

Germany

- Population of Germany is 83 Million (largest in EU)
- Installed capacity is 388 GW, 7 % from wind
- Wind mills installed capacity is 27.2 GW
- Total number of wind turbines 21, 607

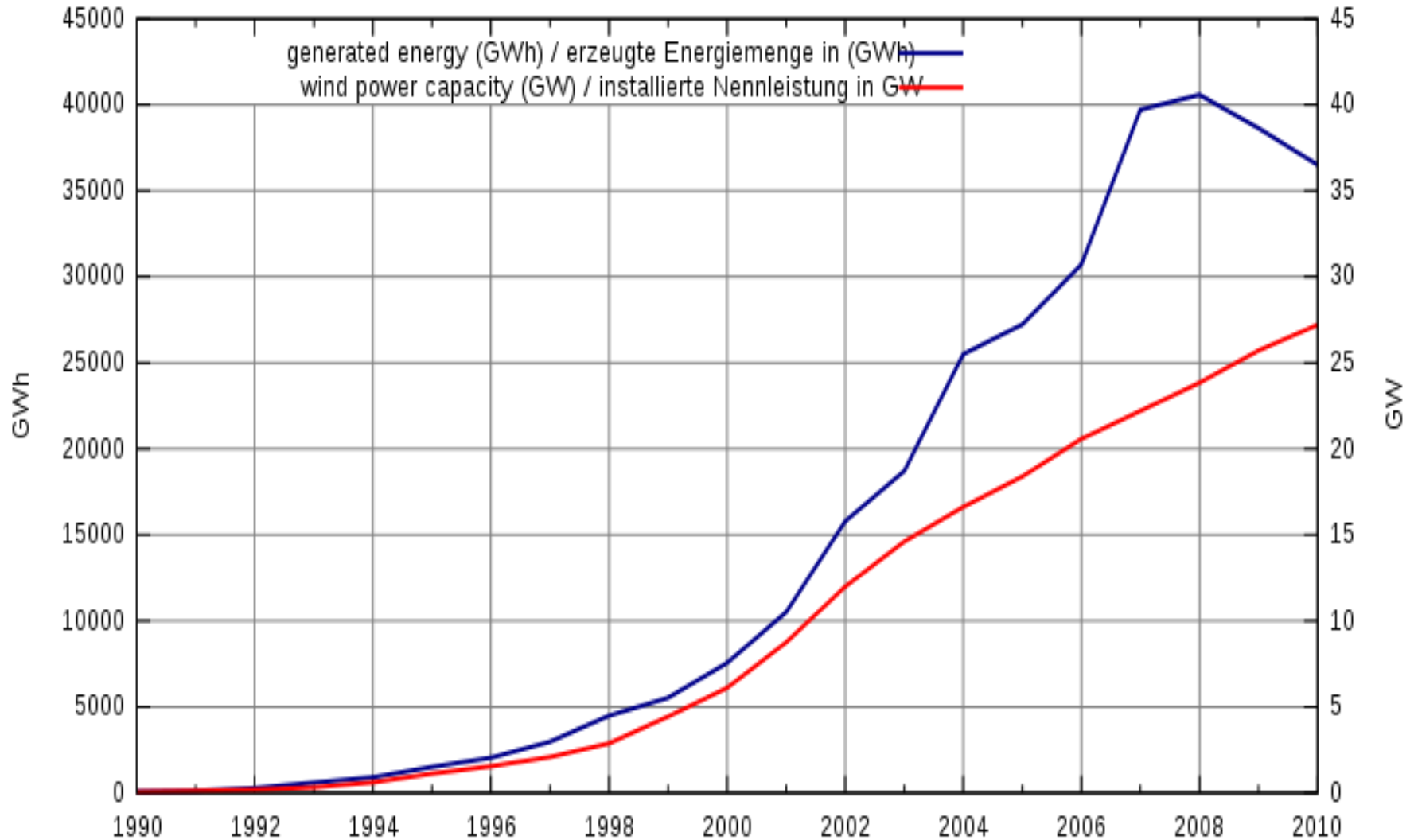
Germany

- [Germany](#) is [Europe](#)'s largest and the world's 6th greatest single emitter of CO₂.
- Germany obtains 25% of its electricity from nuclear energy, using 17 reactors.
- With a new government in 2009, the nuclear phase-out was cancelled, but then reintroduced in 2011.
- 6300 kWh per capita.
- Coal provides about half of the country's electricity. Gas supplied 12%, wind 7%

