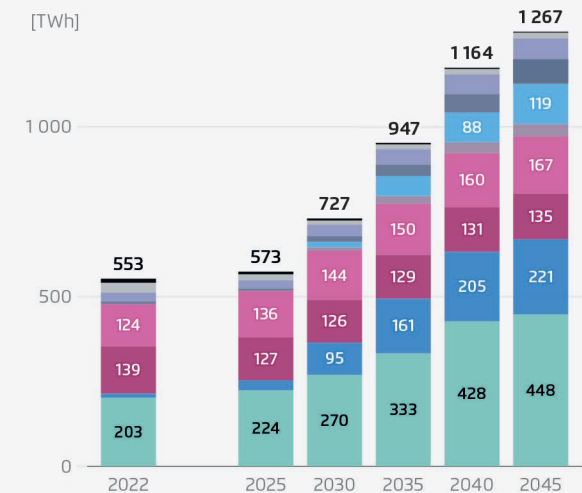






Electricity demand by sector

→ Fig. 11



- Industry
- Transport
- Private Households
- Commerce, trade, services
- Electrolysis (H₂)
- DAC
- Grid losses
- Power plants own use
- District heating
- Charging storage
- Other conversion

	2030	2045
	Production 11 TWh H ₂ (electrolysis)	84 TWh H ₂ 2.5 million t CO ₂ DAC
	6.0 million heat pumps, efficient lighting, efficient devices and processes	Over 60% of apartments and 55% of non-residential buildings heated with heat pumps, efficient devices and processes
	13 million BEVs and 2 million PHEVs, one-third of truck mileage running on electricity	Almost complete electrification of passenger-car and truck transport
	Electrification of process heat (< 500°C), efficient cross-cutting technologies	Electrification of process heat, electricity for CO ₂ capture, battery cell production

Agora Energiewende, Prognos, Öko-Institut, Wuppertal Institute and Kassel University (2024). H₂ = hydrogen; DAC = Direct Air Capture; BEV = Battery Electric Vehicles; PHEV = Plug-in Hybrid Electricity Vehicles; Storage use (gross) includes pump storage and stationary battery storage in public supply. Electricity use of household batteries combined with PV systems not included here.