

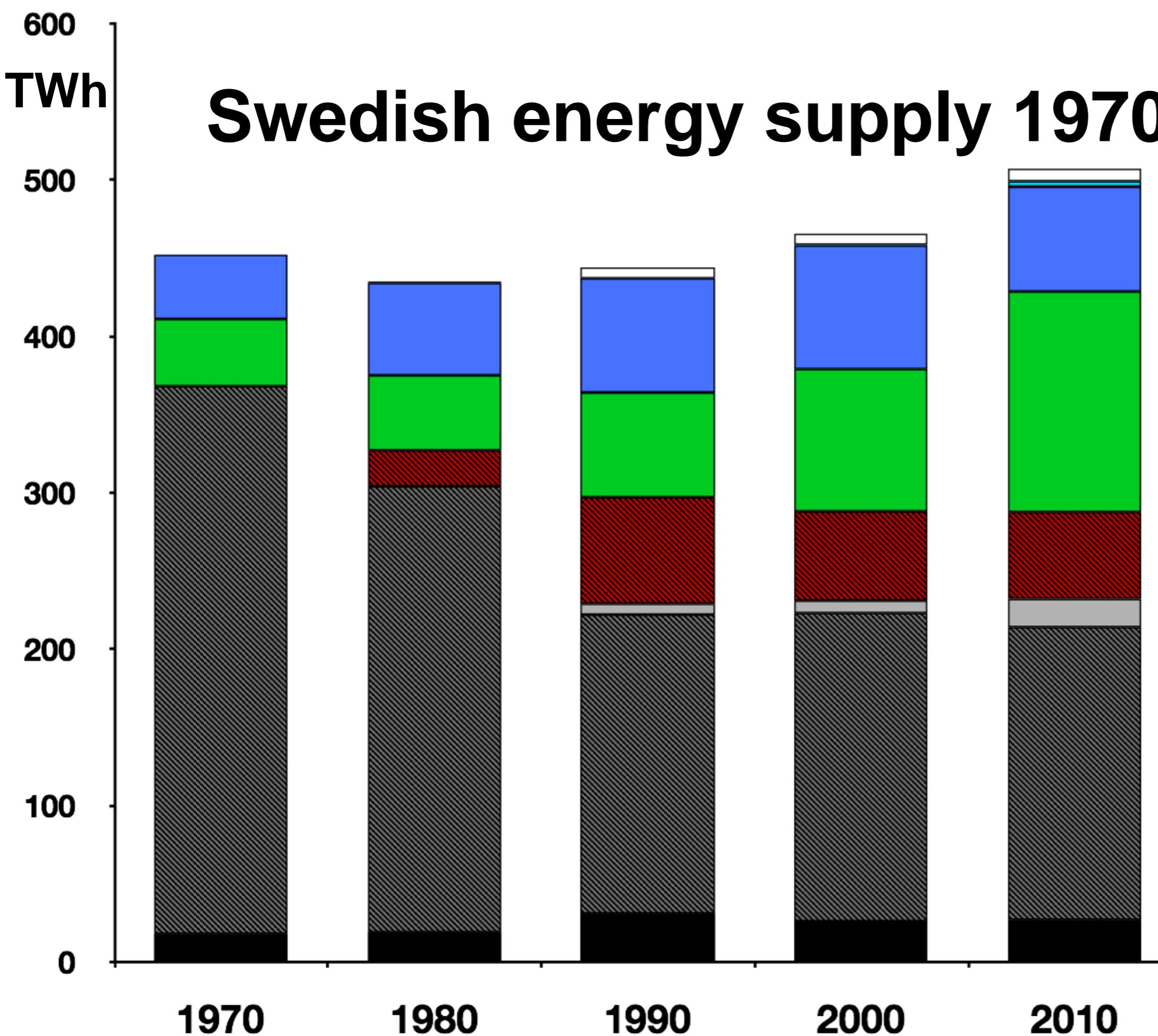
More sustainable energy in Sweden

Tomas Kåberger

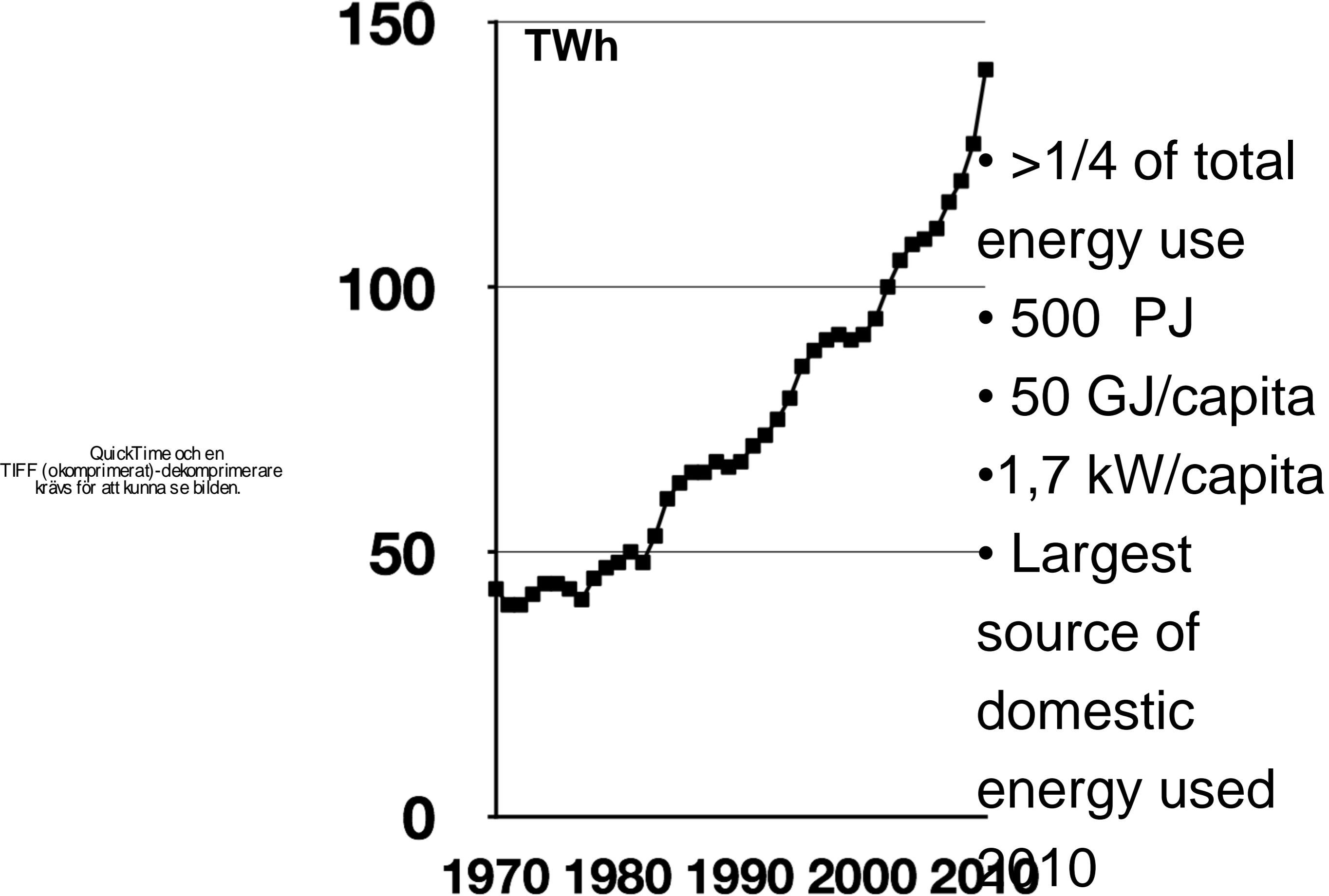
Professor
Former Director General of the Swedish Energy Agency,
Executive board chair of Japan Renewable Energy
Foundation

Sweden and Thailand

- Significant bioenergy use in common
- Significant renewable resources in common
- Different support instruments for renewable electricity
- Different results for wind and solar



