



**Energy sector**

Coal phase-out in 2030, 70 % renewable electricity generation, decarbonised district heating, deployment of H<sub>2</sub>



**Transport**

14 million electric cars, 30 % of road freight kilometres electric, more public transport, walking, cycling and rail



**Industry**

Introduction of DRI, coal phase-out, deployment of H<sub>2</sub> for steam



**Buildings**

Green retrofit rate 1.6 % per year, 6 million heat pumps, faster expansion of district heating



**Agriculture**

Reduction of fertiliser use, reduction of livestock, fermentation of manure



**Waste**



**Industry**

H<sub>2</sub> and biomass for high-temperature heat, H<sub>2</sub> for steel, chemical recycling, CCS for process emissions



**Energy sector**

100 % renewable electricity generation\*, replacement of fossil fuels with H<sub>2</sub>, CO<sub>2</sub>-free district heating generation



**Transport**

Electrification of passenger transport, CO<sub>2</sub>-free freight transport, further expansion of public transport



**Buildings**

90 % of living spaces in 2050 have received a green retrofit or have been newly built with efficiency in mind, complete shift to climate neutral heat production



**Agriculture**

Reduction of fertilisers, reduction of livestock, fermentation of manure



**Waste**



**Negative Emissions**

BECCS, DACCS and green polymers offset residual emissions

**-100%**



H<sub>2</sub> = hydrogen  
 \* Includes electricity generation from renewable hydrogen, and from stored and imported renewable electricity.  
 Prognos, Öko-Institut, Wuppertal Institut (2020)