Energy policy

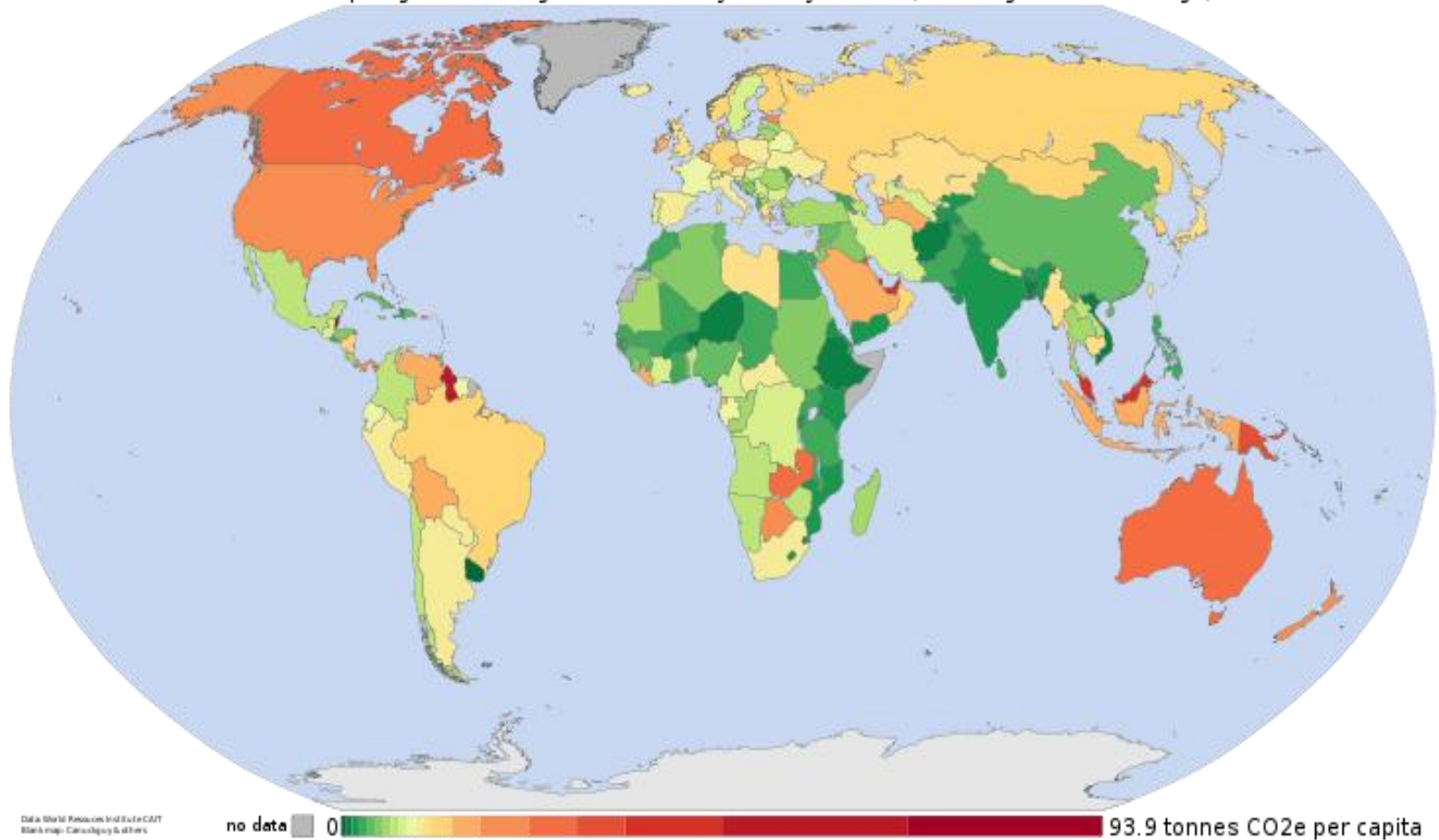
- Policies were adopted to promote renewable sources, notably solar and wind
- This is primarily to reduce carbon dioxide emissions. By 2020 it is planned that renewables should contribute 20% of electricity supplies, compared with 14% at present (half of this being hydro, half wind).
- Due to the feed-in tariffs of the Renewable Energy Sources Act (EEG – Erneuerbare Energien Gesetz) passed in 2000,