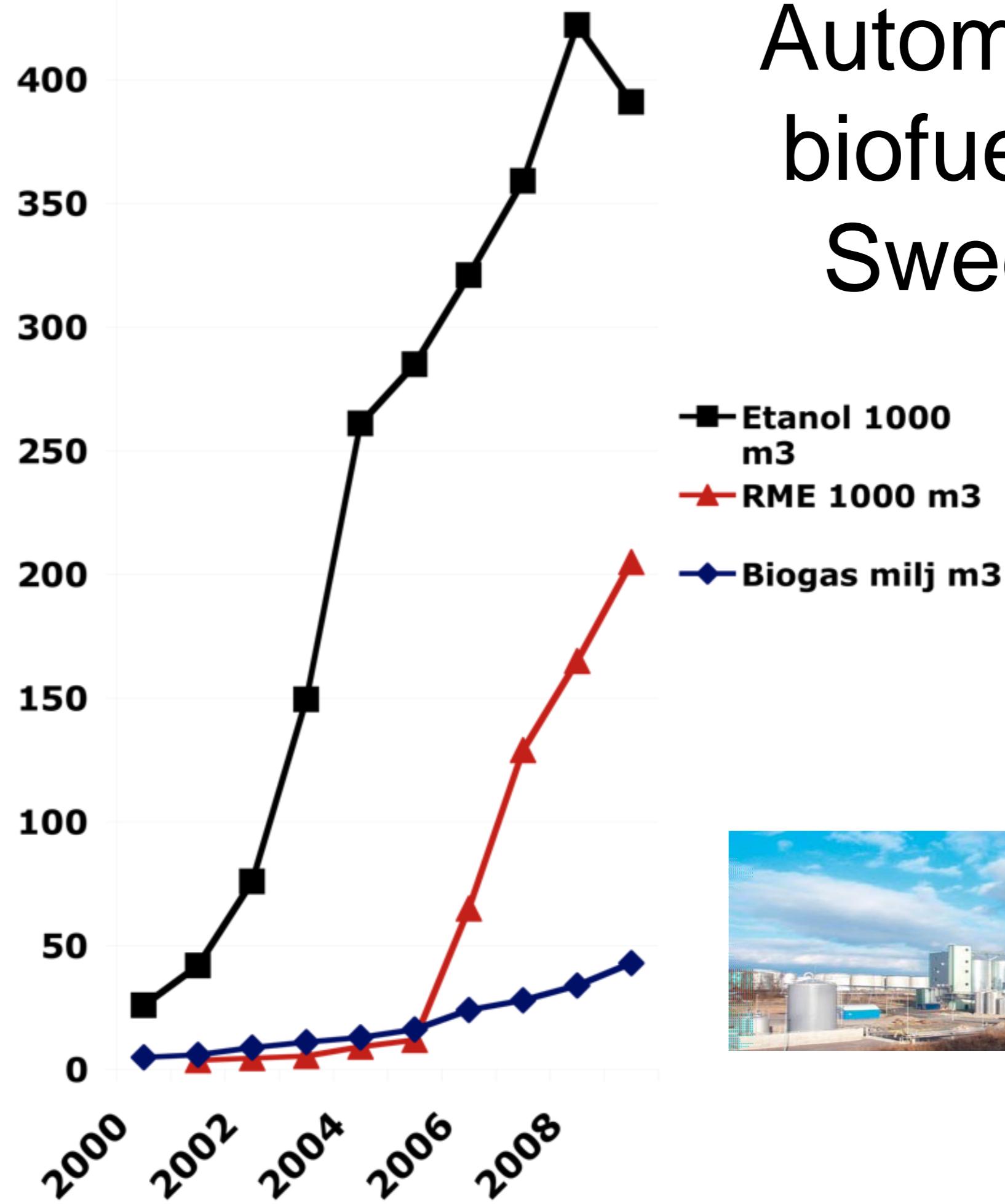
Bioenergy use in Sweden 1970-2010



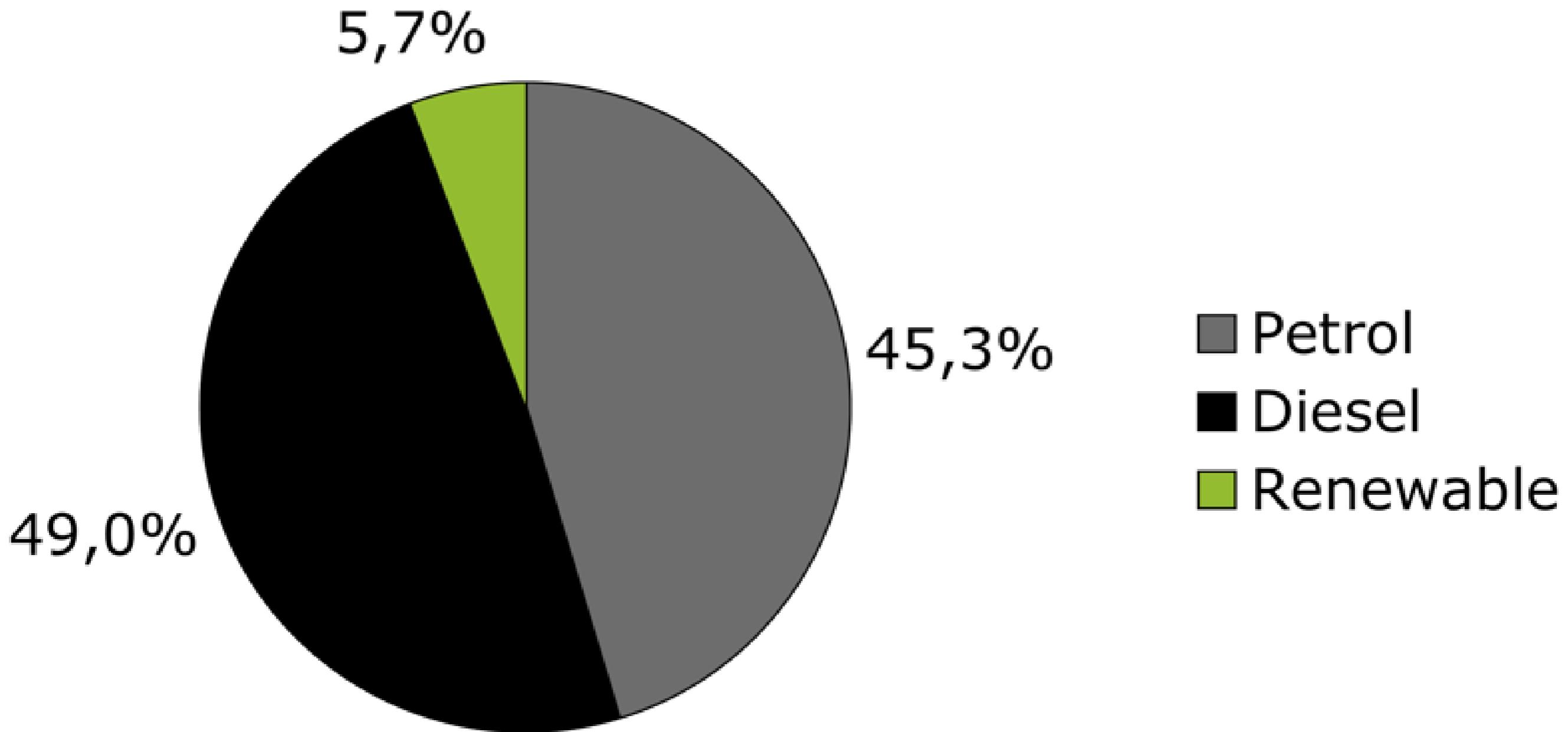
Automotive biofuels in Sweden



2009: 5,3% of
road
transport
energy

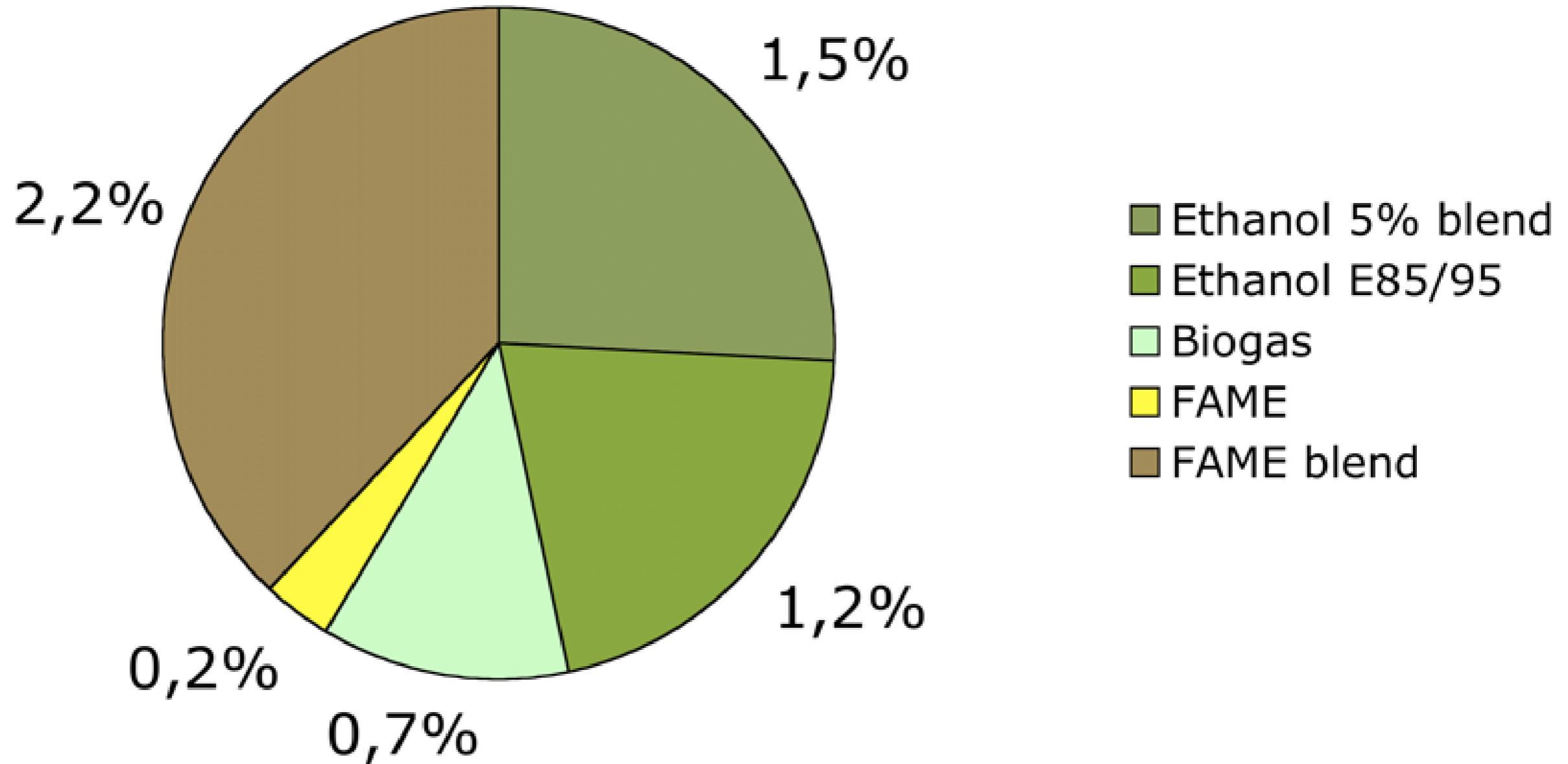


