



Session II: Needs and Potentials of the Industrial Decarbonisation

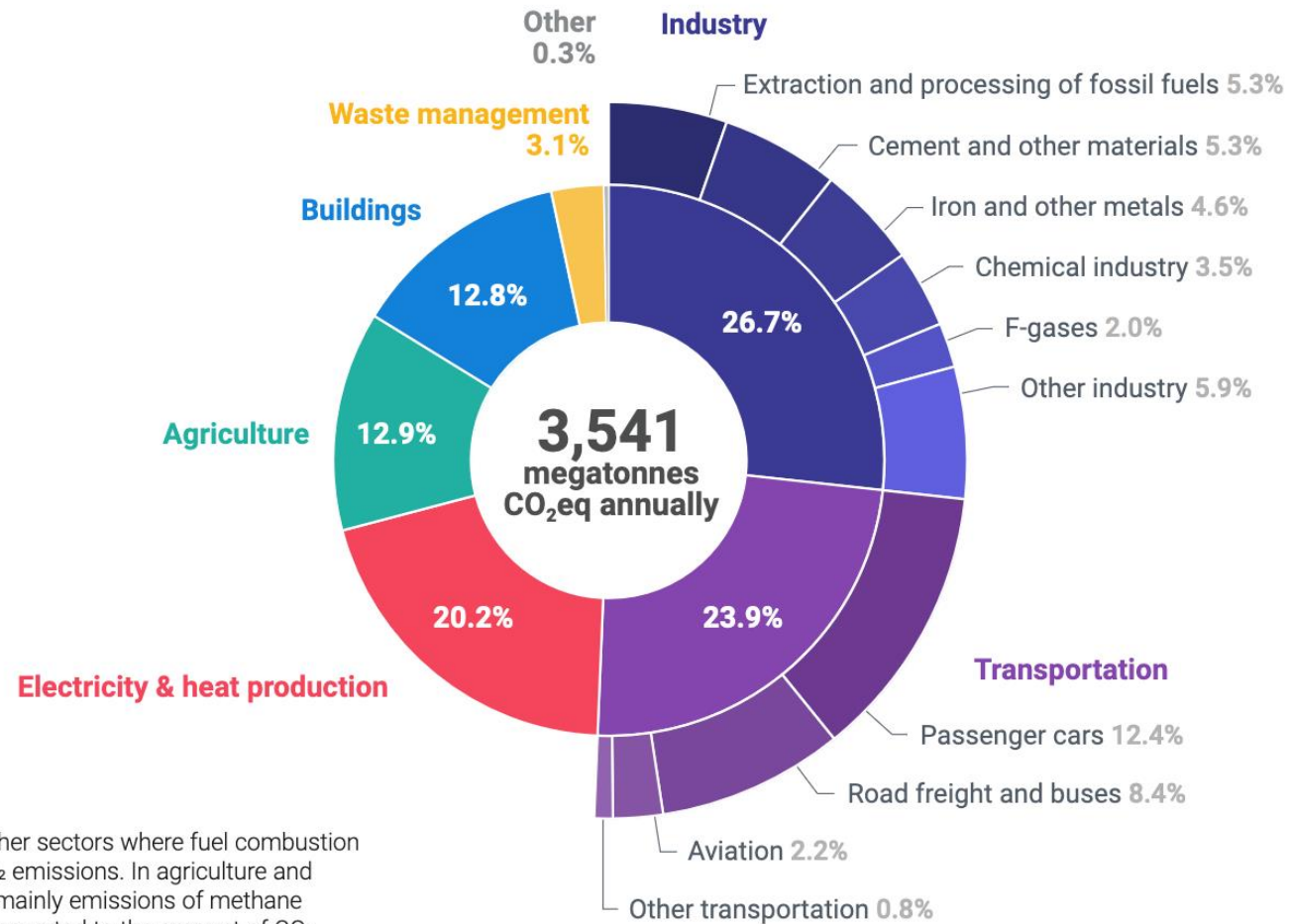
14 May 2024



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GREENHOUSE GAS EMISSIONS IN EU BY SECTORS

Total greenhouse gas emissions in the European Union in 2021.



