



# Luxembourg electricity generation

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Wind was the main source for electricity generation in Luxembourg in 2023, accounting for 43 percent of total power production. That year, over 85 percent of Luxembourg's electricity production was derived from renewable sources.

The electricity generated in Luxembourg has been on the rise since the start of the millennium. In 2022, electricity generation in Luxembourg reach 1.16 TWh. Whereof 31.71% of the generated electricity in the country that year came from Bioenergy.

Between the year 2000 and 2022, Luxembourg's electricity generation has increased from 0.4 TWh to 1.16 TWh, a 190.0% increase in produced Terawatt hours during a 22 year time period.

This dataset contains yearly electricity generation, capacity, emissions, import and demand data for over 200 geographies. Data is collected from multi-country datasets (EIA, Eurostat, BP, UN) as well as national sources (e.g China data from the National Bureau of Statistics).

People at database.earth has not verified data entry and collection processes in person. We take all open data provided by governmental and non-governmental organization at face value.

This data is the foundation for most content and visualization found on this page. If you find errors in the representation of the data, please contact us and we will correct it.

Electricity can be generated in two main ways: by harnessing the heat from burning fuels or nuclear reactions in the form of steam (thermal power) or by capturing the energy of natural forces such as the sun, wind or moving water.

Unlike other energy commodities such as coal, oil and natural gas, electricity trade between countries is relatively limited as it is more technically complex and requires a direct cross-border interconnection. Such connections can help to balance out supply and demand across regions, which will be increasingly important as variable renewables like solar and wind make up a larger share of electricity generation.

Power generation, which includes electricity and heat, is one of the largest sources of CO2 emissions globally, primarily from the burning of fossil fuels like coal and natural gas in thermal power plants.



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Growth in electricity demand has slowed down or even reversed in many advanced economies due to energy efficiency efforts and the shift towards less energy-intensive forms of economic activity, such as services. But it is still growing rapidly in many emerging market and developing countries, especially those where a significant fraction of the population still lacks access to electricity.

Electricity is primarily used for heating, cooling, lighting, cooking and to power devices, appliances and industrial equipment. Further electrification of end-uses, especially transportation, in conjunction with the decarbonisation of electricity generation, is an important pillar of clean energy transitions.

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