Wind Energy growth



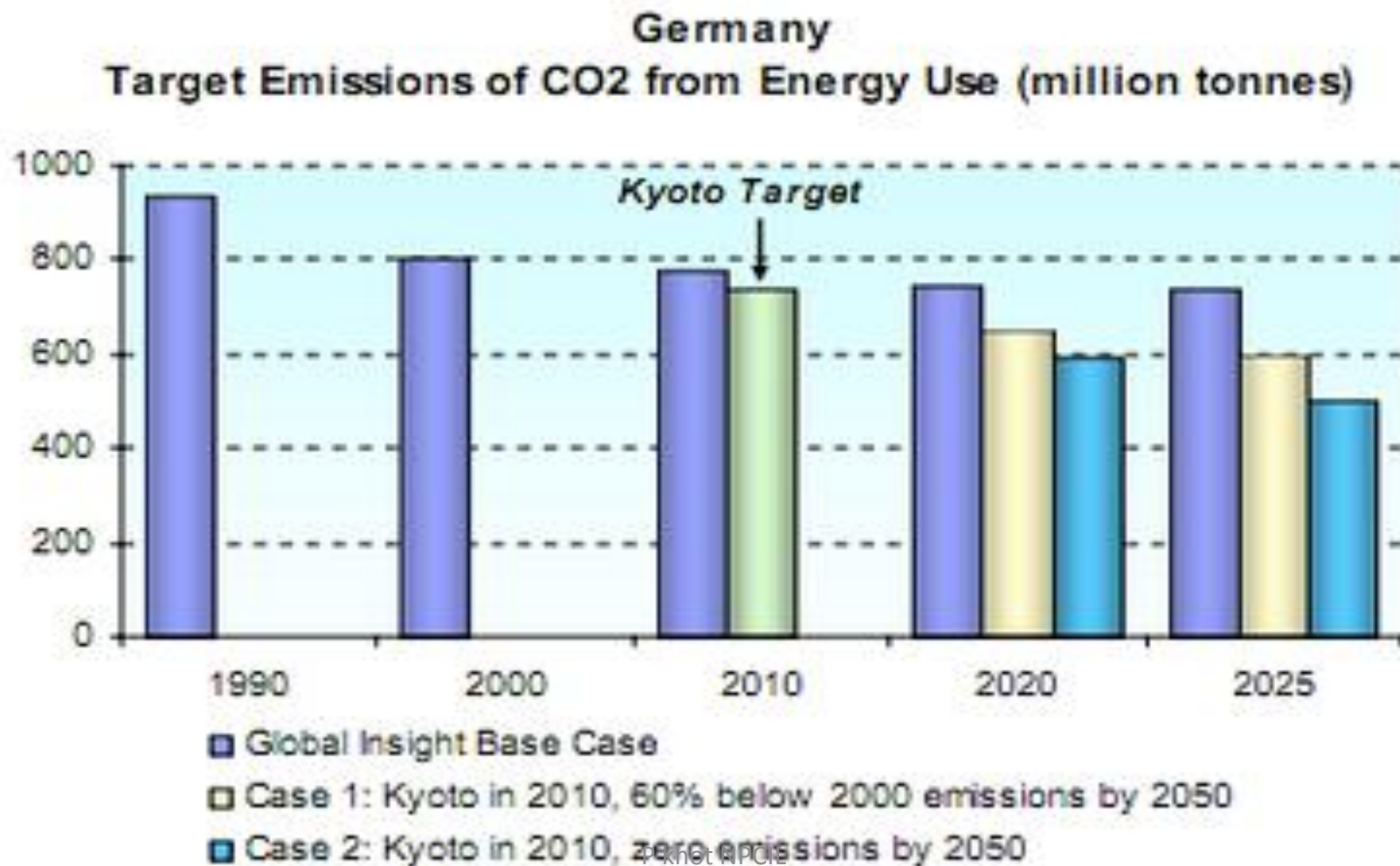
Per capita responsibility of GHG

Per capita greenhouse gas emissions by country in 2000 (including land-use change)



CO2 Emissions & Germany

Exhibit 1.