Automotive fuels in Sweden 2010 by energy

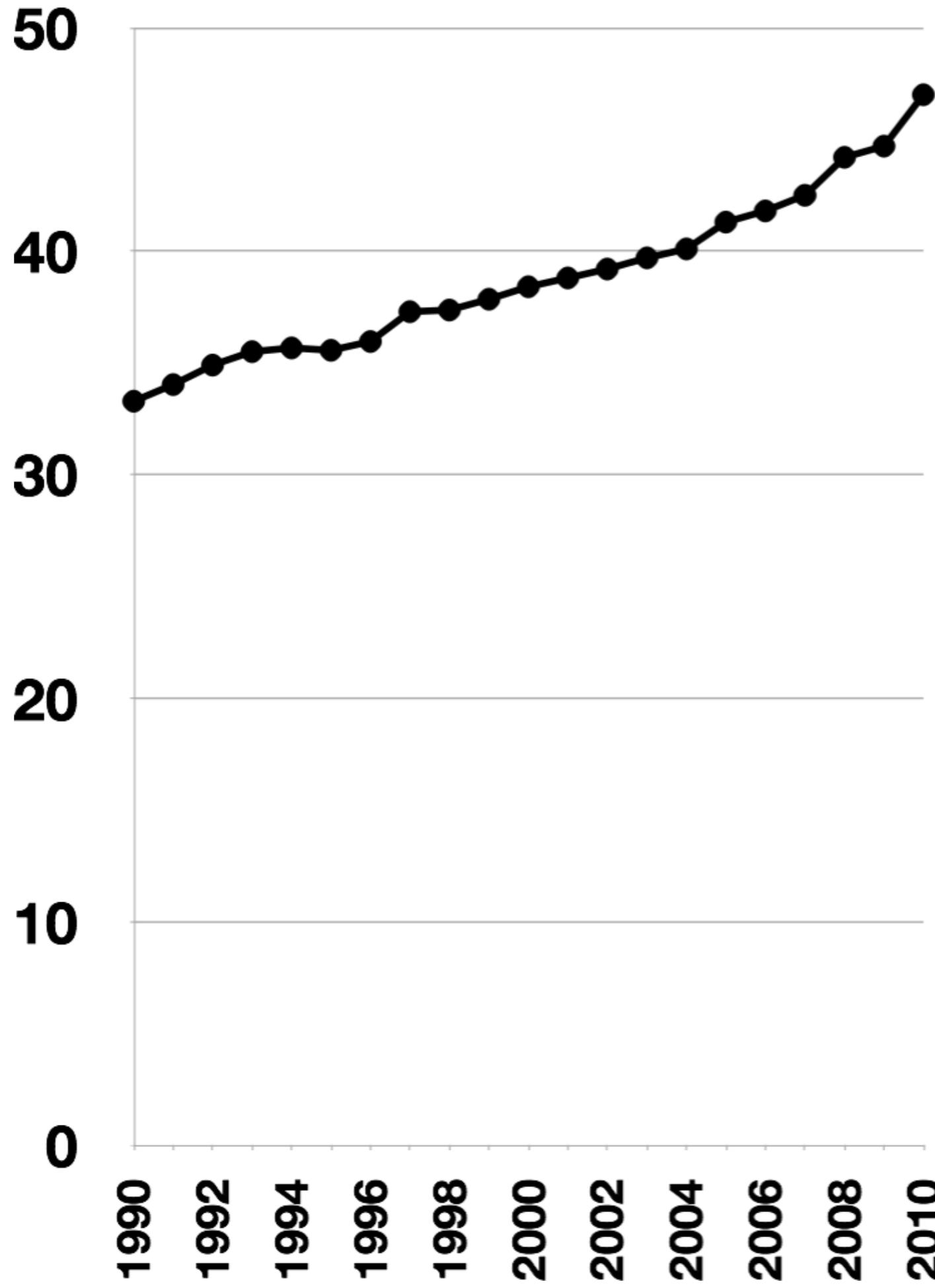


Biofuels in Sweden 2010, % of total automotive fuels

Bensin 45,3% (Petrol)
Diesel 49,0%

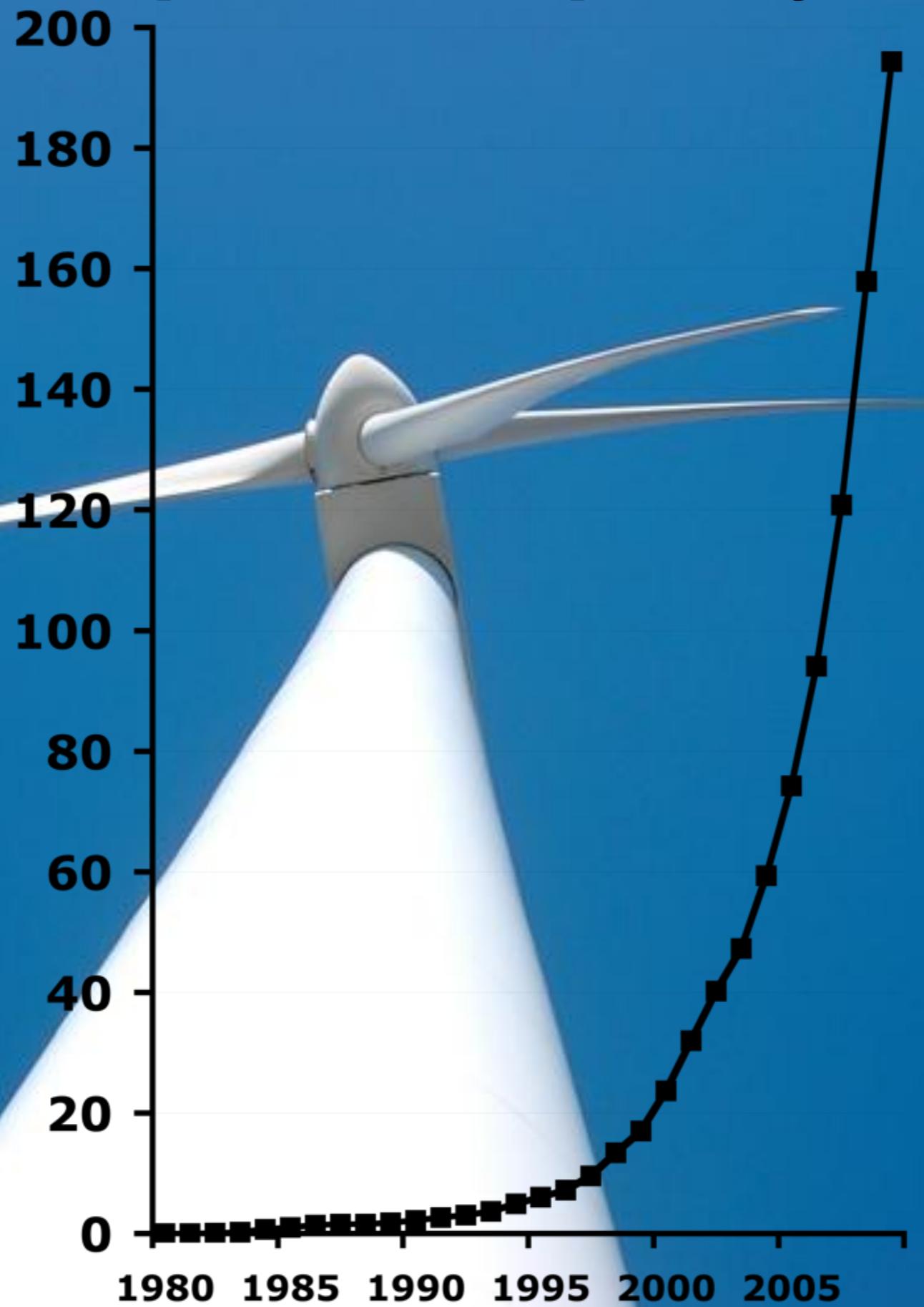


