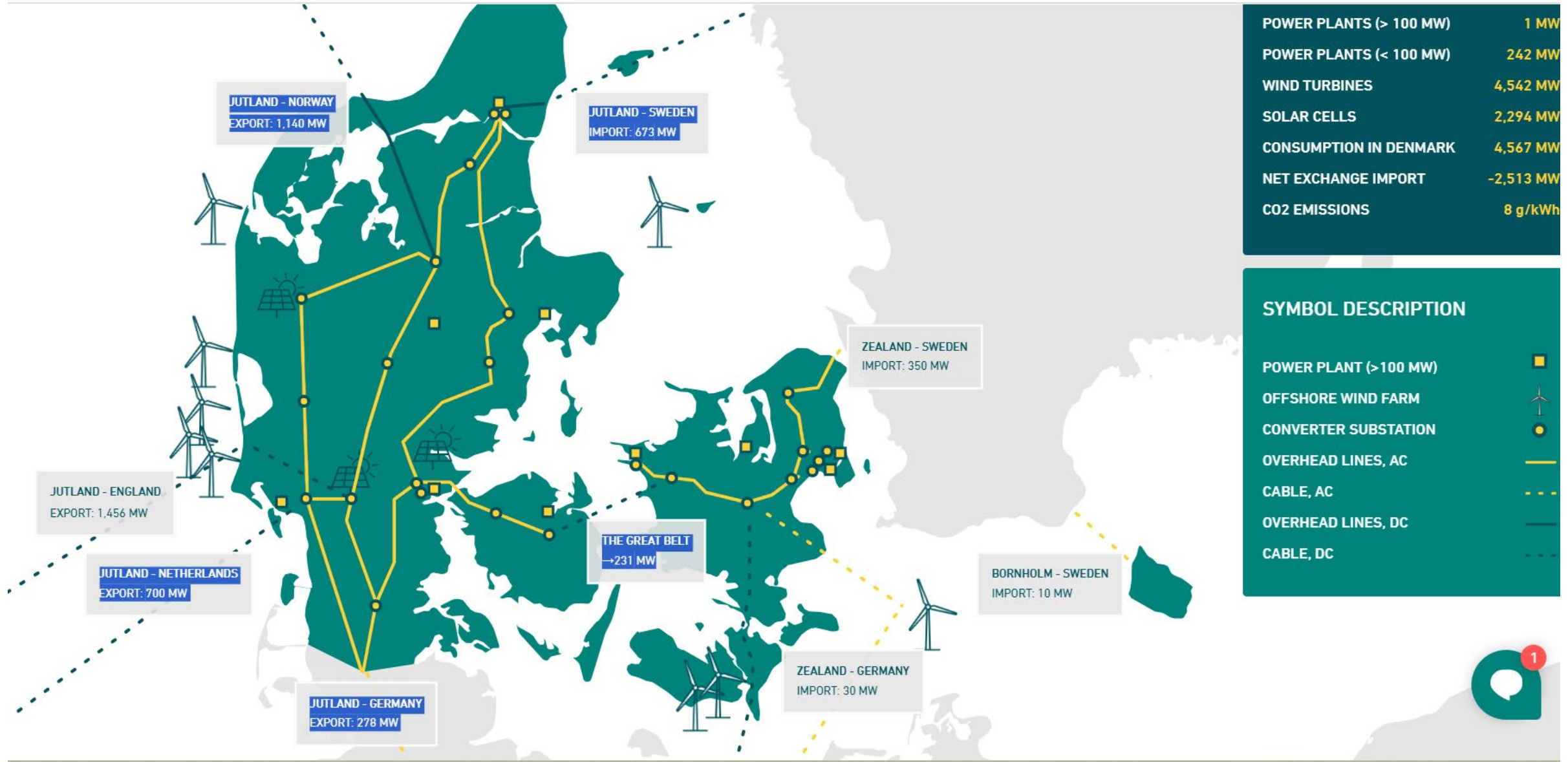
Danish Electricity Supply 2025, TWh



Danish Energy Realities

- Lower energy consumption, 2% less in 2024-2025, 12% less since 2000
- Lower oil consumption, 5,5% less in 2024-2025, mainly with electric cars
- Solar and heat pumps are increasing, other renewables are not
- High biomass consumption
- Many obstacles for renewable energy, and also protests against wind, solar and biogas.
- District heating is very popular and growing, many local coops
- Rules for energy communities are not supportive, but many try
- Right wing politicians and many people want nuclear, but no plans

Danish Power System – Well Connected



Even More Integrated Gas System

DAILY UPDATE AT 12 NOON CET

