

# LitPol Link

## Interconnecting grids



ABB Id No: POW0111

### Improves the security of power supply in northeastern Poland and southern Lithuania.

Litgrid AB, the state owned Lithuanian transmission system operator, has awarded ABB a contract to supply a complete turnkey back-to-back converter station for the LitPol power interconnection between Lithuania and Poland. The 500 MW back-to-back HVDC converter station will be built on a greenfield site near the town of Alytus in southern Lithuania. It will help connect the 330 kV Lithuanian grid to the 400 kV Polish grid. A 150-km long 400 kV AC overhead line will link the HVDC station to a substation close to the city of Elk in Poland.

The LitPol Link converter station makes it possible for Lithuania and the Baltic States to connect to the continental European power grid. Together with the NordBalt connection to Sweden, which is currently under construction by ABB, it will improve the security of power supply in the whole area and contribute to the development of an integrated EU electricity market.

ABB will design, engineer, supply and install the converter station including high-voltage equipment, such as power transformers and thyristor valves. The station, which will be prepared for a planned second 500 MW block, is expected to be operational in 2015. Plans call for the LitPol interconnection to ultimately reach a capacity of 1,000 MW.

The connection is expected to significantly strengthen and help develop the transmission systems in northeast Poland and southern Lithuania.

#### Main data:

Commissioning year:	2015
Power rating:	500 MW
No. of poles	2
AC voltage:	Lithuanian side: 330 kV Polish side: 400 kV
DC voltage:	±70 kV
Type of link:	Back-to-back station
Main reason for choosing HVDC:	Interconnecting asynchronous grids
Application:	Interconnecting grids