Renewable energy as share of total energy use



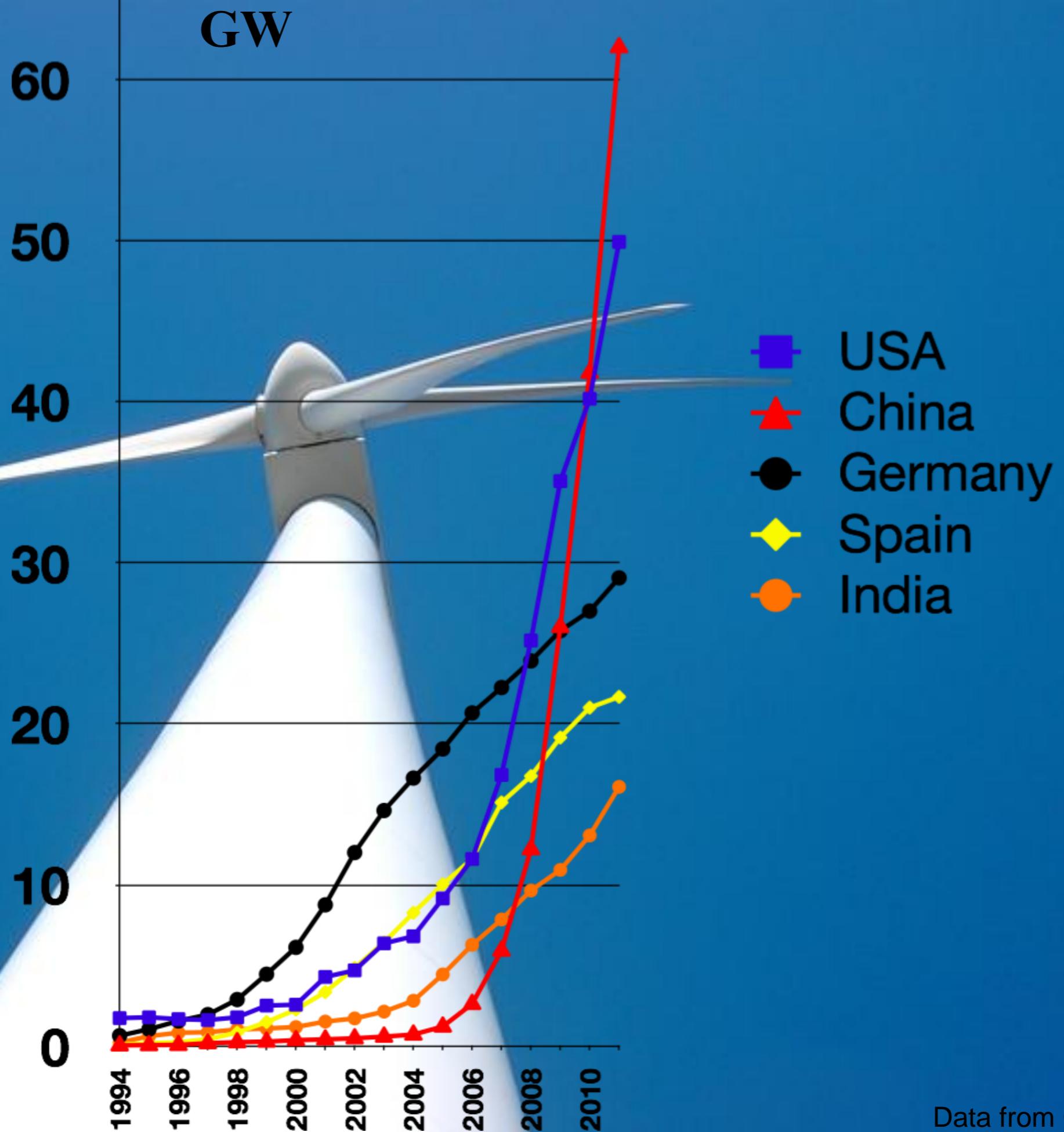
Global Wind power capacity 1980-2010

GW

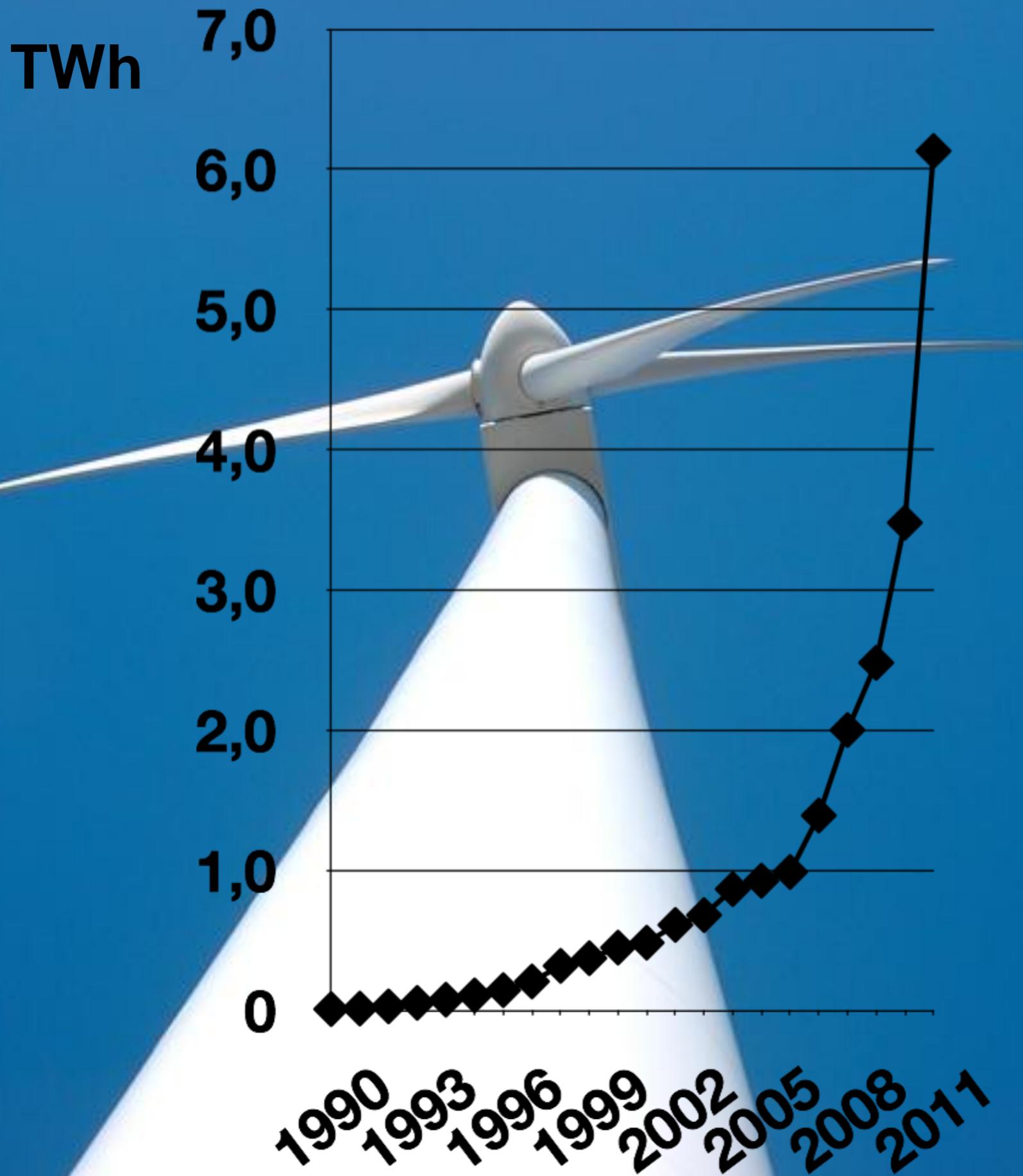


Data from GWEC

Wind power in leading countries



