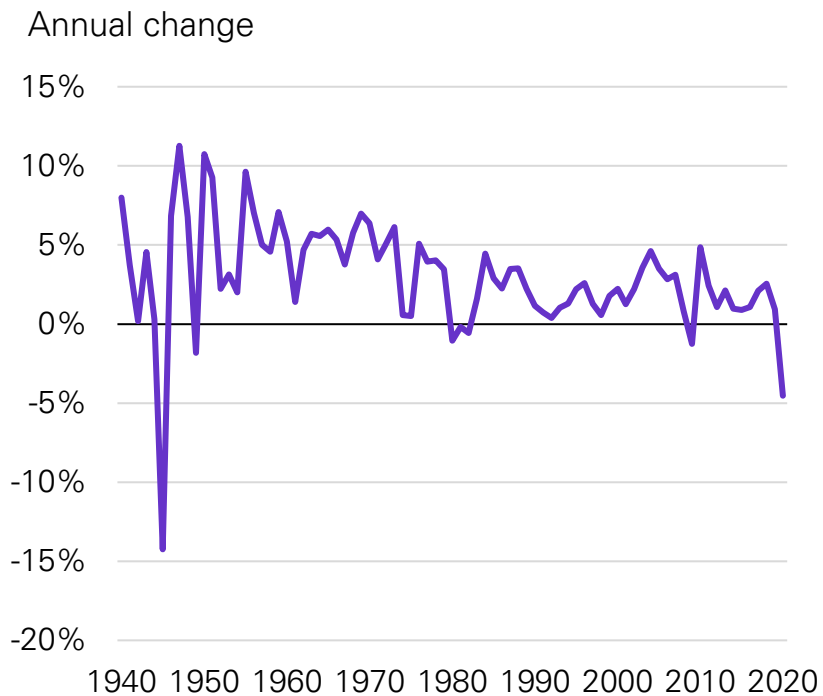


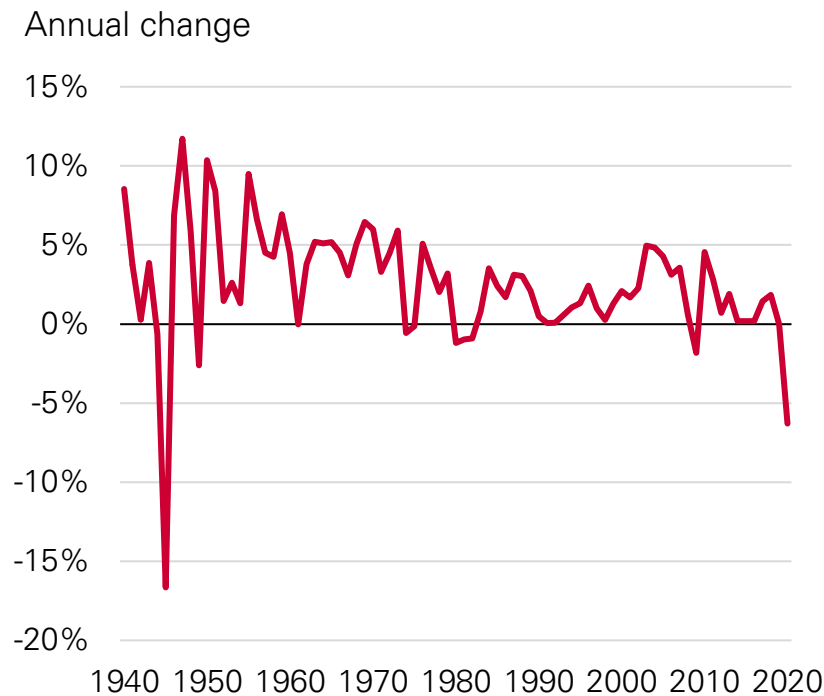
Global energy demand and carbon emissions



