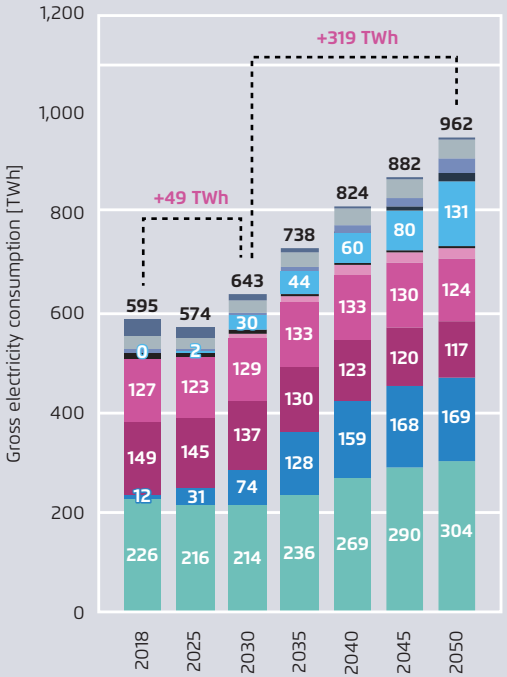

	2030	2050
H_2/CO_2	Production 19 TWh H_2	84 TWh H_2, 19 Mt CO_2 DAC
	6 million heat pumps, efficient electric appliances, efficient lighting, decline of direct electric heaters	14 million heat pumps, increasing for cooling and ventilation, efficiency with heat pumps, decline of direct electric heaters, 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, CO_2 capture, steam production in electric boilers and high-temperature heat pumps

Industry
Transport
ITS
HH
District heat generation
Other converted energy
Electrolysis (H_2)
CCS
Charge storage
Grid losses
PP on-site consumption

H_2 = 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.
Prognos, Öko-Institut, Wuppertal Institut (2020)