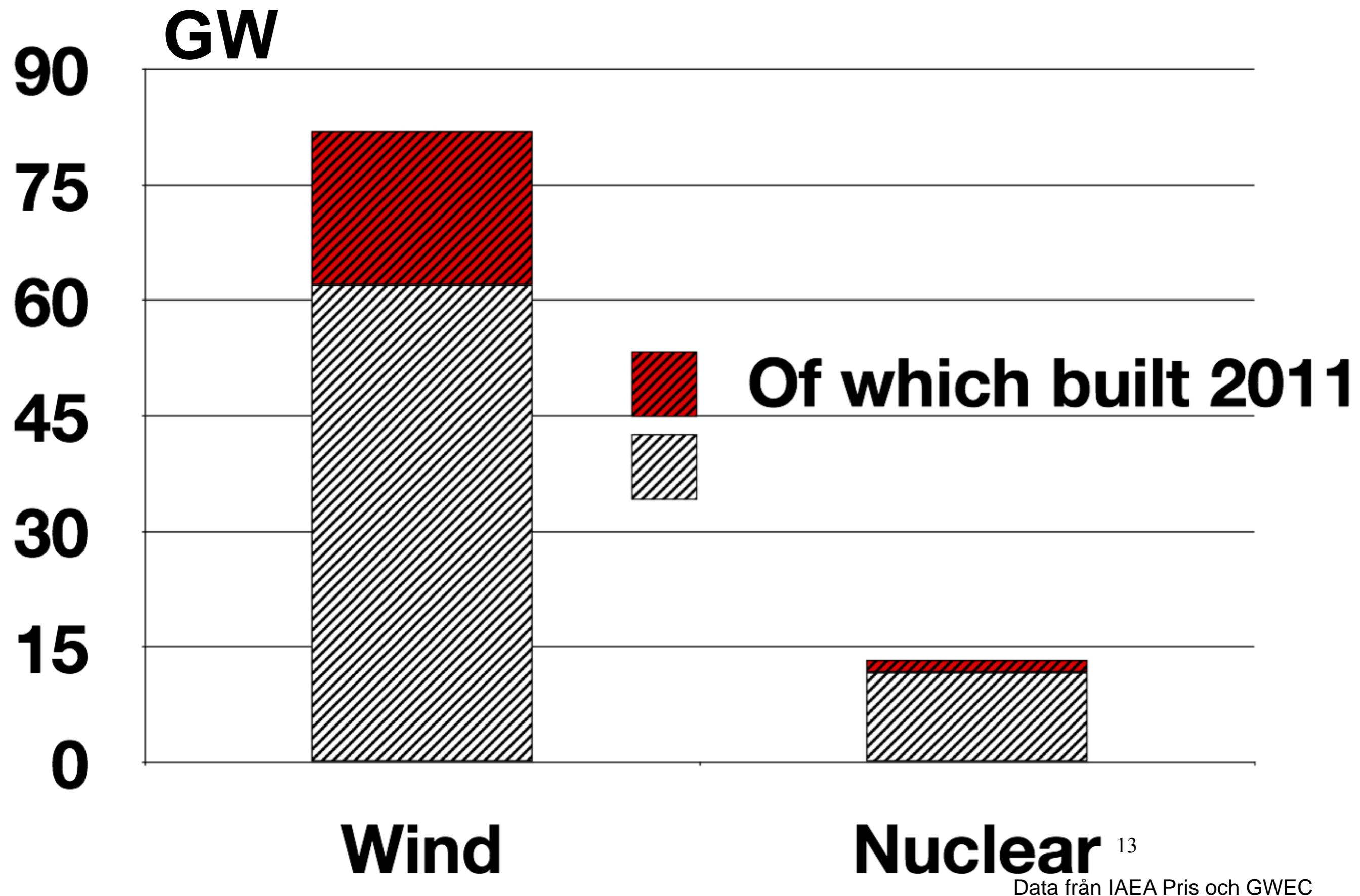
Wind electricity in Sweden



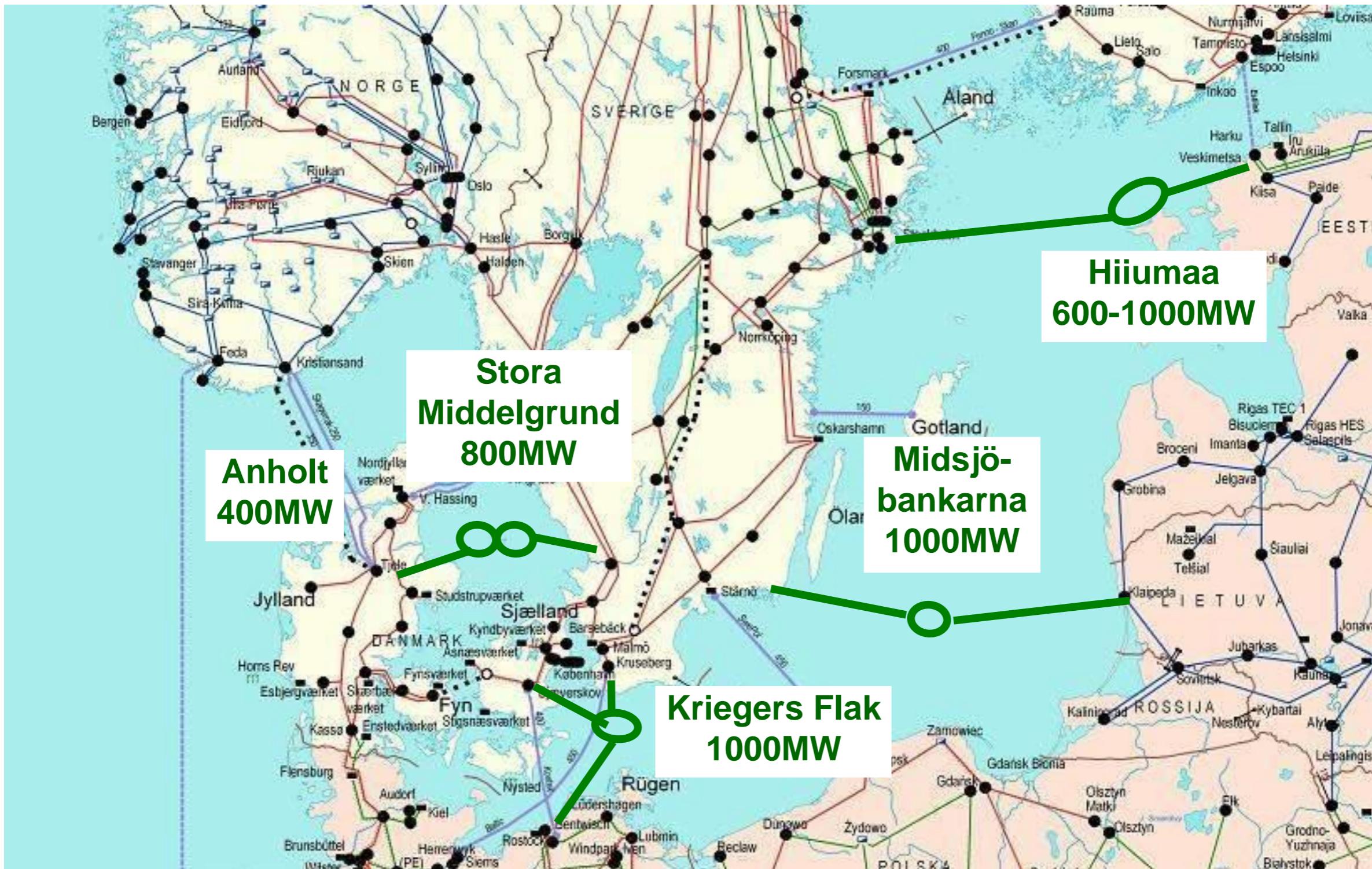
Data from Svensk Energi



Power production capacity in China

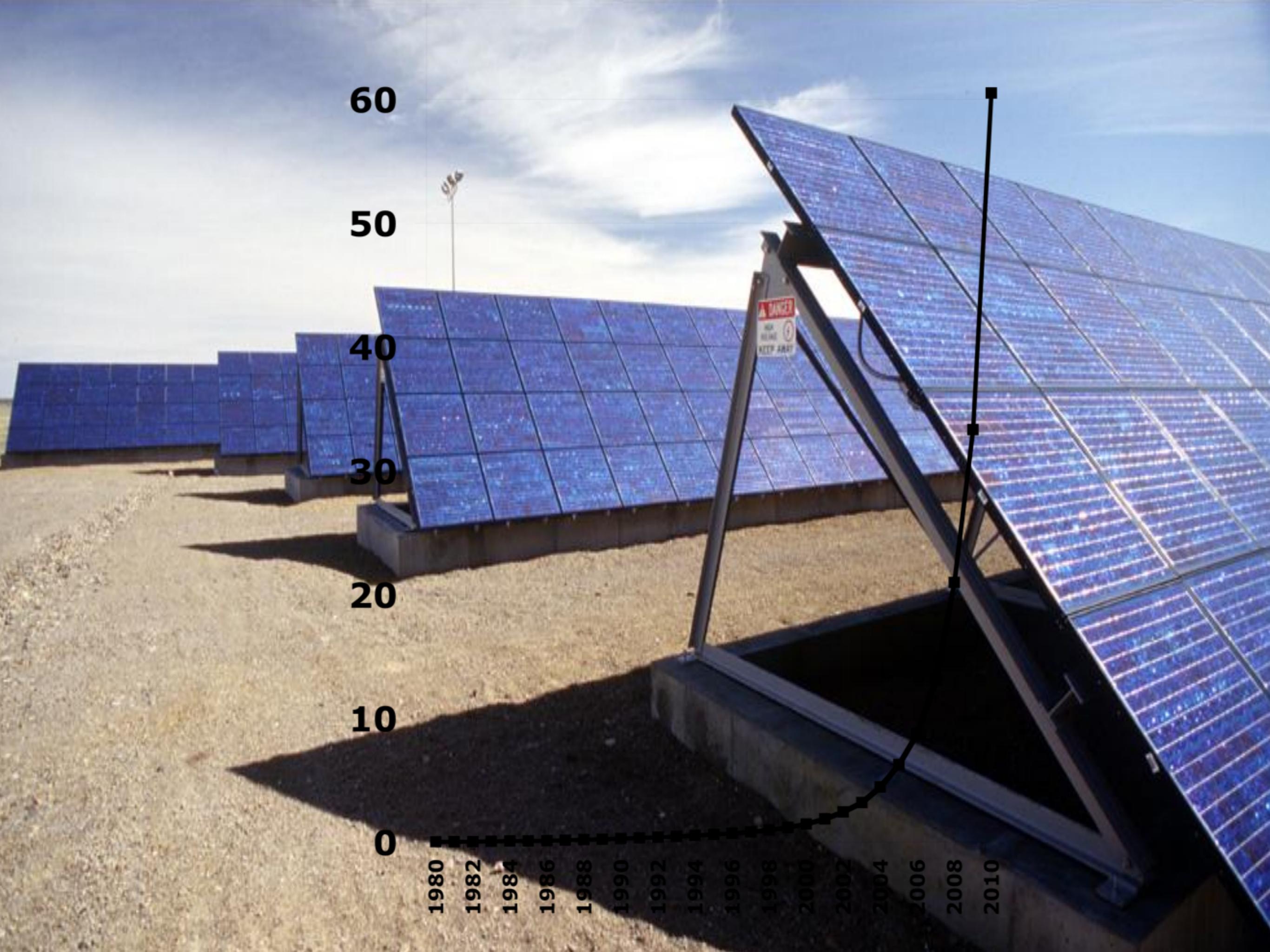