Primary energy consumption



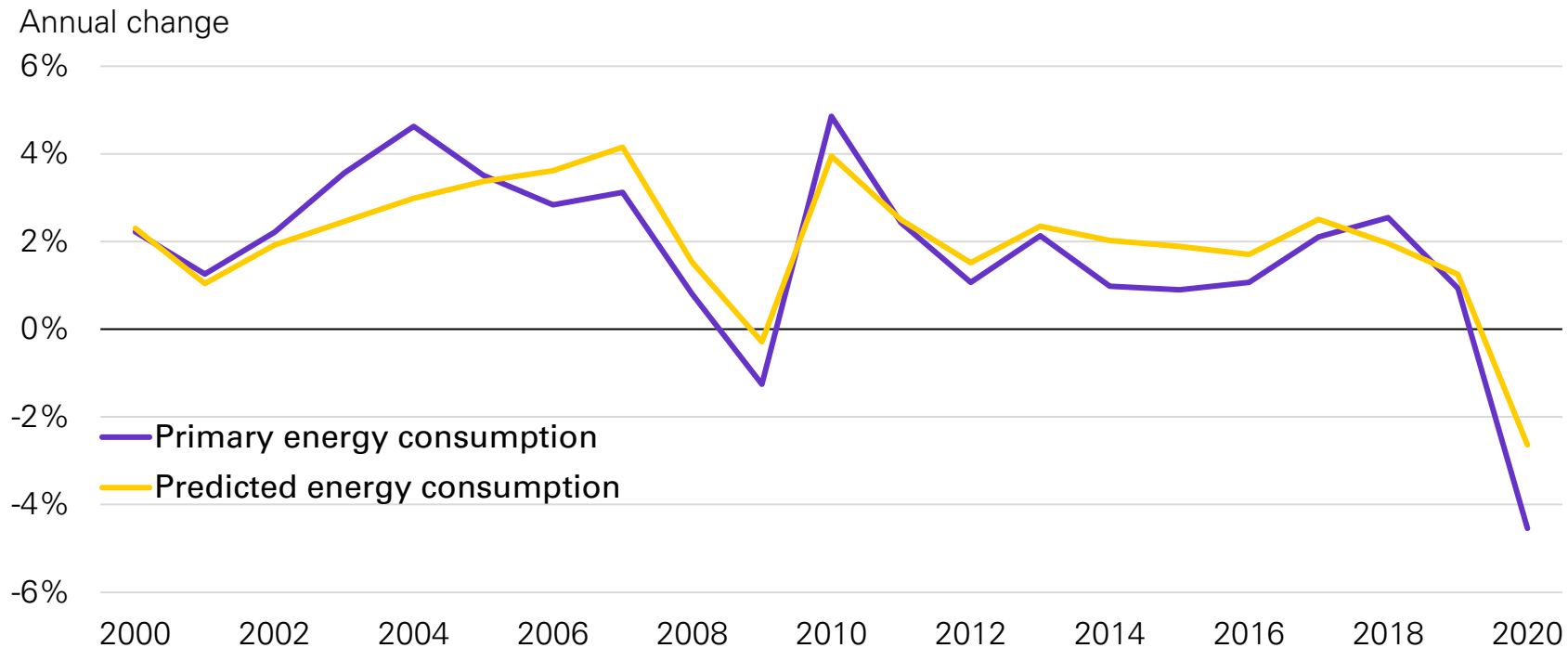
CO₂ emissions from energy use



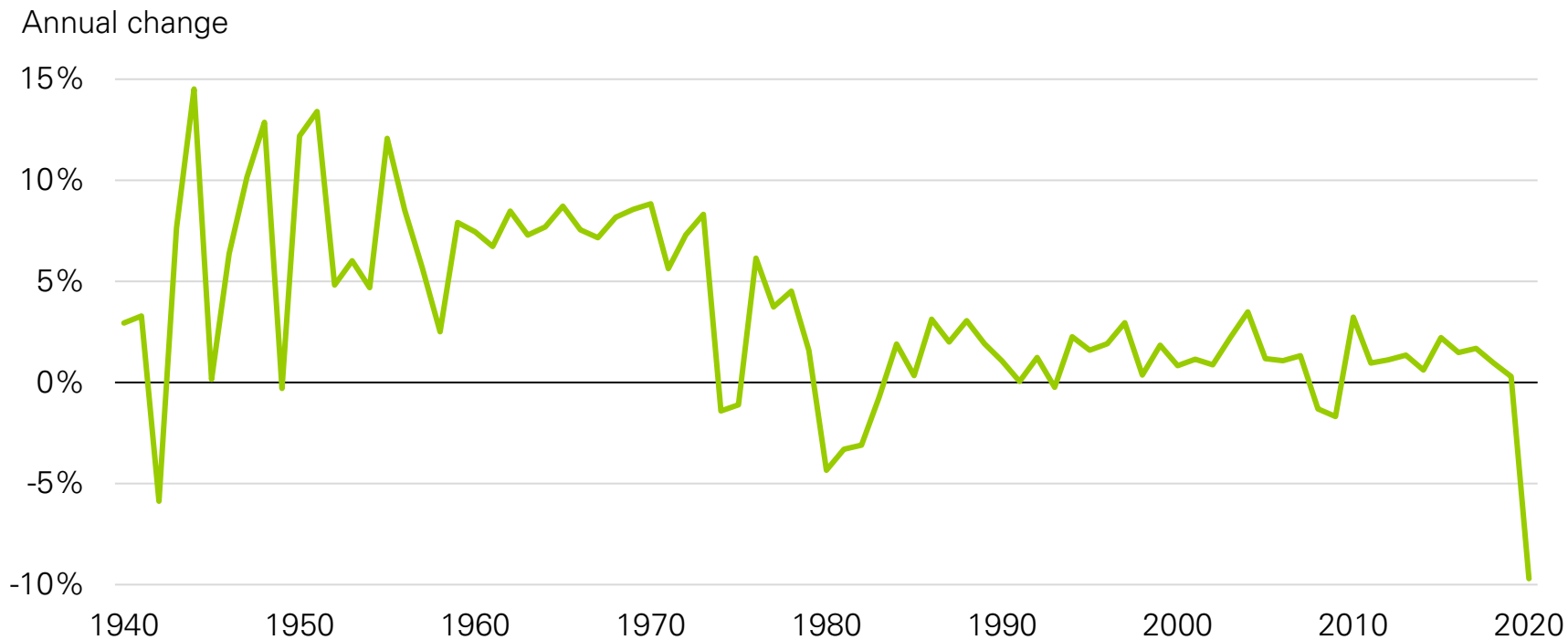
Source for pre-1965 data: Rühl C. et al (2012)¹



