

Slovenia's high-voltage transmission network consists of three different voltage levels: 400 kV, 220 kV and 110 kV. It is intended to transmit electric power from large energy generators (the nuclear power plant, thermal power plants, hydro power plants) to distribution networks and direct consumers at the high-voltage level.

Electricity generation at a thermal power plant, a standby energy source for the power grid Short description and activity specifics NEK generates around 5,400 GWh of low-carbon electricity a year, making up around 40% of Slovenia's total electricity output.

The first ever Static Synchronous Compensator (STATCOM) project in Slovenia, to be executed between GE's Grid Solutions and Slovenian equipment manufacturer and service provider KOLEKTOR IGIN, will provide fast-acting voltage and reactive power for regional steady-state and dynamic voltage stability. "To deal with the operational challenges ...

The company ensures the reliable, safe and uninterrupted supply of electricity 24/7. As the connection between the producers and consumers of electricity, ELES is also responsible for the seamless operation of Slovenia's entire electric power system. [READ MORE](#)

HVDC link between Slovenia and Italy may provide various operational and socio-economic gains. Increased cross-border transmission capacity, more flexible ancillary services, higher reliability and security of power supply, integration of additional renewable energy sources and stronger regional electricity market are only some of the impacts ...

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Thanks to remarkable water levels of the River Sava, our hydroelectric power plants contributed 14% to the GEN Group's total electricity production output in 2022. SEL generates electricity in the following hydroelectric power plants:

A smart grid is an electrical grid that can cost-effectively integrate characteristics and activities of all users connected to the network - producers, consumers and those who are both, in order to ensure economically efficient and sustainable system with low energy losses, high quality and reliability of supply.

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