Windresources and sub-sea interconnectors



A transparent electricity market

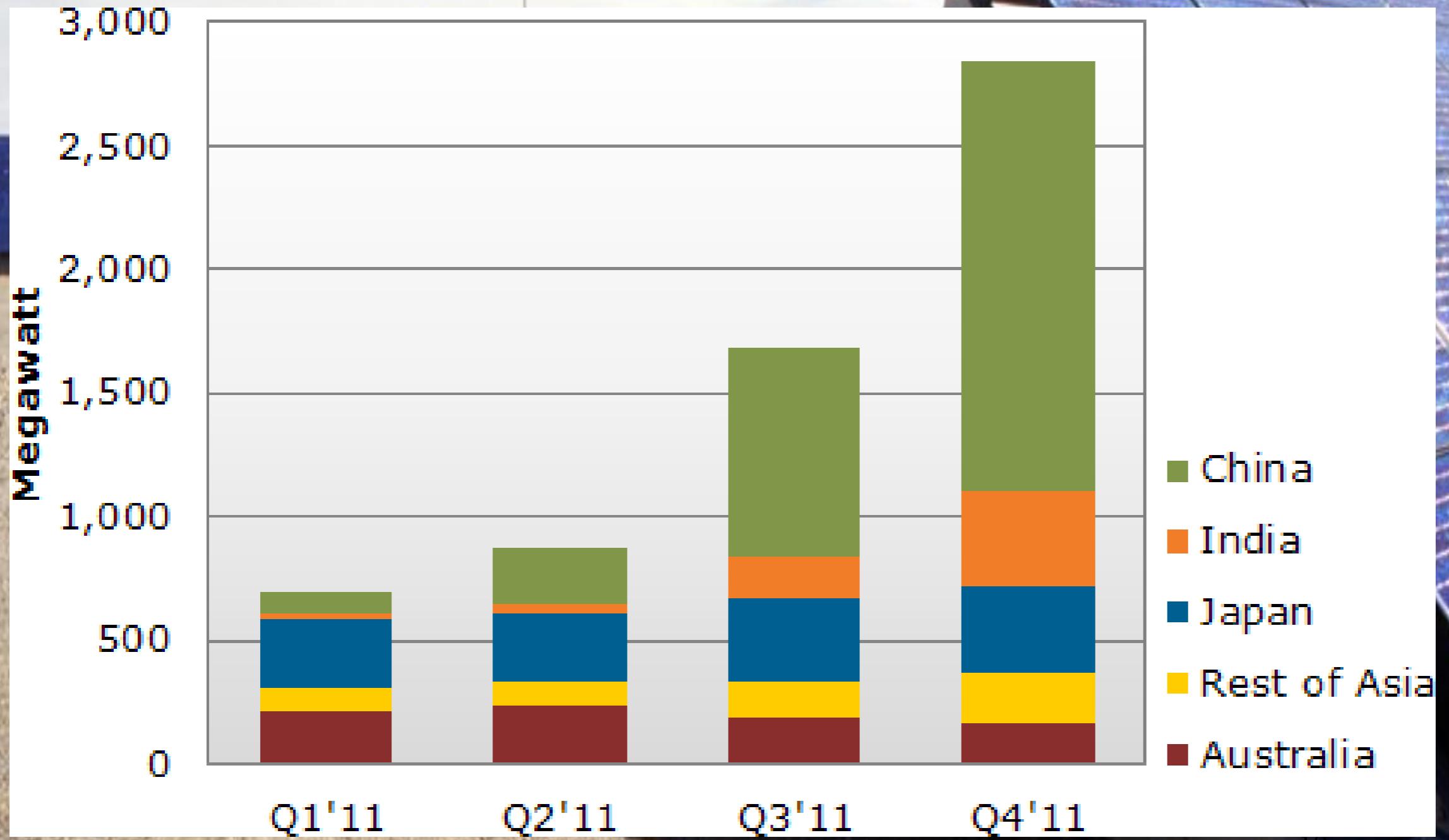
- <http://www.nordpool.no/>
- <http://www.nordpoolspot.com/>
- Certificates
- <http://www.skm.se/priceinfo/>