Global energy demand: actual versus predicted



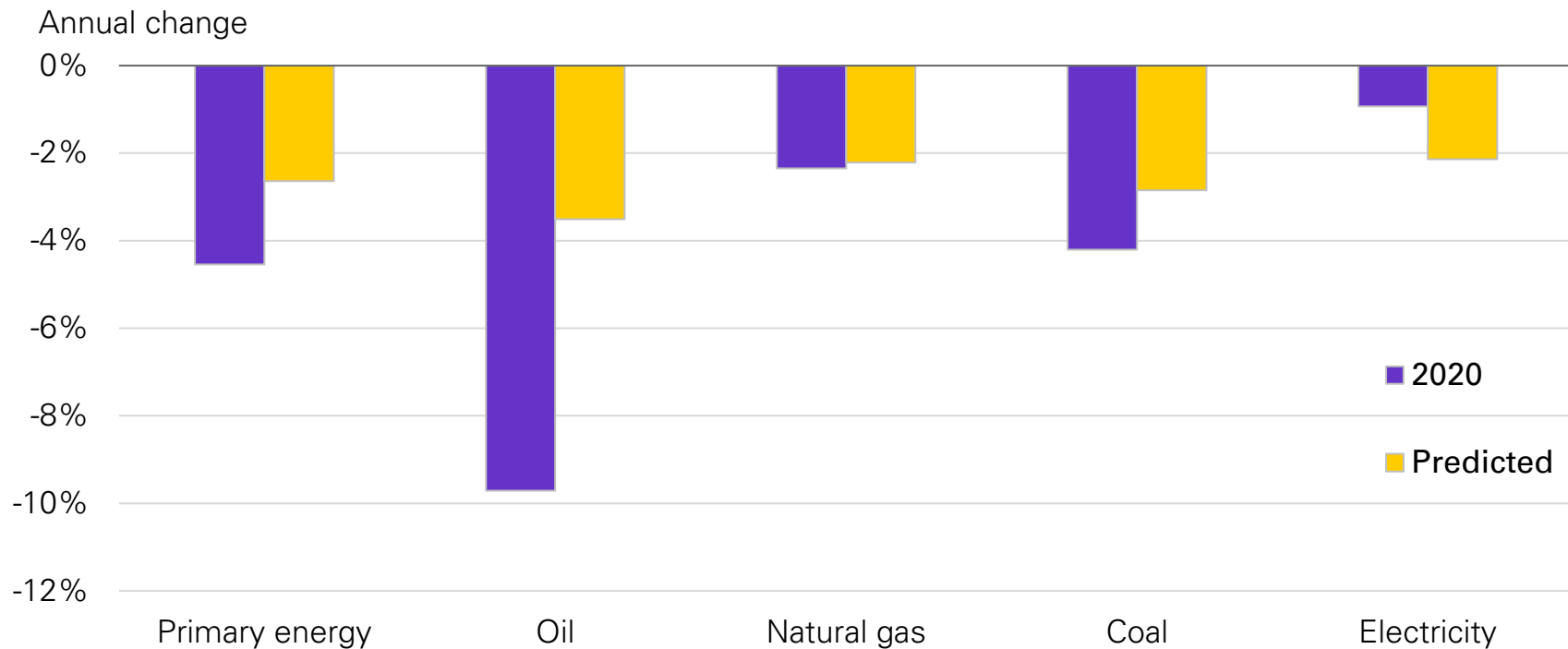
Growth in oil demand



Source for pre-1965 data: Rühl C. et al (2012)¹

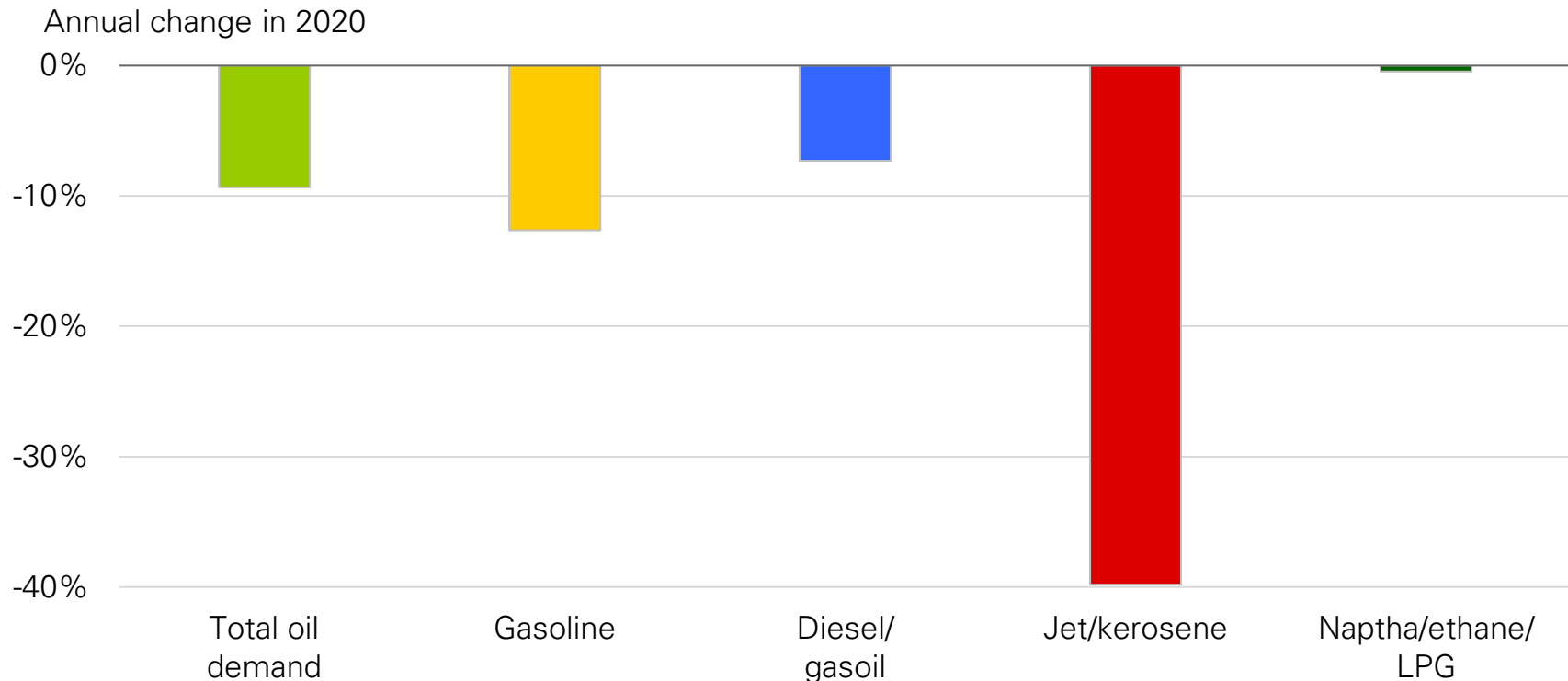


Energy demand growth in 2020

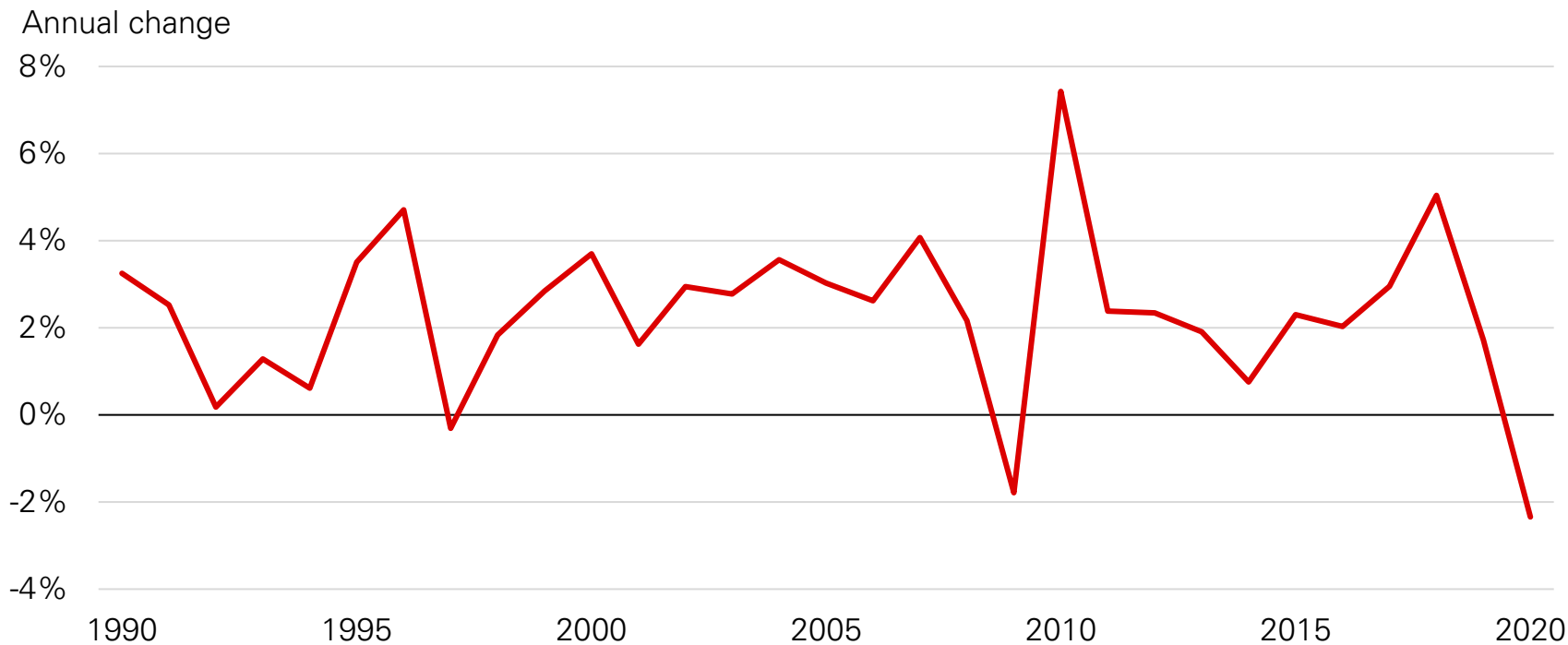