Wind farms in Germany



Energy subsidies in Germany

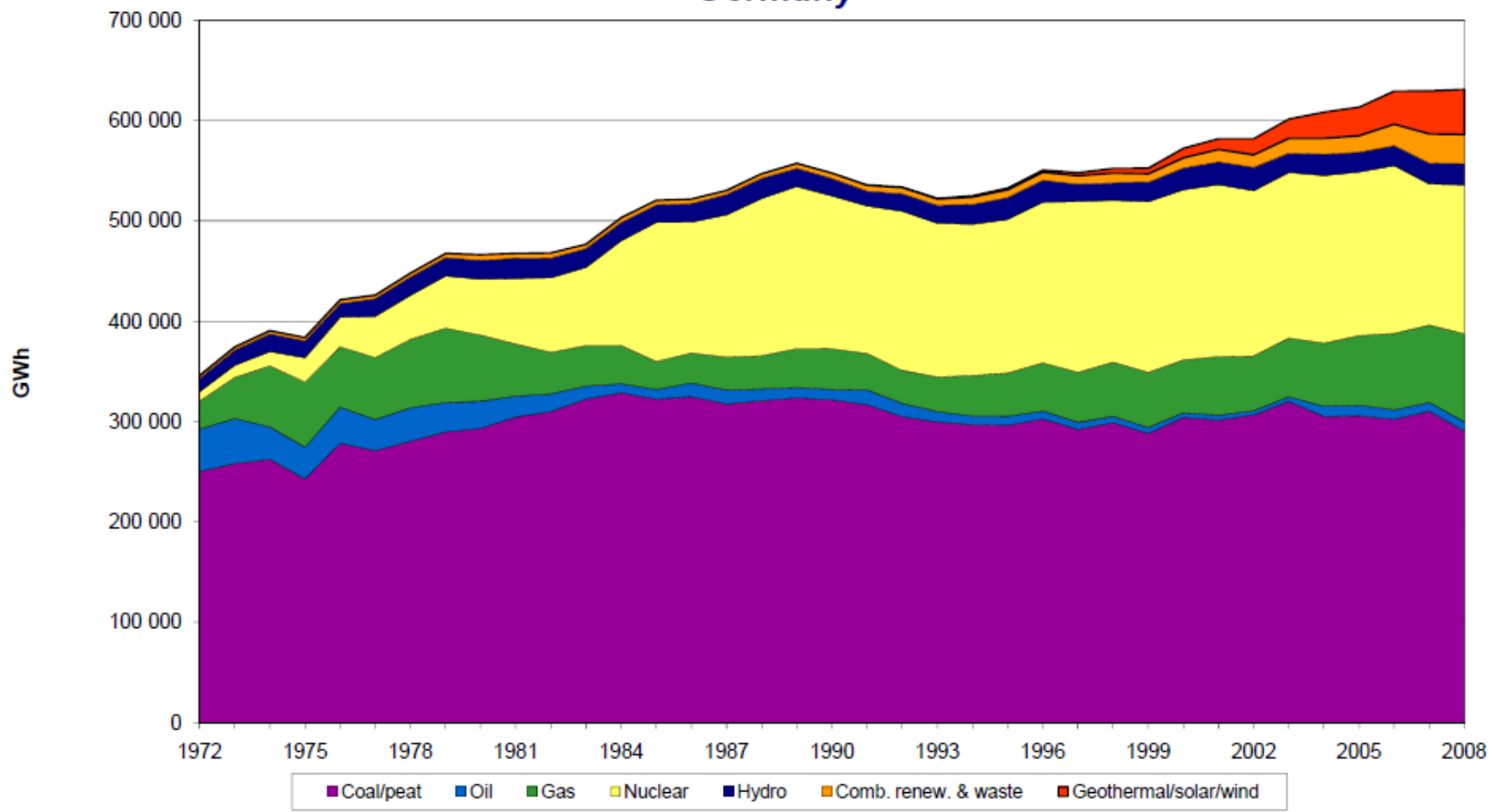
- Total energy subsidy/year -17 Billion Euros
 - Subsidy for Wind
 - On shore -05 Euro Cent/KW hr
 - Off shore -12 Euro Cent/KW hr
 - Subsidy for Solar -28 Euro Cent/KW hr
 - Subsidy for Biomass -17 Euro Cent/KW hr
-
- **Levies and taxes for subsidies**
 - Consumers (Tariff 25 Eu C/KW hr) - 3.5-6 Euro Cent/KW hr
 - Use of Nuclear Fuel - **145 Euro/gm of Uranium**
 - Remaining from Budget

Import-export to & from Germany

- During Yr 2010 Germany was importing electricity from France and Czeck 42000 GWhr
- After shutting down of NPPs after Fukushima event Germany is now importing 85000 GWhr



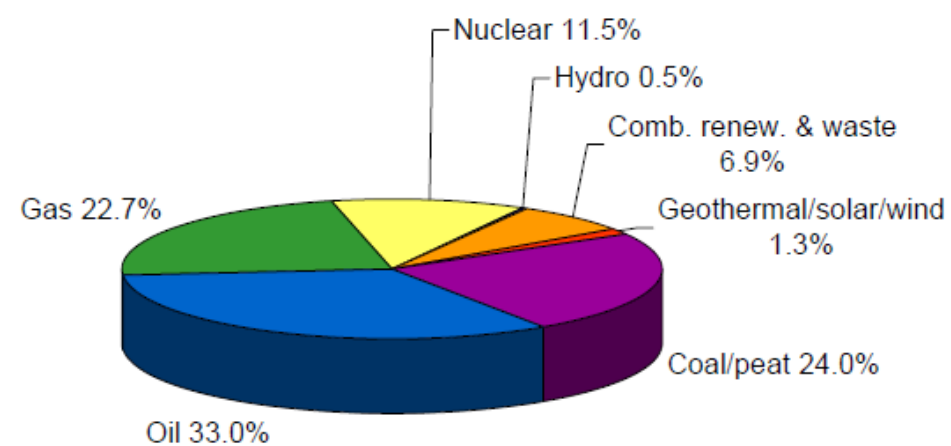
Electricity generation by fuel Germany





Share of total primary energy supply* in 2008

Germany



335 Mtoe

* Share of TPES excludes electricity trade.

Note: For presentational purposes, shares of under 0.1% are not included and consequently the total may not add up to 100%.