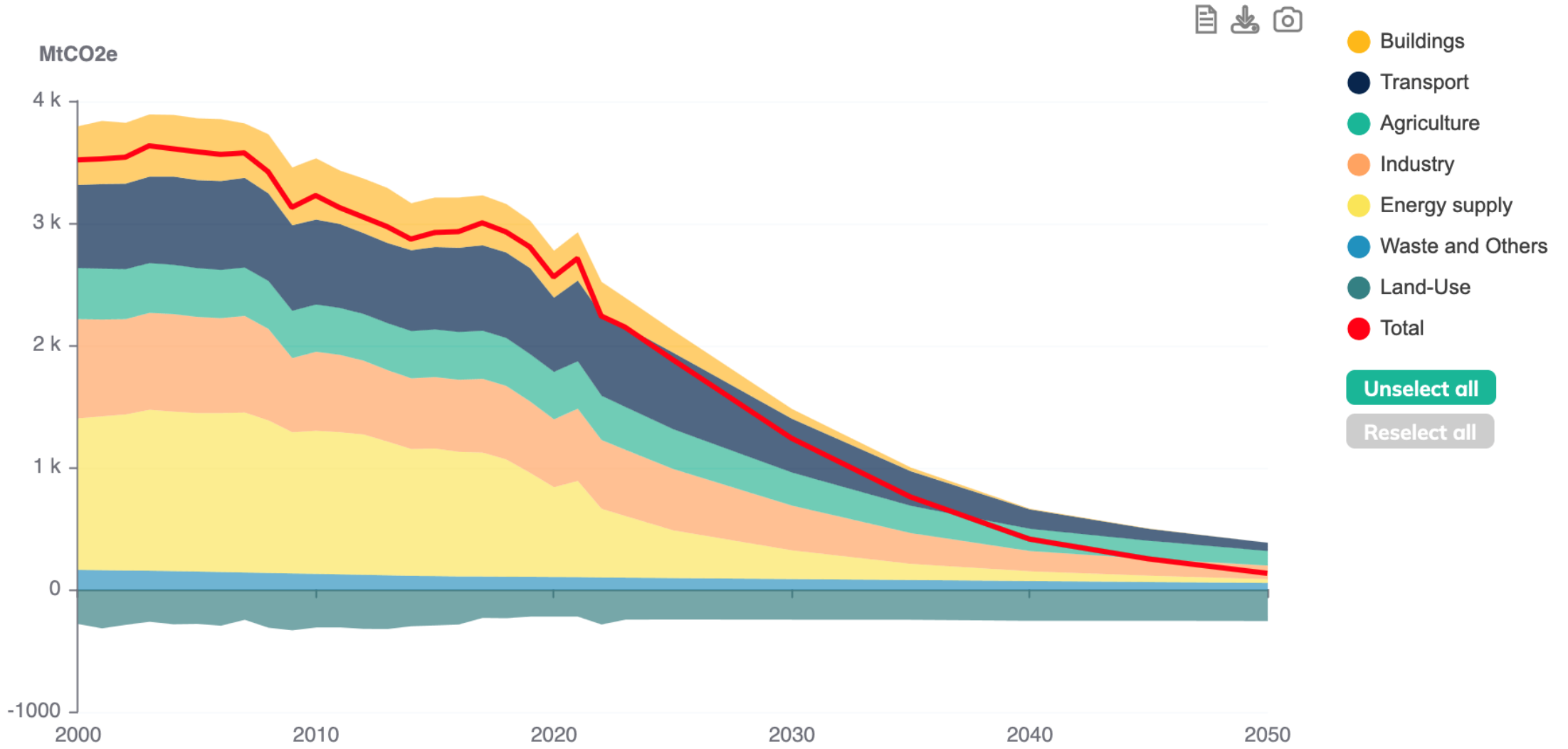
What does CO₂eq mean?

In energy, transportation and other sectors where fuel combustion is essential, these are direct CO₂ emissions. In agriculture and waste management, these are mainly emissions of methane (CH₄) and nitrous oxide (N₂O) converted to the amount of CO₂ emissions, which would have the same warming effect.