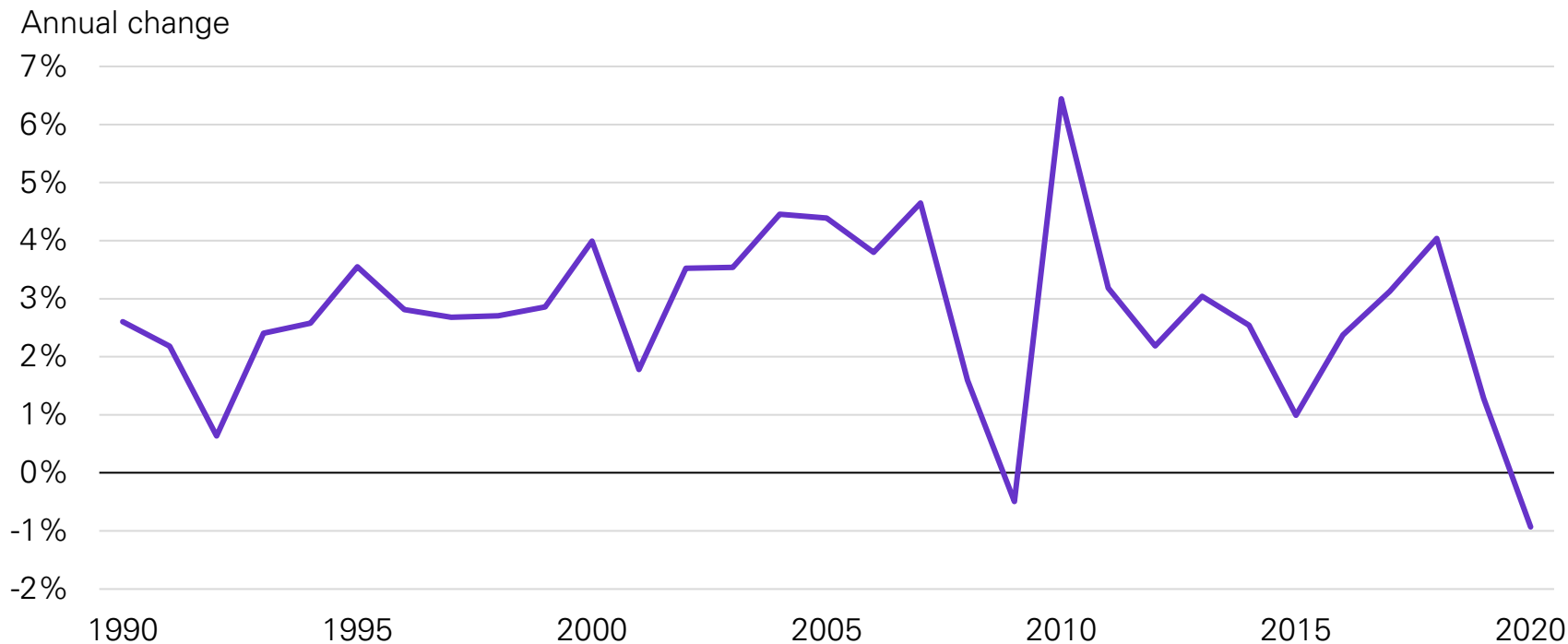
Oil demand by product



Natural gas demand



Electricity demand

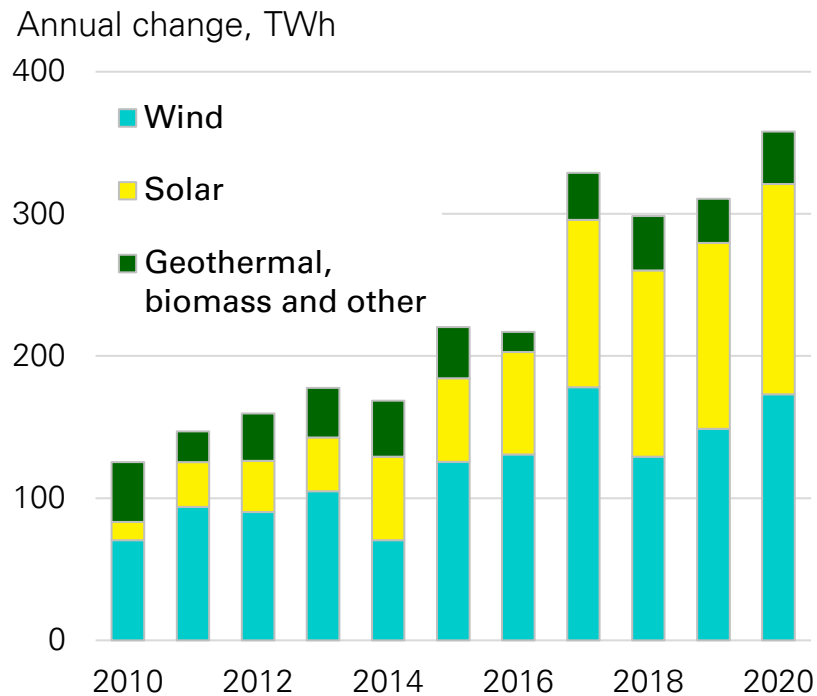


Electricity demand is proxied using electricity generation and so does not take account of system losses associated with transmission and distribution of electricity.

