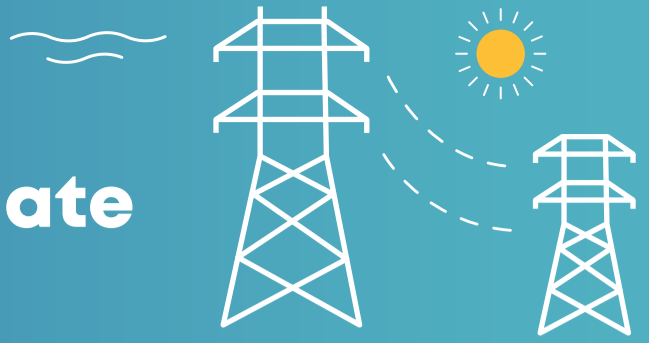


Reaching carbon neutrality under climate change in 2050



How might the electricity trade be affected?

Depending on what the future climate will look like, there will be differentiated impacts on volumes and direction of traded electricity from renewable electricity systems across Europe in 2050. According to the model, between 736.7 and 813.9 TWh will be traded within and between European regions in 2050. As the diagrams show, the highest variability in traded volumes concerns regions who export and/or import the most important volumes. For instance, Central West Europe should import at least 399.5 and at most 512.1 TWh of electricity, depending on the future climate. Likewise, it should export at least 318.6 and at most 405.8 TWh of electricity.



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Below: Amounts of electricity traded in 2050 between and within regions, considering climate variability

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).

