

Equans is contributing to Belgium's energy transition by building one of the country's largest battery farms, with a capacity of 2 x 100 MW and 800 MWh of storage. Find out how Equans, in partnership with ENGIE, is playing a key role in transforming the former Vilvoorde gas power plant into a pillar of renewable energy.

Our transmission system plays a leading role in bringing about the energy transition: Elia is developing and building its 30 kV to 380 kV electricity transmission system, both on land and offshore, to keep people and businesses supplied with sustainable, reliable and ...

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.

Sweco has leading-edge expertise in energy systems and electricity grids, and delivers consulting services within transmission and distribution, wind and solar power, and hydrogen and energy storage.

The project will be developed by ENGIE, and the system will be one of the largest ever installed in Europe with a power capacity of 200MW/800MWh. It is Sungrow's first BESS project in Belgium. It is scheduled for grid connection in 2025.

Frequency and voltage control and stability are important topics of the power and energy systems research at the Electrical Energy Laboratory (EELAB). Flexibility is a focal area in the current research.

ENGIE has commenced construction on one of Europe's largest Battery Energy Storage Systems (BESS) at its Vilvoorde site in Belgium. This significant project, launched on July 5, follows the acquisition of a construction permit in July 2023 and selection for capacity remuneration in October 2023.

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Nevertheless, Belgium does export (and transmit) power. Its major clients are France and the UK which both have nuclear energy in their capacity mix. Belgium primarily imports from the Netherlands, followed by Germany. Curtailment is low in both scenarios and generation adequacy can be assured, even during rather harsh



## Belgium perfect power systems

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