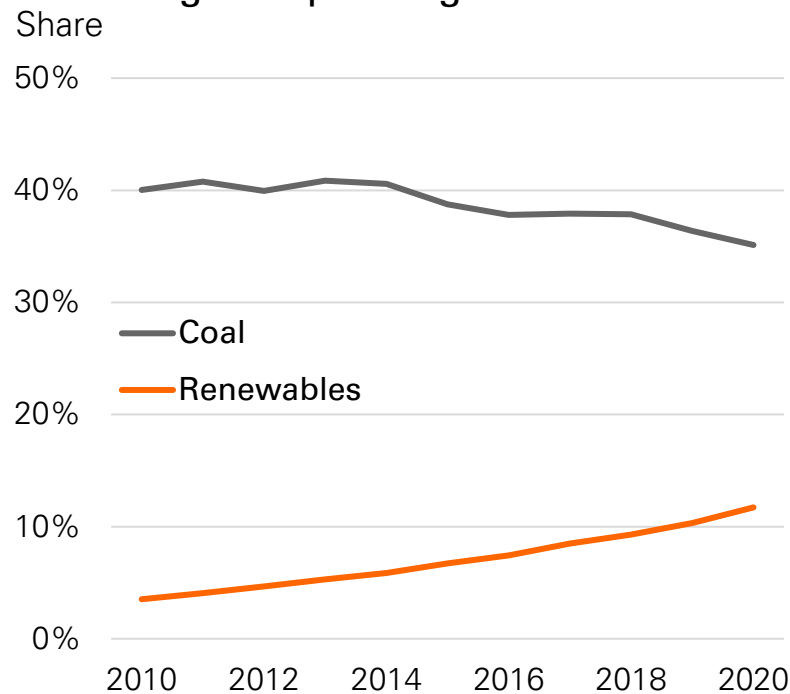
Power generation



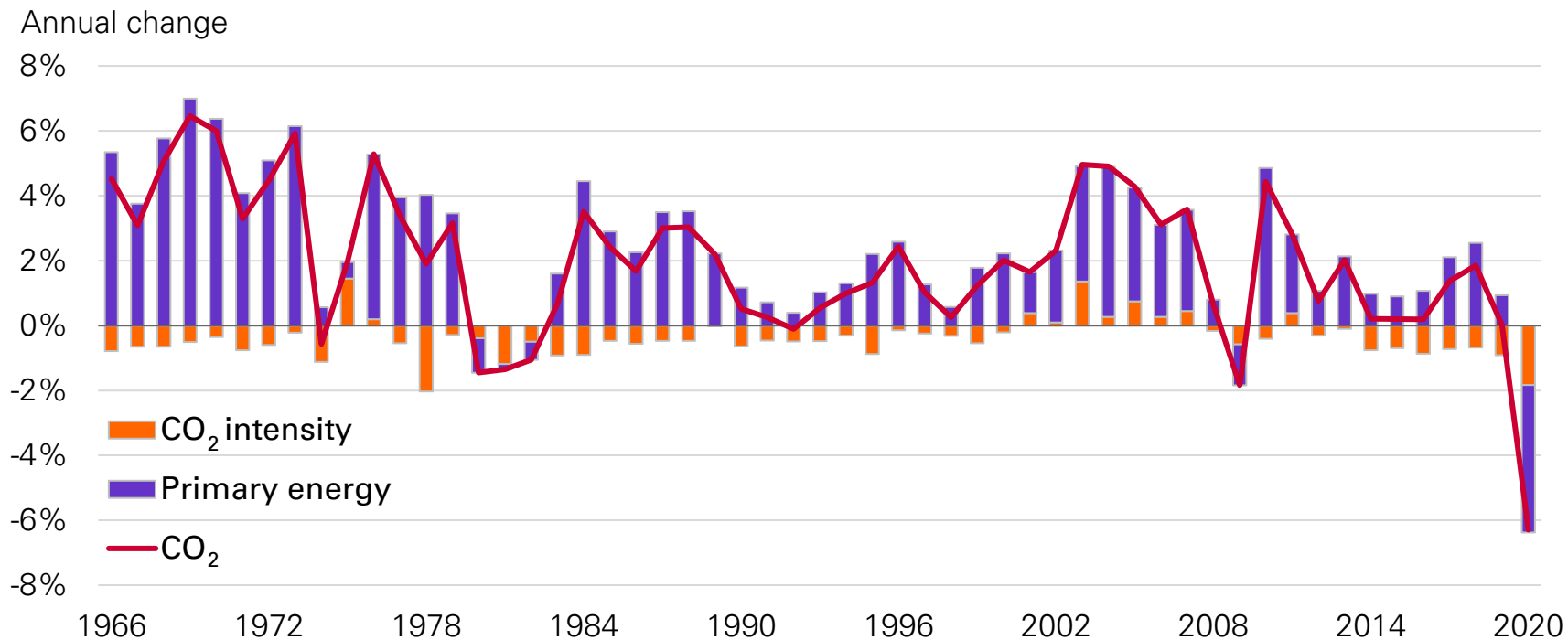
Renewable power generation



Share of renewables and coal in global power generation

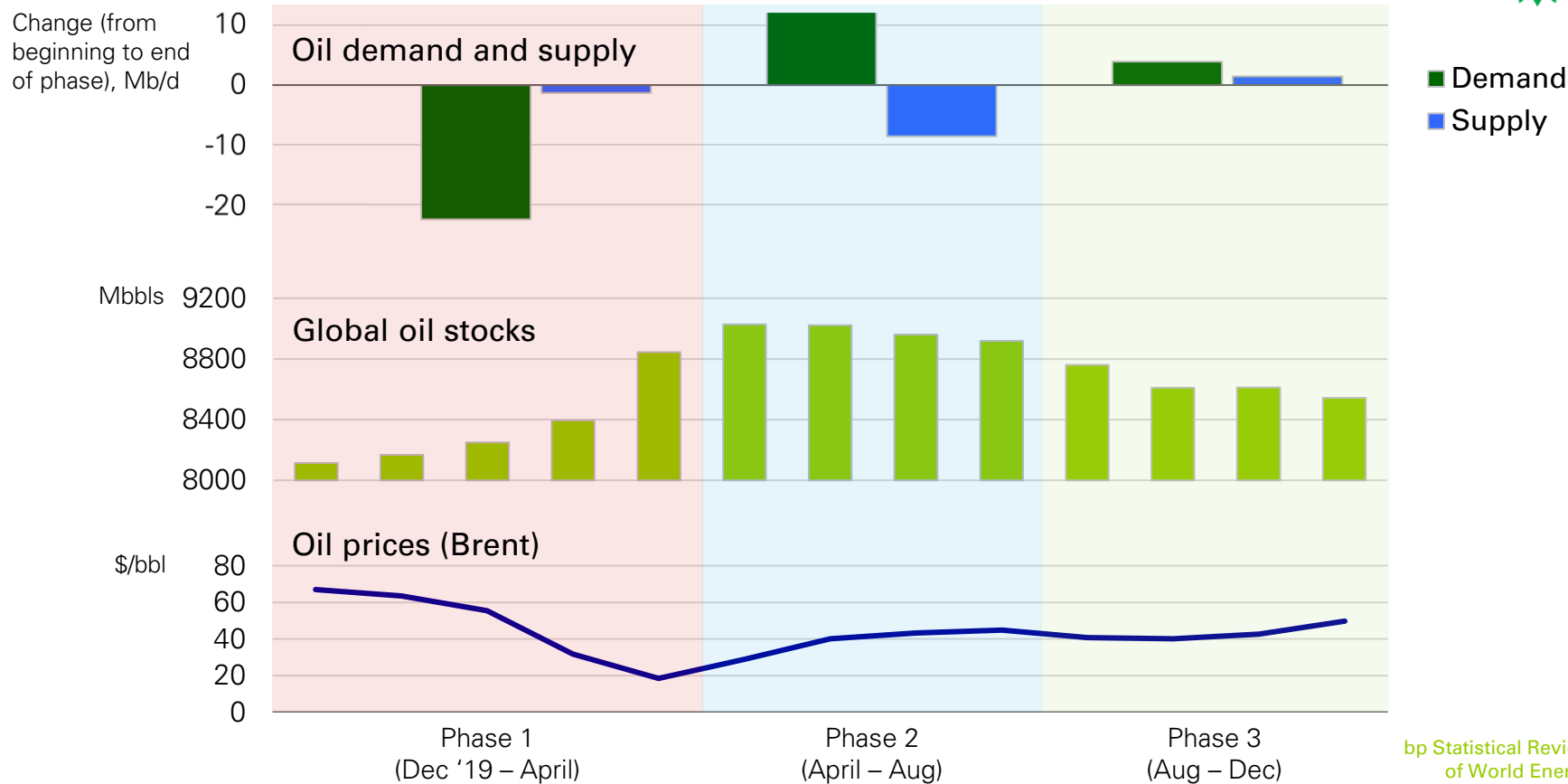


CO₂ emissions from energy use





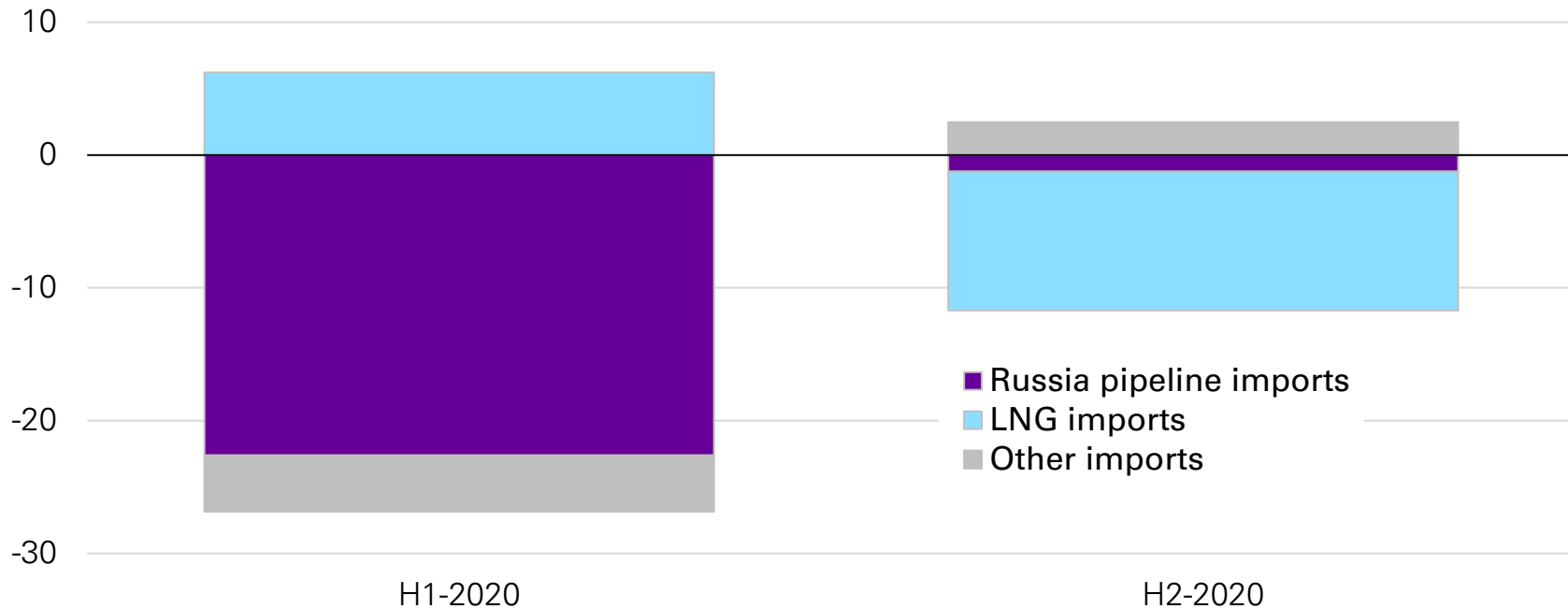
Oil market in 2020



Source: EIA (demand), IEA (supply), S&P Global Platts (prices)

