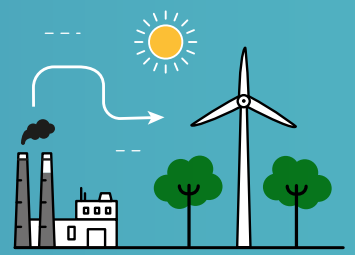


Reaching carbon neutrality under climate change in 2050



What level of CO₂ emissions from the power sector will be needed by 2030?

On the path to carbon neutrality by 2050, goals for the reduction of carbon intensity of the electricity mix by 2030 are affected by climate variability. In comparison with a reference scenario, changes in the carbon intensity of the mix at European level range from -0.9% to 0.2% according to the climate variability scenario. Climate variability calls for vigilance in South East Europe (BG, GR, HR, HU, RO, SI, & SK), North East Europe (LT, LV, & EE) and Central East Europe (CZ & PL) countries where it might impact negatively carbon intensity of power sectors.



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Map: Annual CO₂ per kWh needed by 2030 to reach carbon neutrality in 2050, considering climate variability, by region (gCO₂/kWh)

Climate variability refers to 22 climate projections for the two representative concentration pathways RCP 4.5 (intermediate climate stabilisation) and RCP8.5 (higher global warming).