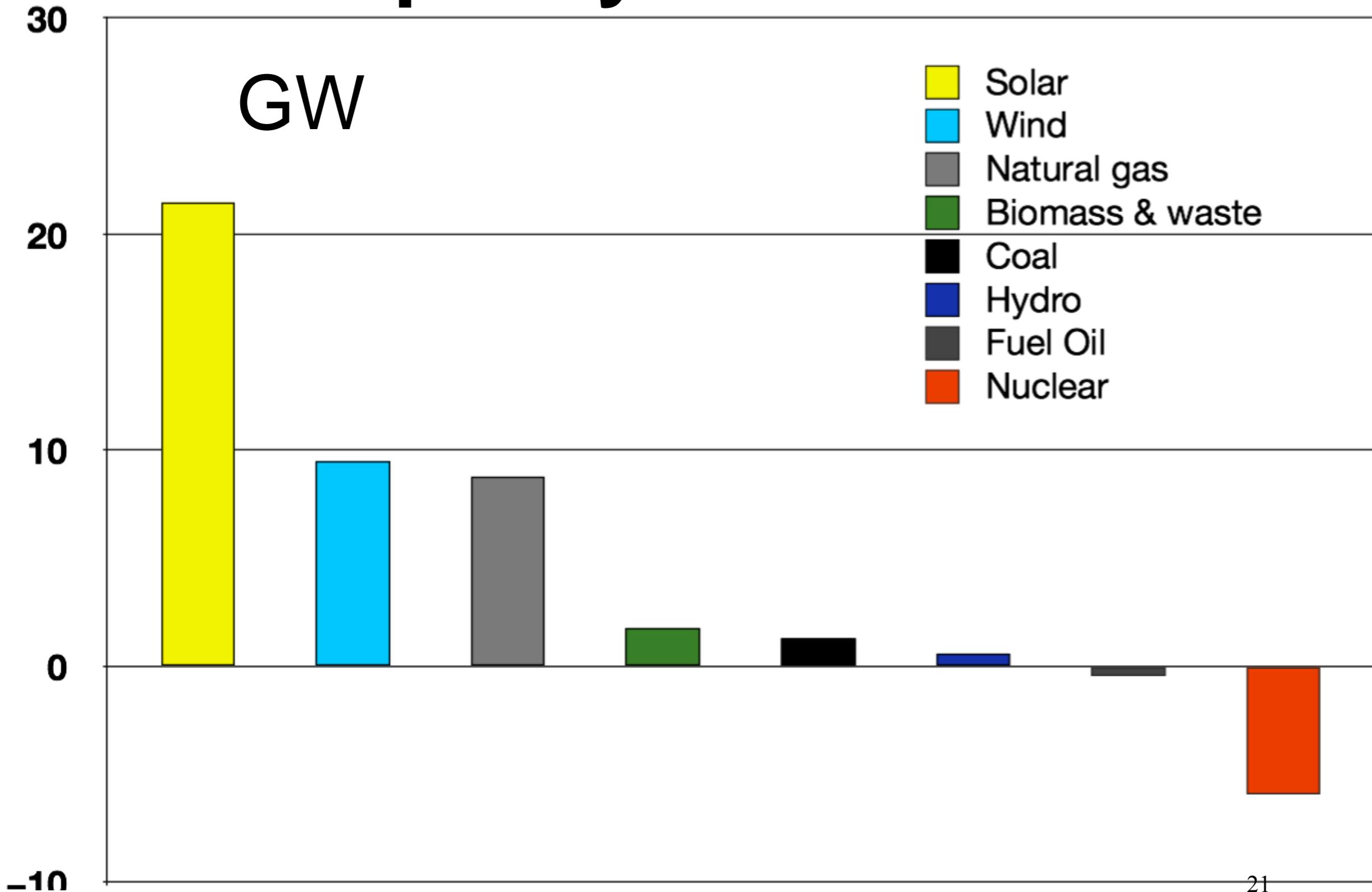
Solar PV Asia Pacific Market Demand by Region (Q1'11-Q4'11)



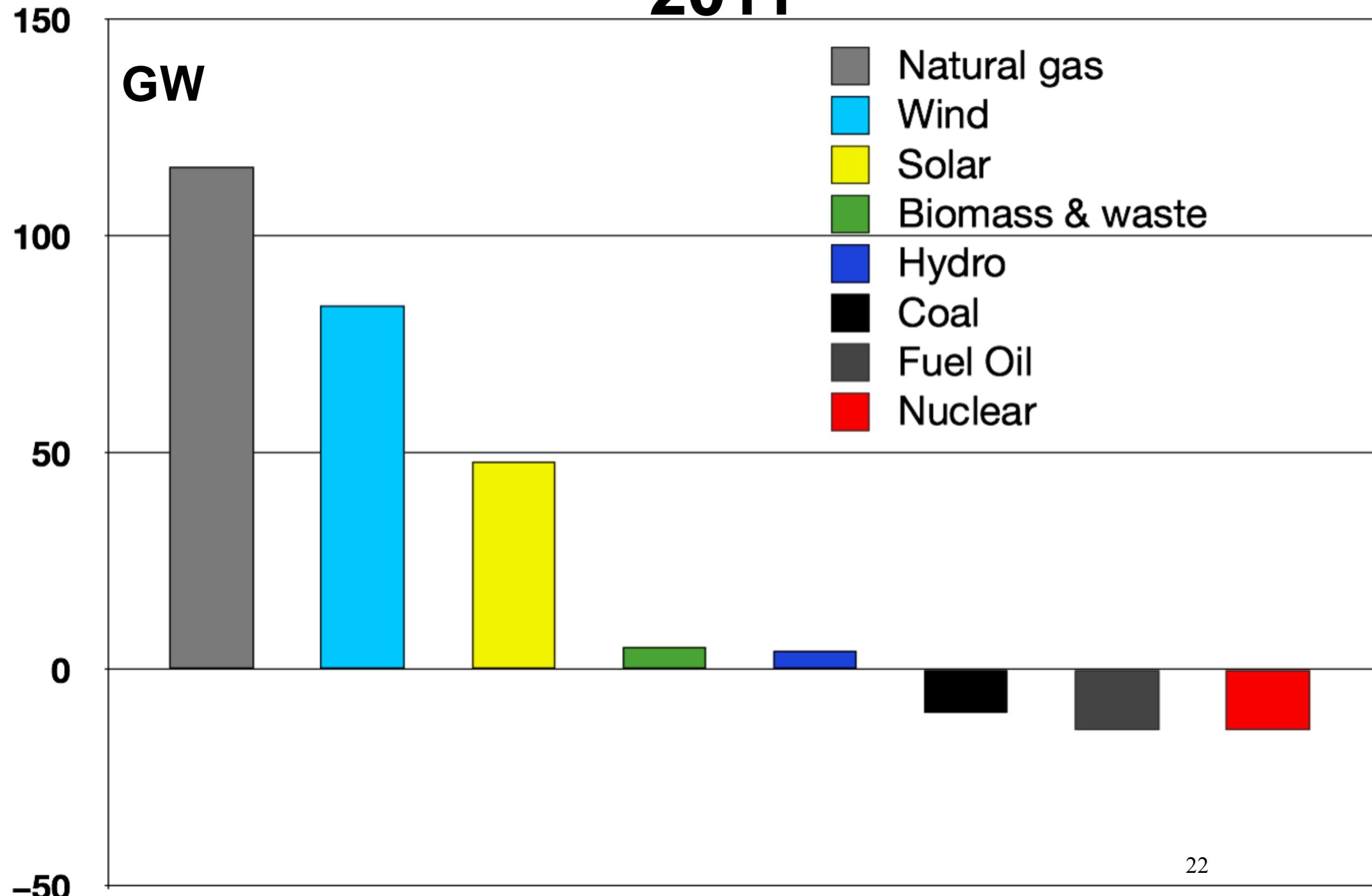
Source: NPD Solarbuzz [Asia Pacific Major PV Markets Quarterly](#) report



