



- Industry
- Electrolysis (H₂)
- Transport
- CCS
- ITS
- Charge storage
- HH
- Grid losses
- District heat generation
- PP on-site consumption
- Other converted energy

H₂/CO₂

2030

Production 19 TWh H₂

2050

84 TWh H₂,
19 Mt CO₂ DAC



5.6 million heat pumps, efficient electric appliances, efficient lighting, decline of direct electric heaters

13.8 million heat pumps, increasing for cooling and ventilation, efficiency with heat pumps, decline of direct electric heaters, efficiency with electric appliances



Heat pumps, efficient lighting

Heat pumps, efficient lighting



27% of road freight km via trucks powered by batteries and overhead lines, 14 M electric cars

78% of road freight km via trucks powered by batteries and overhead lines, 30 M electric cars



Electrification of process heat, electricity-based steam production, efficient cross-cutting technologies

Electrification of process heat, CO₂ capture, steam production in electric boilers and high-temperature heat pumps

H₂ = hydrogen. PP = power plant. DAC = direct air capture. HH = households. ITS = industry, trade and services. Gross storage use comprises pump storage and stationary battery storage in the public supply. The figure does not consider the electricity consumption of household batteries combined with PV installations.