

How much energy does Belgium use?

Total annual wind and photovoltaic generation in Belgium reached an all-time high (21.5 TWh or + 23%), accounting for 28.2% of the electricity mix (19,8% in 2022). More than half (66.5%) of the energy mix for 2023 comprised nuclear and gas-powered generation (74,2% in 2022). Electricity consumption decreased by 3.5% compared to 2022.

Who produces electricity in Belgium?

Electrabelis main producer of electricity, followed by EDF Luminus. Short term trading is done via the Belpex energy exchange, which is now part of APX-ENDEX. The Belgian transmission grid, operated by Elia System Operator, has a central position in the Synchronous grid of Continental Europe.

Will Belgium's energy mix be reliant on imports in 2035-2050?

Belgium's existing generation facilities and already-approved investments can provide only half of what is needed in the long term. Therefore, new governments will soon have to consider the desired energy mix for the period 2035-2050 and how reliant the country is willing to be on imports.

Will Belgium become more reliant on electricity imports?

If policy remains unchanged, we will see Belgium's dependence on electricity imports steadily increase, from 50-60 TWh in 2036 to 70-90 TWh in 2050. Without a long-term strategy on the future energy mix and new policy measures, Belgium will therefore become more reliant on electricity imports.

Can Belgium achieve its offshore wind ambitions in the North Sea?

Belgium can experience significant benefits, for instance, by successfully realising its offshore wind ambitions in the North Sea. Over the next few years, substantial planning and designing efforts are required to ensure the successful installation of up to 8 GW of capacity in the Belgian North Sea.

What is Belgium's energy policy?

It is governed by the energy policy of Belgium, which is divided between several levels of government. For example, regional governments are responsible for awarding green certificates (except for offshore wind parks) while the national government is responsible for all nuclear power.

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The proposed modeling approach is tested by modeling Belgium's energy matrix using LCA information and

optimizing scenarios according to three LCA indicators: global warming potential (GWP), indirect cumulative exergy ...

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BRUSSELS | The Belgian energy landscape will undergo an immense transformation over the next 25 years, but the outlook is nevertheless positive. By 2050, energy consumption from buildings, transport, and industry will fall by around 40%. These efficiency gains will be mainly driven by increasing electrification.

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