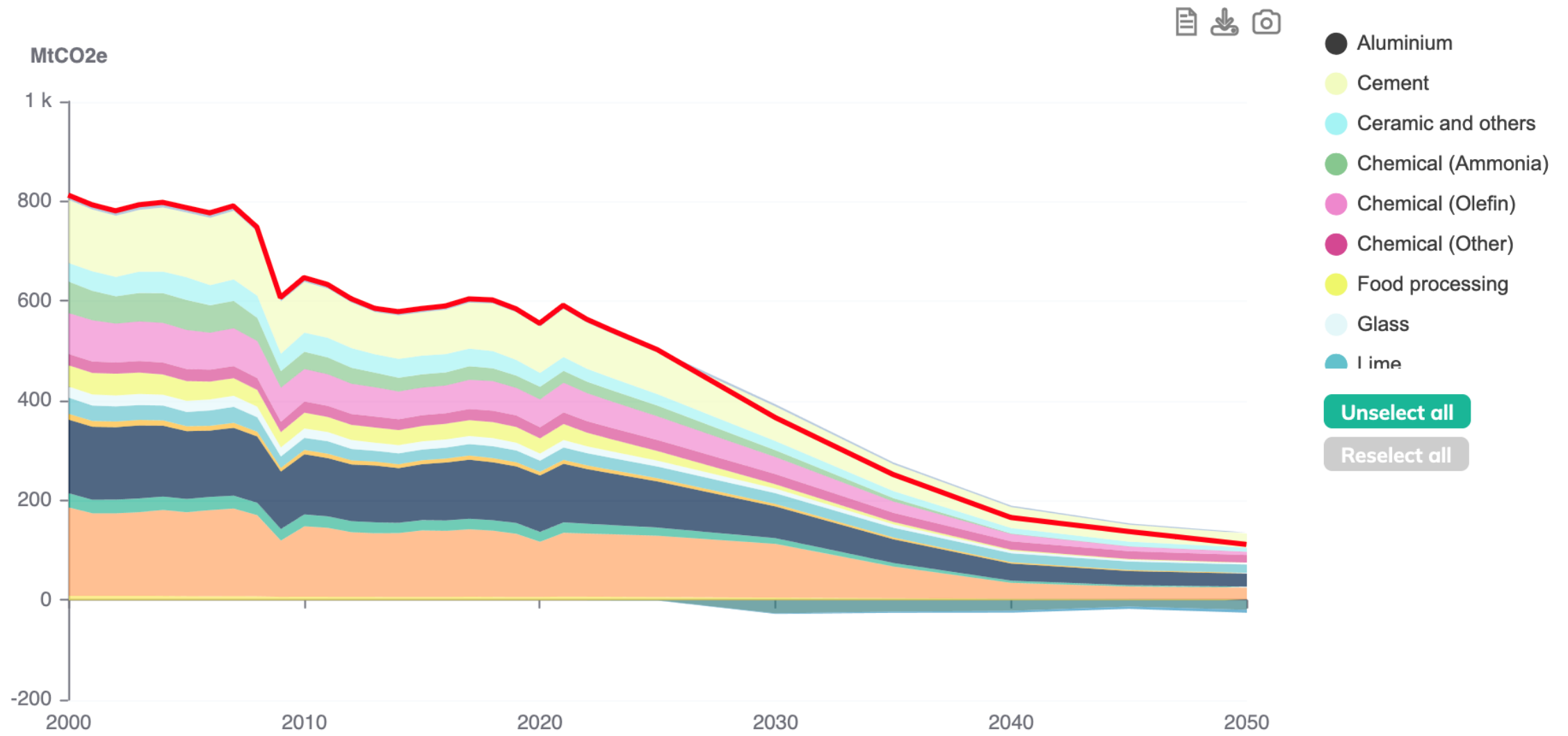
Emissions from forestry and land use are not included.

