Regional Outlook 2021 - Country notes

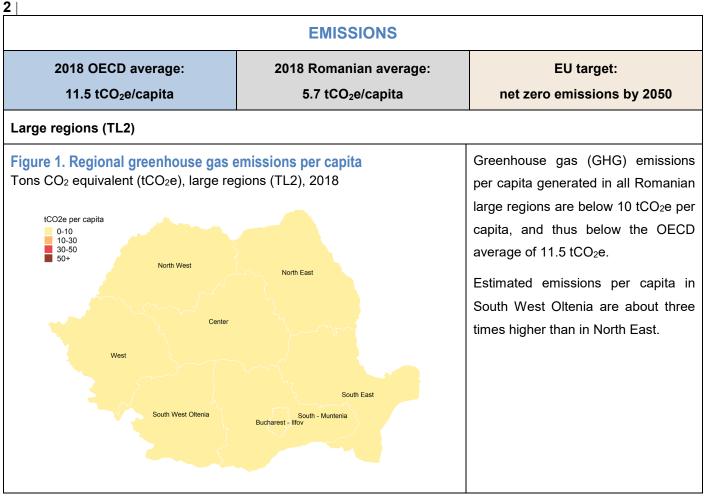
## Romania

Progress in the net zero transition



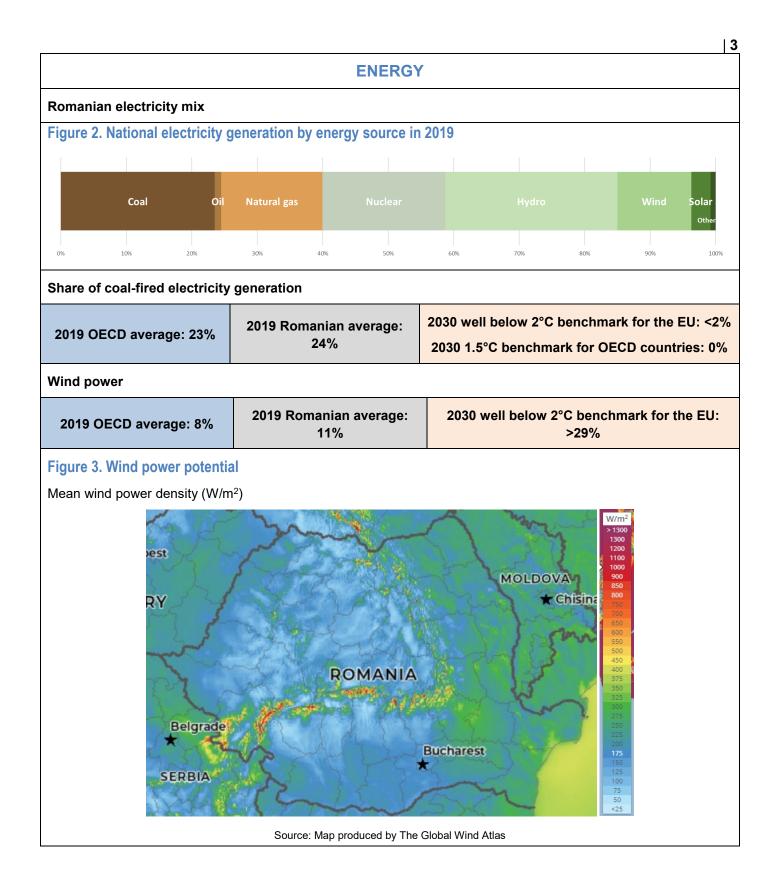
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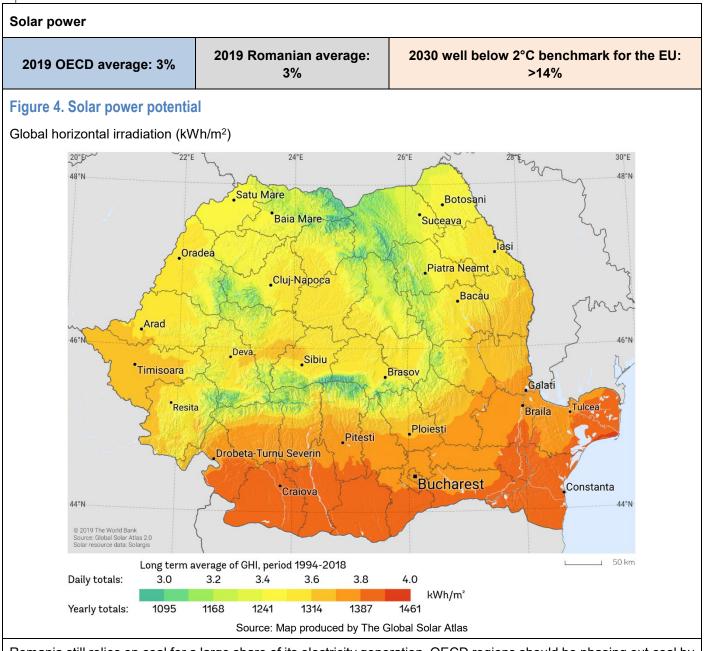
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Target notes: Emissions targets included in the Net Zero Tracker database from ECIU before January 25, 2021 are considered.

Figure notes: Figure 1, the national and the OECD average shows OECD calculations based on estimated greenhouse gas emissions data from the European Commission's Joint Research Centre (ECJRC). The Emissions Database for Global Atmospheric Research of the ECJRC allocates national greenhouse gas emissions to locations according to about 300 proxies. . See Box 3.7 in the 2021 OECD Regional Outlook for more details.