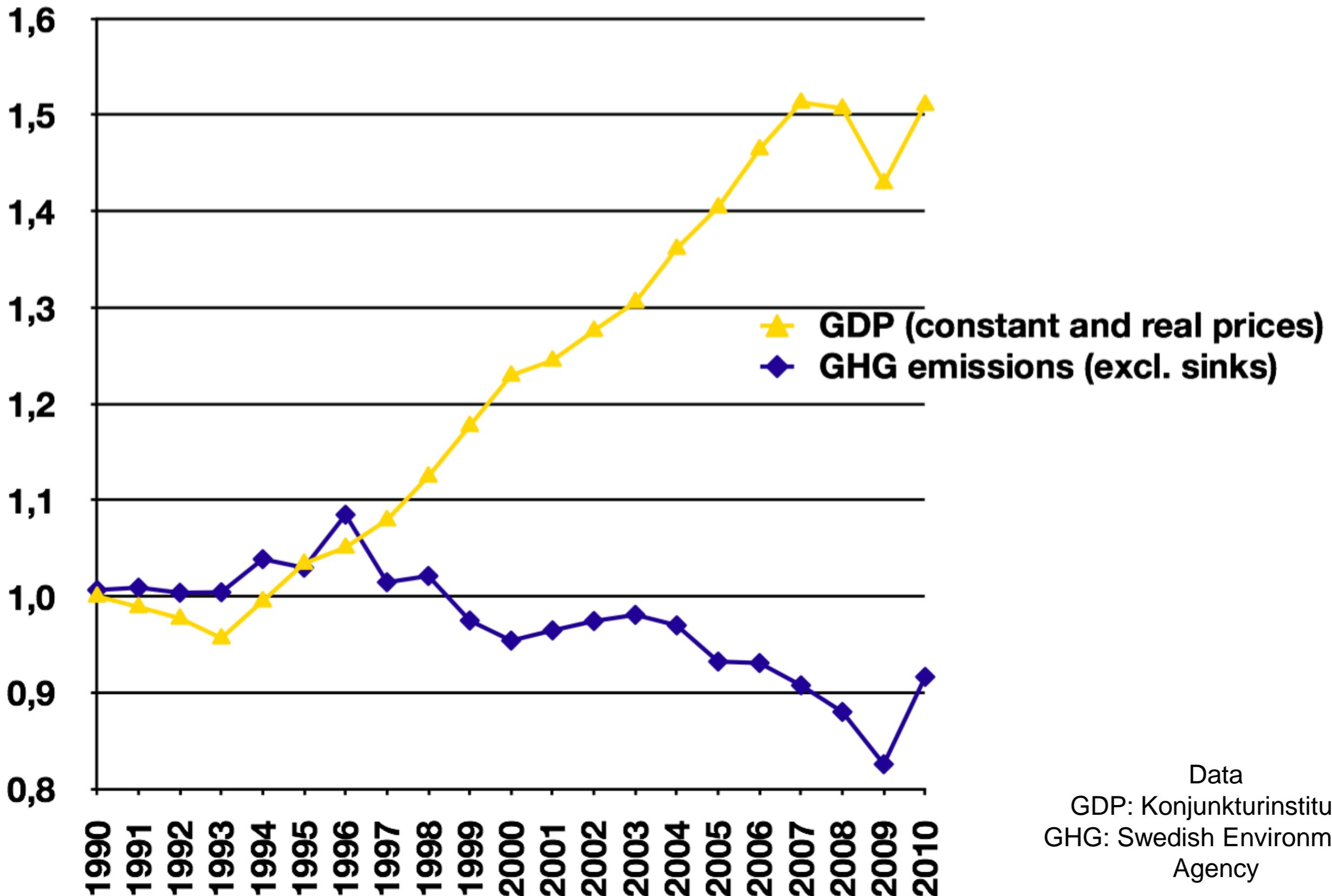
New electricity generation capacity in the EU 2011



New net production capacity in EU 2000-2011



Sweden GDP and GHG emission 1990-2010



Data

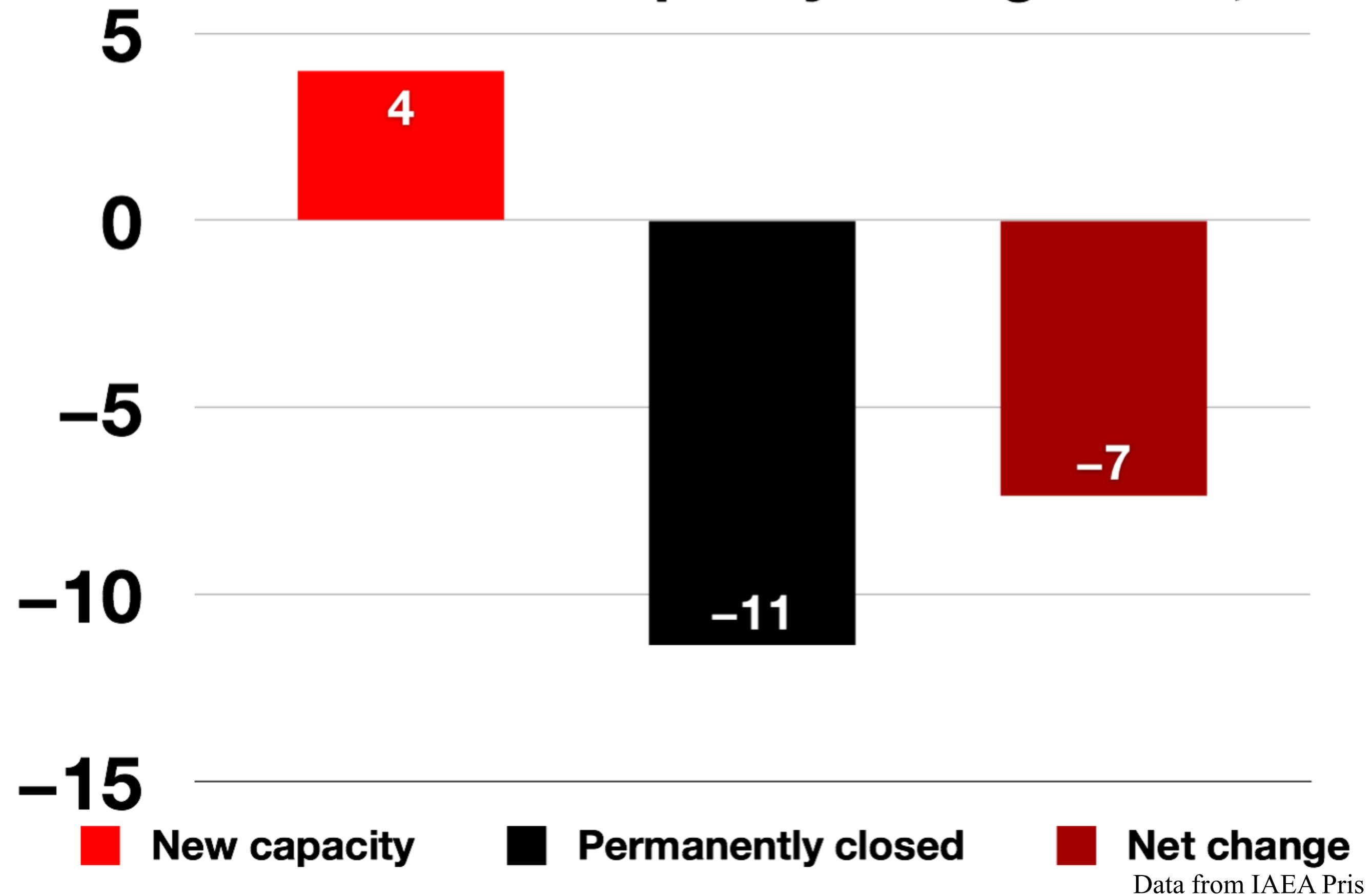
GDP: Konjunkturinstitutet
GHG: Swedish Environmental Agency

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Global nuclear capacity change 2011, GW



Global new, gross capacity, GW

