EMBER

COAL TO CLEAN ENERGY POLICY

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Wind and solar generate one tenth of global electricity % of electricity production from wind and solar; for Jan-Jun 2020 where available else 2019*





Jan-Jun 2020 data used for: China, United States, EU27, India, Russia, Japan, Canada, Brazil, South Korea, United Kingdom, Turkey, Australia, Chinese Taipei, Vietnam, Norway, Argentina, Chile, Bagladesh, Colombia and Peru.

Wind and solar share of global electricity doubled since 2015

Wind and solar as % of total generation





Renewables beat fossil fuels

EU-27 electricity generation





Demand picks up across the EU

% change vs. same month last year



Figure includes FU-27 and the 14 member states showing the highest increases in demand in August



New records for wind and solar Wind and solar electricity generation share



H1-2019 H1-2020



Wind and solar remain a minor part of the electricity mix in 2030 across eastern Europe

Wind and solar's combined share of electricity consumption [%]



Source: Ember analysis of the National Energy & Climate Plans (NECPs), Ember calculations. The 19 countries displayed account for ~ 97% of EU-27 consumption.



Wind + Solar Share of Gross Final Electricity Consumption

Germany regains title as top EU coal generator

Coal generation (hard coal and lignite combined)

Poland Germany Remaining 25 countries of EU-27





Europe's coal generation continues to collapse

EU-27 coal generation (hard coal + lignite)



H1-2019 H1-2020







Figure 4.7 Coal-fired electricity generation by technology in the NZE2050



There is a major reduction in coal-fired generation and related CO₂ emissions in the NZE2050, with the use of the least efficient coal power plants falling to zero by 2030