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Romania still relies on coal for a large share of its electricity generation. OECD regions should be phasing out coal by 2030 to align with the Paris Climate Agreement. The national average shares for wind and solar power are still far below the 2030 benchmarks. However, Romania has a large share of zero emissions electricity generation through nuclear and hydro power. Wind power density is mostly higher in eastern regions, solar power potential is higher in the south.

Benchmark notes: The well-below 2 degrees benchmarks show IEA Sustainable Development Scenario (SDS) numbers. The SDS models how the global energy system can evolve in alignment with the Paris Agreement's objective to keep the global average temperature increase well below 2°C above pre-industrial levels. According to the Powering Past Coal Alliance (PPCA), a phase-out of unabated coal by 2030 for OECD countries is cost-effective to limit global warming to 1.5°C.

Figure notes: Figure 4 shows data from the IEA (2020). Figure 5 shows OECD calculations based on the Power Plants Database from the WRI. The database captures electricity generation from the power plants connected to the national power grid. As a result, small electricity generation facilities disconnected from the national power grid might not be captured. See <u>here</u> for more details. Figures 6 and 7 show the power potential of solar and wind. Mean wind power density (WPD) is a measure of wind power available, expressed in Watt per square meter (W/m<sup>2</sup>). Global horizontal irradiation (GHI) is the sum of direct and diffuse irradiation received by a horizontal surface, measured in kilowatt hours per square metre (kWh/m<sup>2</sup>).

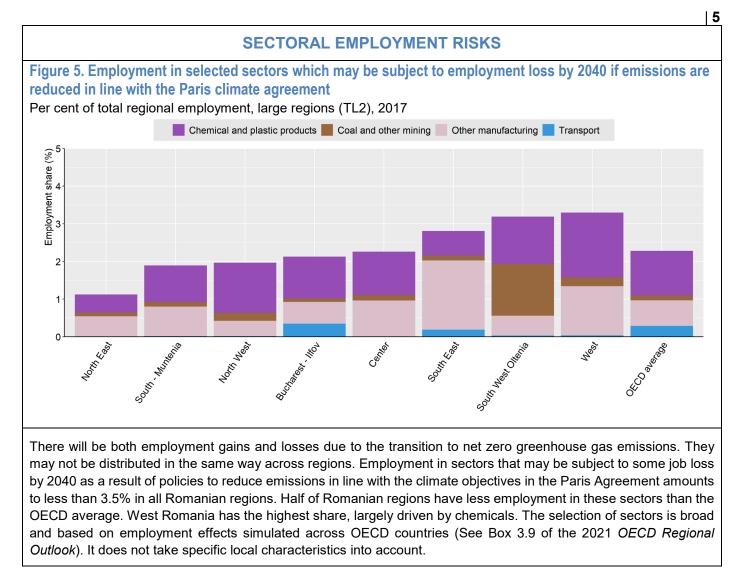
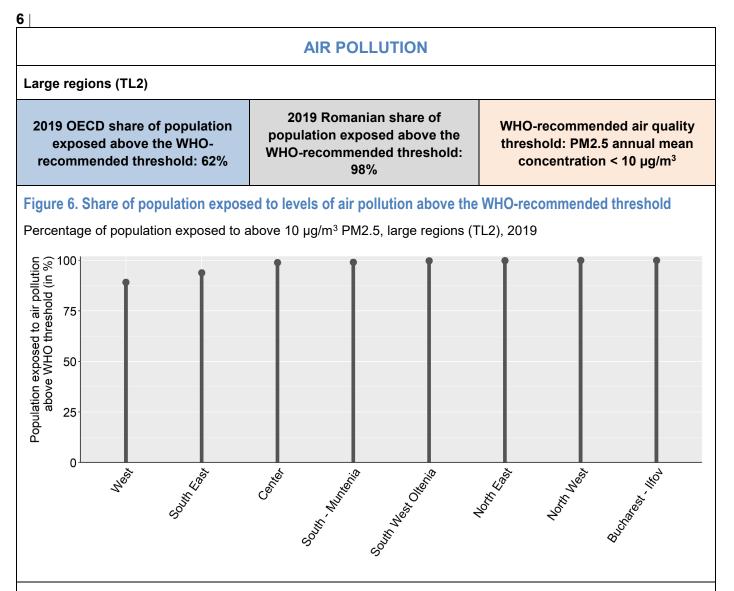


Figure notes: Figure 5 is based on data from OECD Statistics. Sectors are selected based on macroeconomic simulations of a scenario limiting global warming to well below 2 degrees. See Box 3.9 in the 2021 OECD Regional Outlook for more details.



Policies towards net-zero greenhouse gas emissions can bring many benefits beyond halting climate change. They include reduced air and noise pollution, reduced traffic congestion, healthier diets, enhanced health due to increased active mobility, health benefits through thermal insulation, and improved water, soil and biodiversity protection. Some are hard to quantify.

Small particulate matter (PM2.5) is the biggest cause of human mortality induced by air pollution. Major disease effects include stroke, cardiovascular and respiratory disease. Air pollution amplifies respiratory infectious disease such as Covid-19. It affects children the most. It reduces their educational outcomes as well as worker productivity.

In all regions the population is on average exposed to small particulate matter pollution above the maximum level recommended by the World Health Organisation.

Figure notes: Figure 6 is based on data from OECD Statistics.