

INDUSTRY

Indicators for energy use in the Industry sector

ACTIVITY

2015

REmap Case 2050

2 872 Mt/yr

Iron and steel

3 608 Mt/yr

7 237 Mt/yr

Cement

8 889 Mt/yr

612 Mt/yr

Chemical and petro-chemical

1 079 Mt/yr

167 Mt/yr

Aluminium

269 Mt/yr

688 Mt/yr

Pulp and paper

822 Mt/yr



RENEWABLE ENERGY AND ELECTRIFICATION SHARES



14%

Renewable share in energy use in industry

63%

Renewable share in energy use in industry

27%

Electricity share in final energy use in industry

42%

Electricity share in final energy use in industry

RENEWABLE ENERGY INDICATORS



BIOMASS

8 EJ/yr

Biomass heat

20.2 EJ/yr

0.8 EJ/yr

Biomass feedstocks

10.5 EJ/yr



SOLAR THERMAL

0.1 GWth

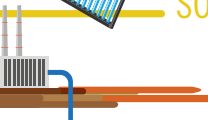
Concentrated solar thermal

134 GWth

1 million m²

Collector area

3 450 million m²



GEO THERMAL

0.02 EJ/yr

Heat

4.11 EJ/yr



HEAT PUMPS

0.2 million units

Heat Pumps

80 million units

ENERGY RELATED CO₂ EMISSIONS*

9.5 Gt CO₂/yr

5.1 Gt CO₂/yr

Avoided CO₂ emissions in 2050 compared to Reference Case: 6.7 Gt CO₂/yr

INVESTMENT

Total investments for decarbonisation for the period 2015-2050

5.0 USD trillion



STRANDED ASSETS

for the period 2015-2050

Delayed Policy Action

0.75 USD trillion

REmap Case 2050

0.23 USD trillion

* Includes process emissions