

What is a smart grid?

Sometimes called the "electronet" or the "energy Internet," smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical grid and deliver electricity more efficiently and reliably.

What is smart grid & enabling technologies?

Smart Grid and Enabling Technologies delivers a complete vision of smart grid technology and applications, including foundational and fundamental technologies, the technology that enables smart grids, the current state of the industry, and future trends in smart energy.

What is the development plan of the Latvian transmission system?

The development plan of the Latvian transmission system also examines the dynamics of renewable energy power plant connections to the electricity transmission network, as well as perspective development projects on the shores of the Baltic Sea region.

Could Latvia-Sweden interconnect with Baltic-Germany?

This includes potential interconnections between Latvia-Sweden and the Baltic-Germany, which in the future could provide opportunities for the export of electricity produced in Latvia. AST, Latvia's TSO has announced plans to invest EUR509.8 million to 2033 to modernise the transmission grid and connect to Europe's network.

Will Latvia be fully prepared for synchronous work with continental Europe?

"...by 2025 the Latvian transmission system will be fully prepared for the start of synchronous work with continental Europe. Disconnecting the Latvian electricity supply system from the network controlled by Russia and Belarus is a basic condition for ensuring Latvia's energy independence," stated Daugulis.

How will TSO funds impact Latvia's transmission network infrastructure?

In a statement issued by AST, the TSO's board member Arnis Daugulis commented on how the funds are intended to drive fundamental changes needed across Latvia's transmission network infrastructure. "...by 2025 the Latvian transmission system will be fully prepared for the start of synchronous work with continental

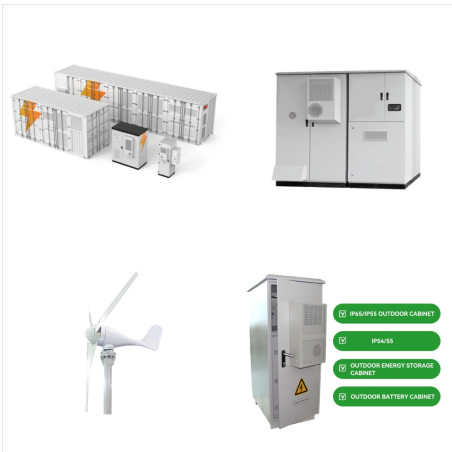
# LATVIA SMART GRID AND ENABLING TECHNOLOGIES



Europe.



A study commissioned by Latvian transmission system operator JSC "Augstsprieguma tīkls" (AST) and carried out by French consultancy Artelys, shows that innovative grid measures can help increase the hosting capacity of ???



Communication is one of enabling technologies of SG. As the number of sensors increase, the amount of data coming to and from the utility increases. Dileep G. A survey on smart grid ???



Introduction to the Smart Grid: Concepts, Technologies and Evolution is essential reading for researchers, engineers and advanced students working in energy engineering. The book ???

# LATVIA SMART GRID AND ENABLING TECHNOLOGIES



This chapter presents the challenges and barriers that the modern smart grids (SGs) are facing from different perspectives. The SG technologies have been introduced in order to ???



Results show that Grid Enhancing Technologies can increase Renewable Energy Sources (RES) hosting capacity by up to 40% and were announced in the following press release. The study, ordered by Latvian ???



Latvian transmission system operator AST (AS Augstsprieguma tīkls) has announced plans to invest ???509.8 million (\$571.4 million) until 2033 to modernise the transmission grid and disconnect from the Russia and Belarus ???