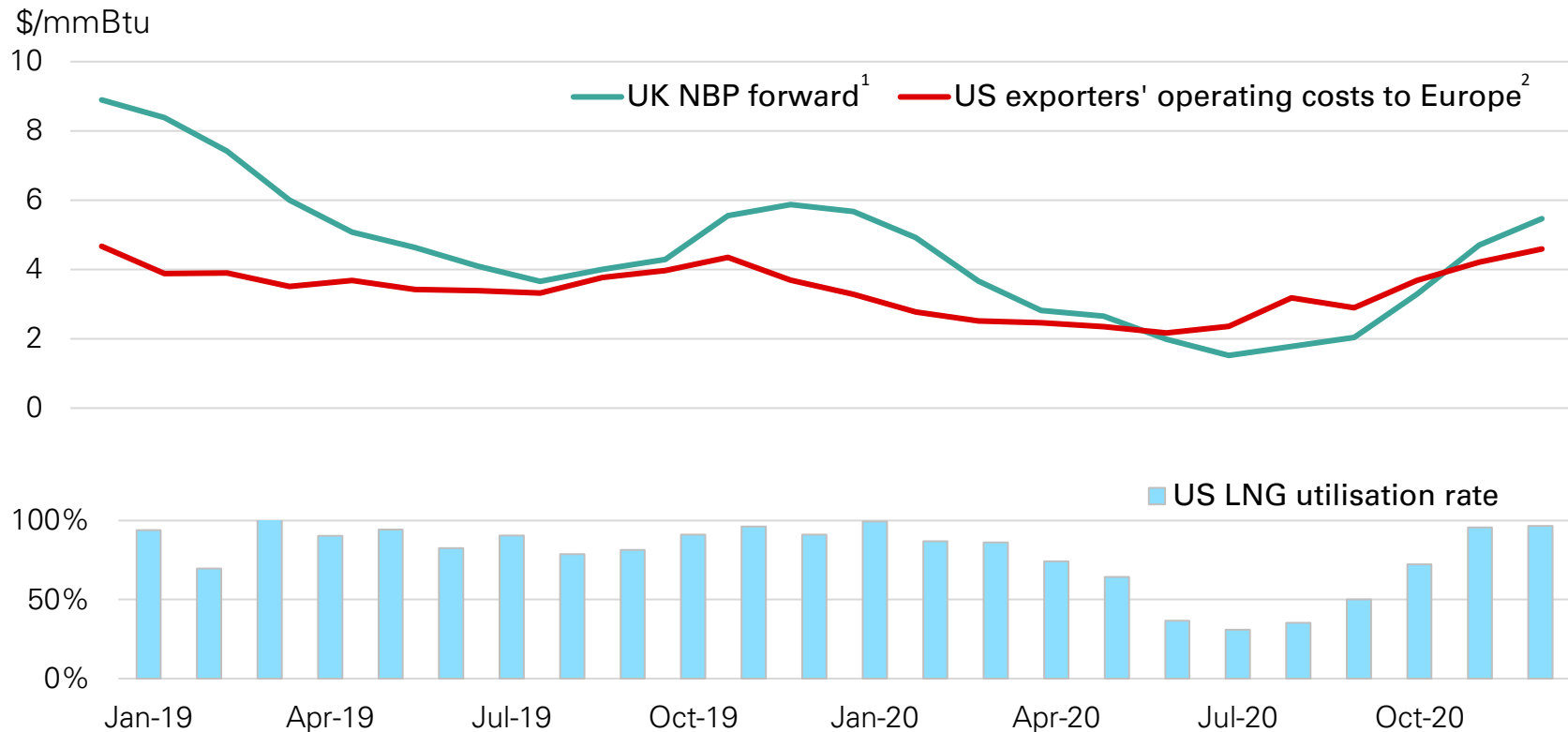
European natural gas imports

Year-on-year change, bcm





US LNG: operating costs and utilisation rates

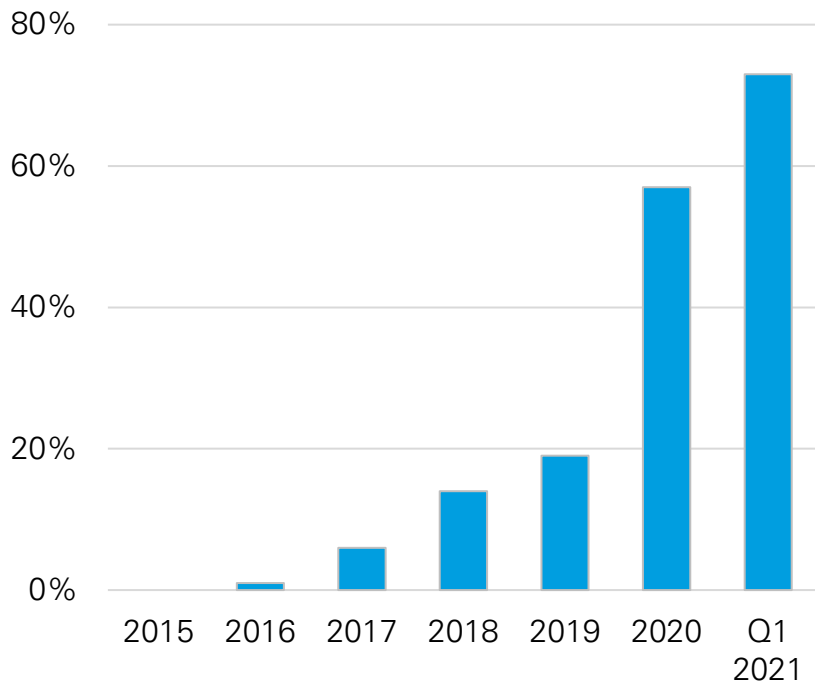


¹ UK NBP represents the average of forward prices 2 months ahead

² US exporters operating costs to Europe = Henry Hub * 1.15 + LNG voyage costs (Platts)

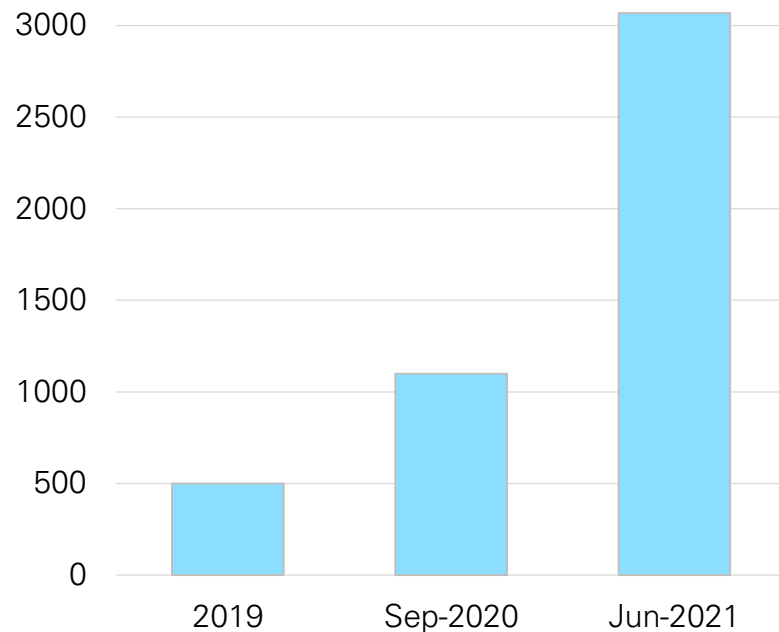
Net zero commitments

Share of global carbon emissions covered by net zero pledges



Source: IEA.

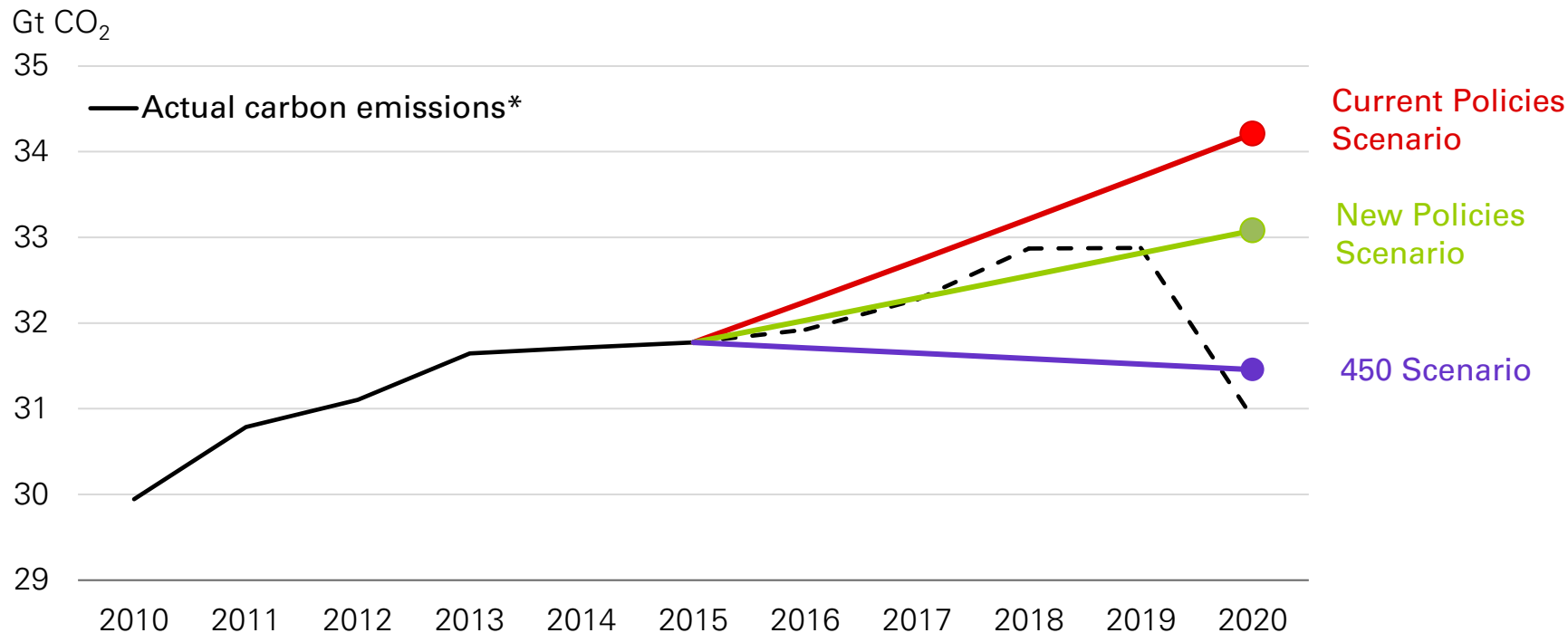
Number of companies committed to net zero