Data source: Eurostat

Total GHG emissions by sector (Scope 1 territorial)

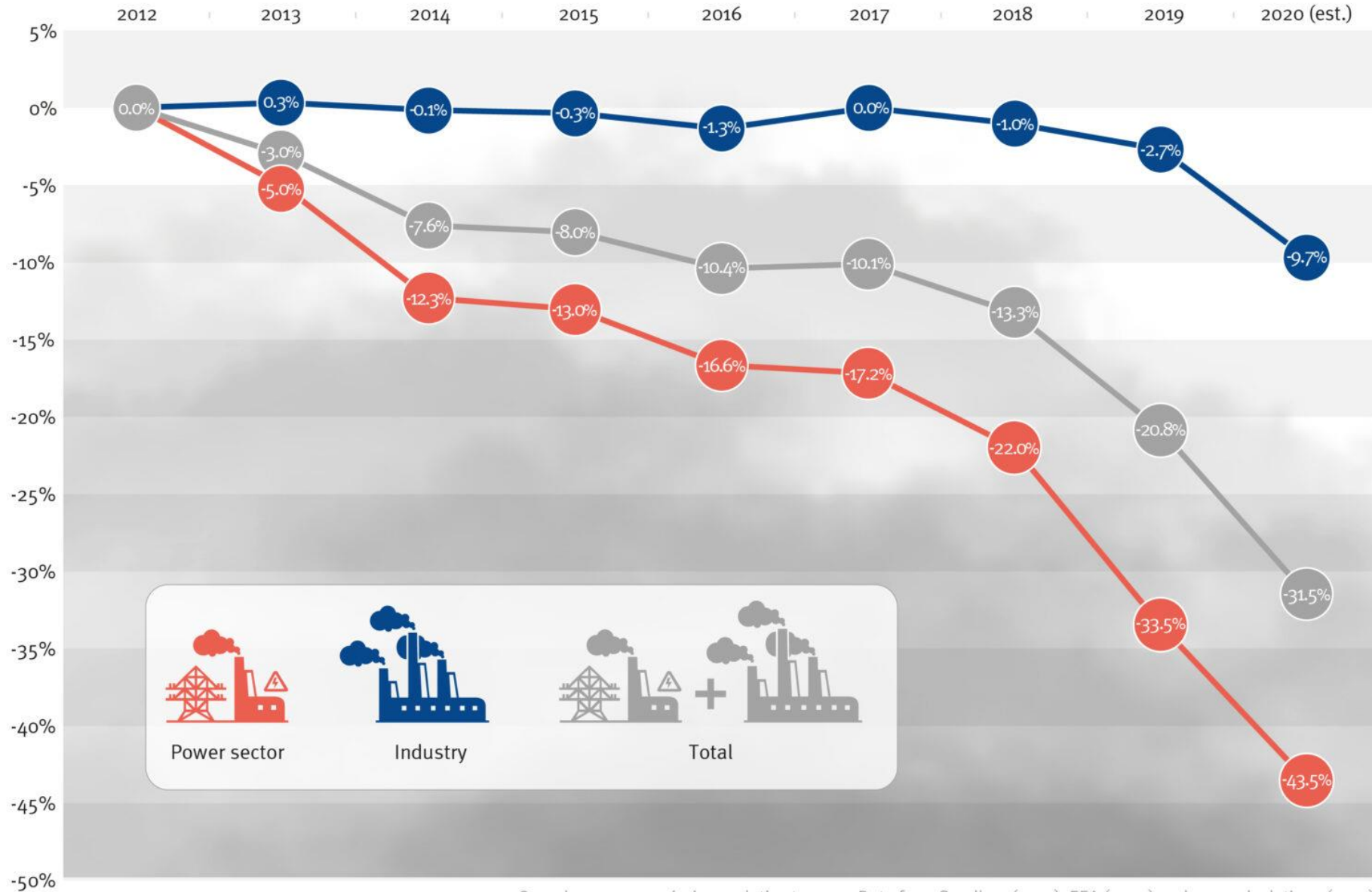


GHG emissions per sector in Industry



EU carbon market emissions

power sector vs. industry – 2012-2020



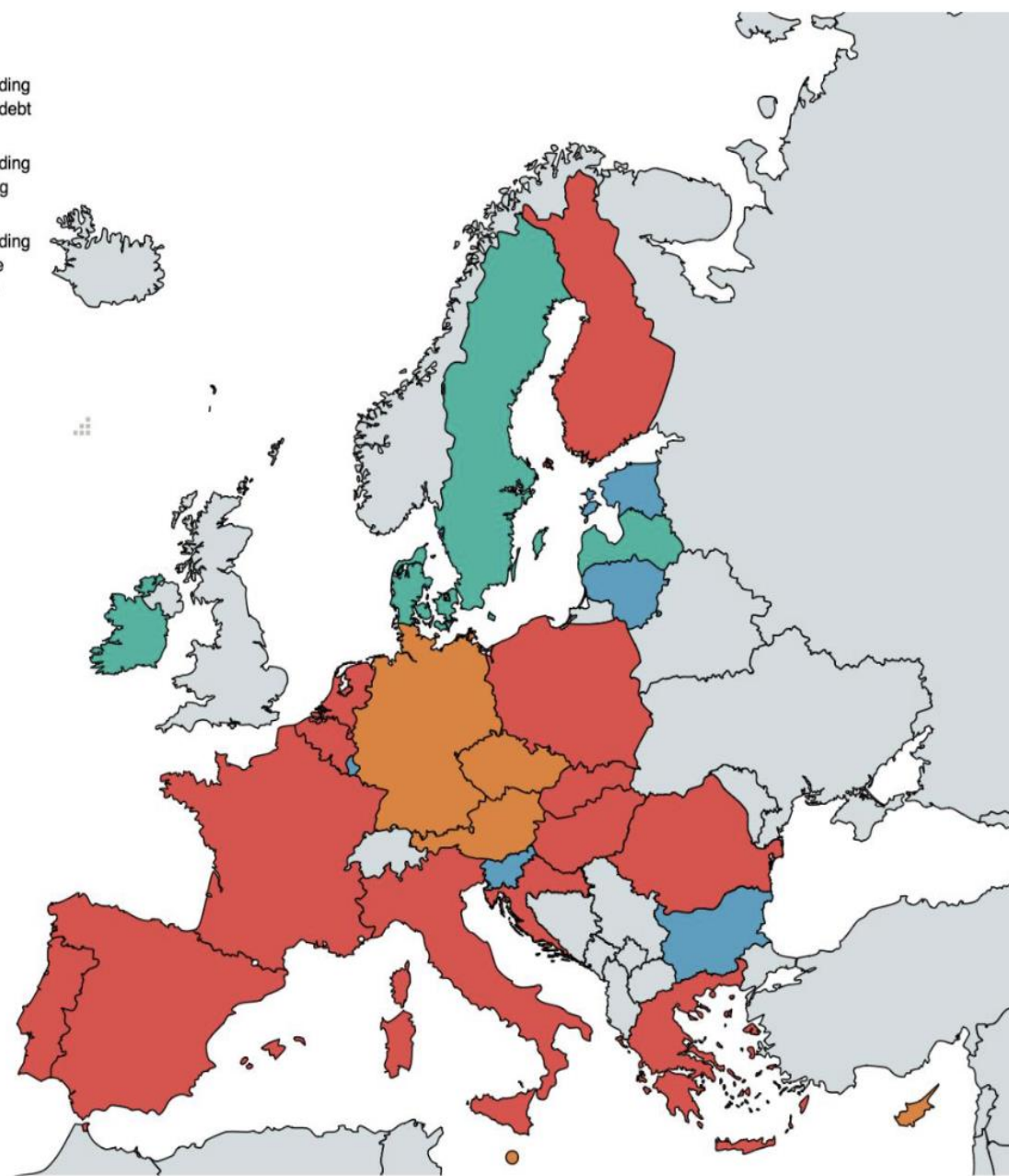
Greenhouse gas emissions relative to 2012. Data from Sandbag (2019), EEA (2020) and own calculations (2021).

Ability of Member States to invest into green transition

How much does the EU need to invest to reach the goals of Green Deal?

- ❑ € 620 bn/year by 2030
- ❑ € 1 trillion in total by 2030
- ❑ 1,8 % of EU's GDP

- Can increase green spending by 3% without breaching debt or deficit rules
- Can increase green spending by 1-2% without breaching debt or deficit rules
- Can increase green spending by at least 1% but may be constrained by debt rules
- Can't increase green spending by 1% without breaching debt or deficit rules



Note: NEF analysis

**Thank you for your
attention.**