

Luxembourg electricity market trends

This analysis includes a comprehensive Luxembourg energy market report and updated datasets. It is derived from the most recent key economic indicators, supply and demand factors, oil and gas pricing trends and major energy issues and developments surrounding the energy industry.

transmission capacity, and investment in energy efficiency in both the residential and non-residential sectors. Support municipalities in developing detailed local plans for the deployment of renewable energy, including wind power and photovoltaics, and for district heating and cooling systems. Further

Luxembourg aims to increase the share of renewables in final energy consumption to 35-37% in 2030 (11.7% in 2021), including 40.3% for heating (12.9% in 2021), 37.3% for electricity (14.2%), and 18% for transport (8%).

The country's consumption per capita was 4.9toe in 2022, of which electricity accounts for about 0.9 MWh, which is around twice the EU average. Part of this high consumption is linked to steel production and to fuel tourism for motor fuels.

Total energy consumption decreased by 12% in 2022 to 3.2 Mtoe (-9% at normal climate), after a 6% rebound in 2021 and a 13.5% drop in 2020. Previously, it decreased by 1.6%/year from 2005 to 2016 and increased by 2.5%/year between 2016 and 2019.

To achieve its 2030 target, Luxembourg intends to use cooperation mechanisms already in place with the others EU countries to statistically buy a part of their renewable energy production.

Luxembourg aims to reduce its GHG emissions by 55% in 2030 compared to 2005. In 2021, total net GHG emissions increased by 2.5% to 8.8 MtCO₂eq, after a 16% drop in 2020. They decreased by 17% between 2010 and 2016 and rose until 2018 (+9%). They were 31% below their 1990 level in 2021 (29% below 2005).

In 2022, CO₂ emissions from fuel combustion decreased by 14% to 6.7 MtCO₂ after a 5% increase in 2021 and an 18% drop in 2020. Previously, they decreased by 20% between 2010 and 2016 and rebounded subsequently by 8% to 9MtCO₂ in 2019.

The industry generates electric power and is responsible for its transmission from generating facilities to distribution centres, which deliver electricity to end users.

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