Source: UNFCC, Race to Zero.



IEA's 2015 World Energy Outlook and carbon emissions

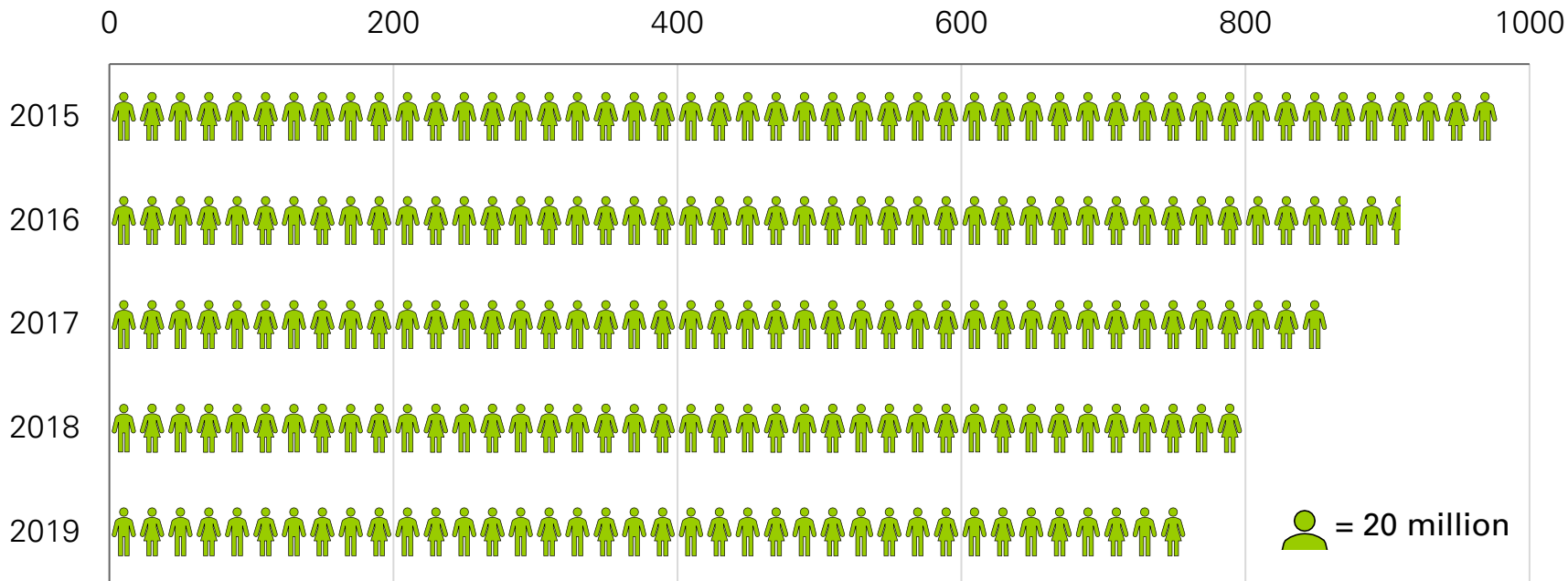


*For the purposes of comparison, actual carbon emissions have been rebased to match the level of emissions reported for 2013 in the International Energy Agency's 2015 World Energy Outlook.

Energy access



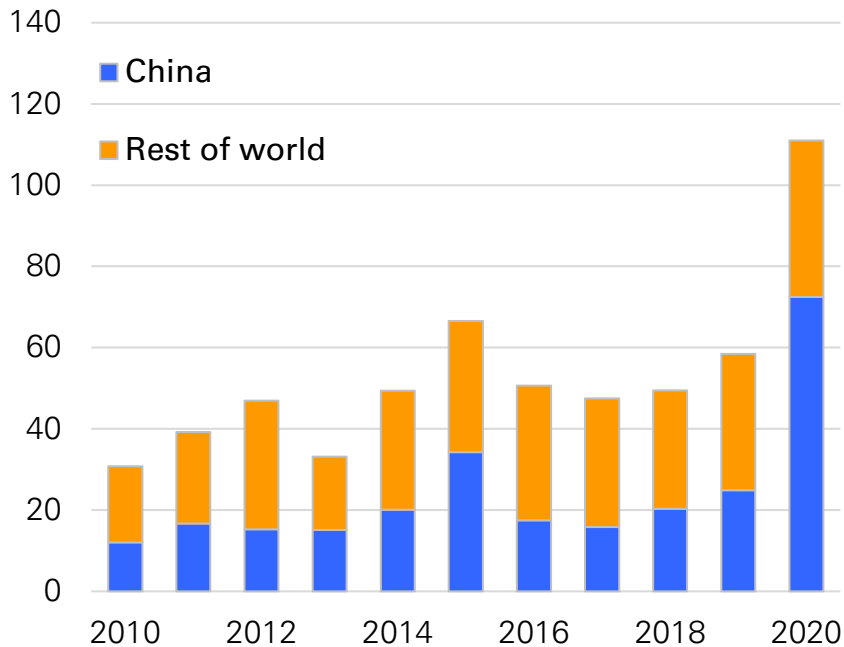
Number of people without access to electricity, millions



Wind and solar power capacity

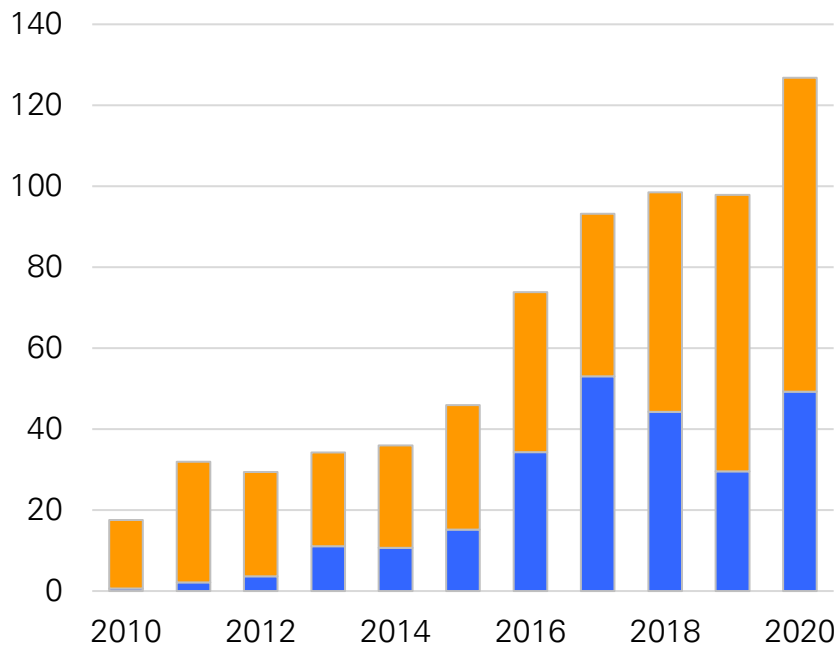
Wind capacity

Annual change, GW



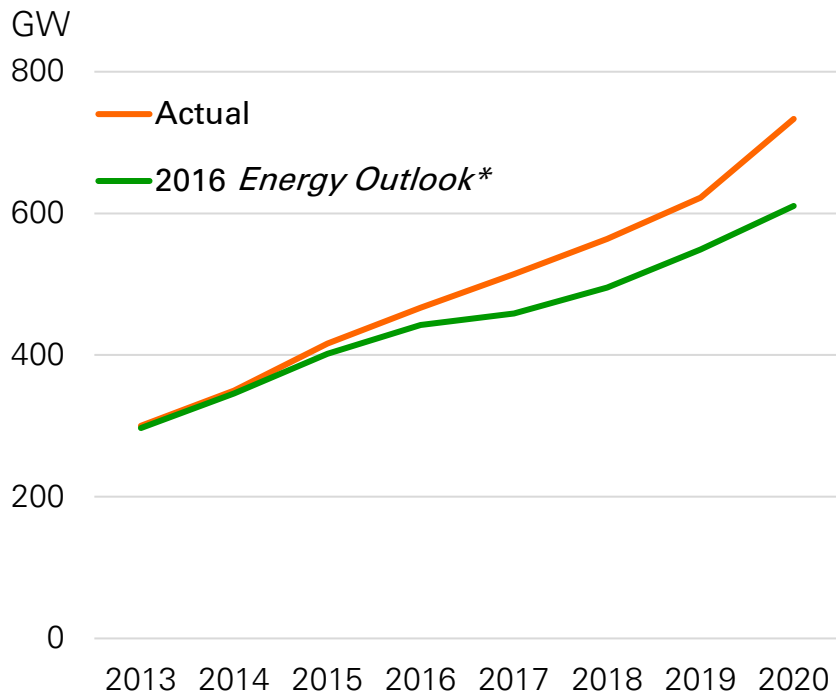
Solar capacity

Annual change, GW

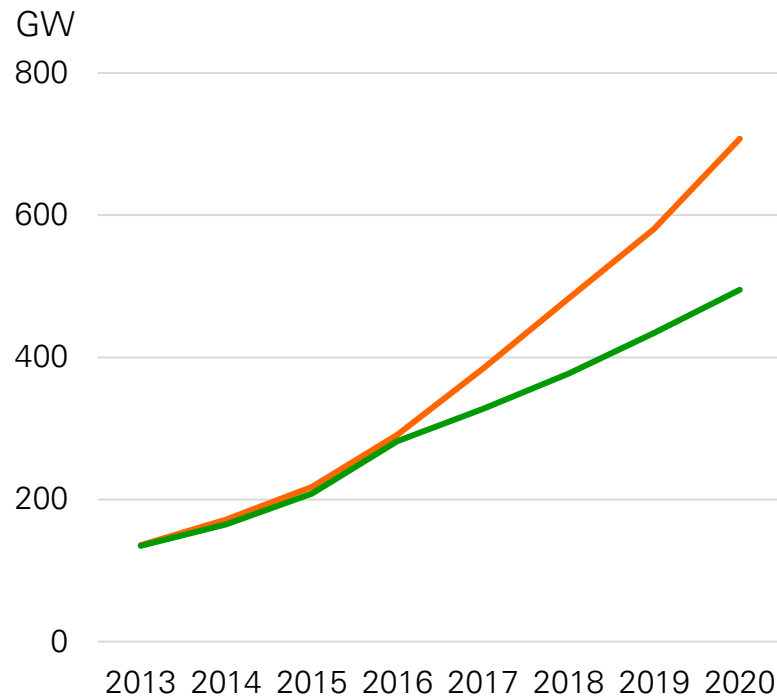


Wind and solar capacity

Wind capacity



Solar capacity

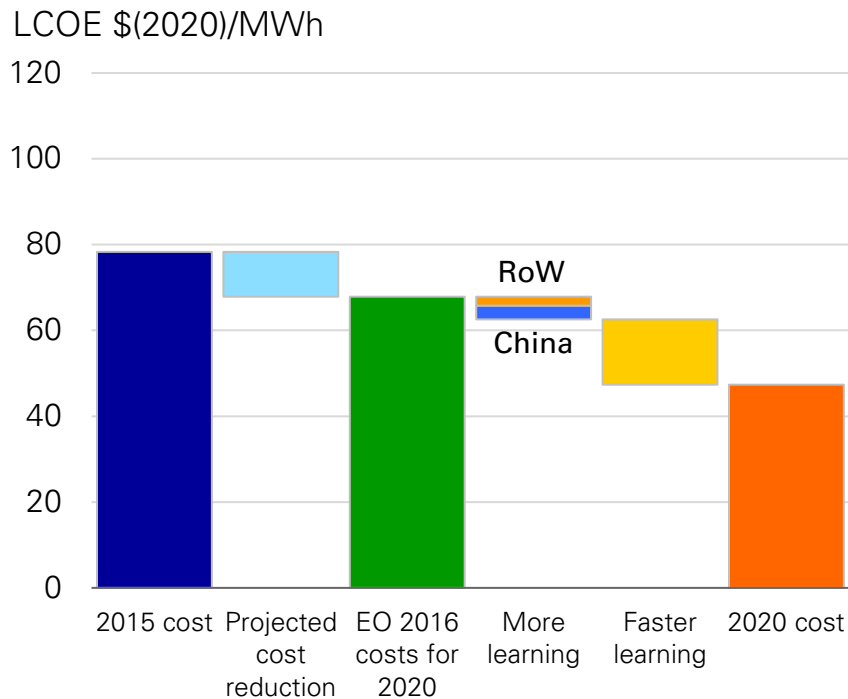


*2016 Energy Outlook (EO 2016) capacity profiles based on EO 2016 generation and EO 2020 historic capacity factors.

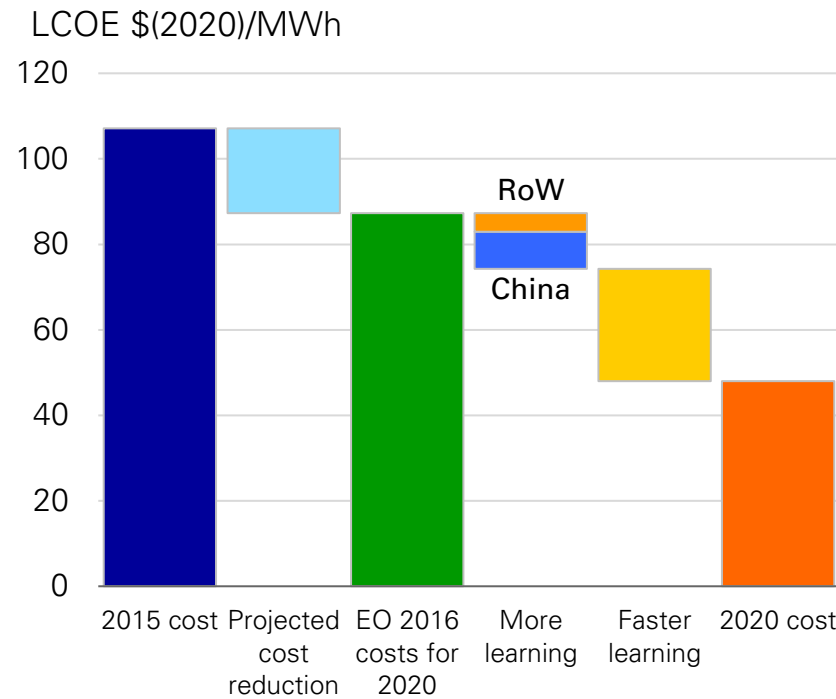


Cost of wind and solar

Wind cost



Solar cost



LCOE: Levelized cost of energy, global benchmark.