

Article Overview

Estonia offers a diverse range of power supply solutions, from industrial substations and smart energy systems to hydrogen fuel cell generators for commercial, defense, and off-grid applications.

Industrial and High-Voltage Solutions

Companies like Eltech Solutions OU specialize in the design, manufacture, and installation of low, medium, and high-voltage electrical installations, including switchgear, controlgear, and compact substations. Their ES-CAV and ES-OSM substations comply with international standards (IEC 62271-202:2014) and can be configured with medium and low-voltage switchgears, offering modularity and flexibility for industrial and urban applications . Energel Estonia OU has executed large-scale transformer projects, such as 200 MVA installations at 330 kV substations, ensuring reliable electricity supply and strategic reserve capacity across Estonia .

Smart and Low-Power Solutions

For IoT and smart energy applications, GPO-Tech provides 24VDC 1A power supplies and smart energy management systems, supporting Smart Homes, Smart Cities, and electric vehicle charging infrastructure. ElectroAir offers ground power units compatible with aviation and low-power supply units for specialized applications .

Innovative and Green Technologies

PowerUP Energy Technologies develops hydrogen-powered electric generators, suitable for both commercial and defense sectors. These generators are modular, silent, emission-free, and designed for off-grid or critical infrastructure use. Originally engineered for space missions, they have been validated in defense operations, demonstrating reliability under extreme conditions. PowerUP's solutions are expanding internationally, providing backup power, battery extenders, and sustainable energy alternatives .

National Grid and Transmission

The Estonian electricity system, managed by Elering, integrates power plants, distribution networks, and consumers into a single synchronized system connected to the Continental Europe Synchronous Area. Estonia is linked to Latvia via 330 kV lines and to Finland through the EstLink DC connections, enabling cross-border electricity transmission and balance management. Elering ensures system reliability, quality, and compliance with EU energy directives, supporting renewable energy integration and grid modernization .

Summary

Estonia's power supply landscape combines traditional high-voltage infrastructure, smart low-power solutions, and innovative green technologies. Companies like Eltech Solutions and Energel focus on industrial and grid-scale installations, while PowerUP and GPO-Tech provide advanced, sustainable, and modular solutions for commercial, defense, and IoT applications. The national grid, managed by Elering, ensures reliable electricity delivery and supports integration of renewable energy sources, making Estonia a robust and forward-looking market for power supply solutions.

Thus, the Estonian consumer's security of electricity supply has to be analysed considering a more comprehensive picture of

Do I need a power converter for Estonia? When you are visiting Estonia from a different region please ensure the

Our UP series generators and battery capacity extenders are user-friendly, durable electrical power sources that offer entirely green

The power distribution unit (PDU) market in Estonia is growing as the need for efficient and reliable power distribution systems

Based on this, it can be concluded that in 2030, Estonia would need about 800 MW of oil shale units and 250 MW of additional

Discover all relevant Power Supply Manufacturers in Estonia, including ElectroAir and GPO Technologies

Although oil shale covers 70% of Estonia's energy demand and ensures the country's energy security, the government is seeking to

Explore our completed projects in the energy and automation field across the Baltic states. At Viljandi substation in Viljandimaa, two

What types of power plugs and sockets are used in Estonia? What is the best travel adapter for Estonia in

1.1 KEY CONCLUSIONS OF 2020 Based on the analysis in this Security of Supply Report, the security of supply of the electricity

Our switched-mode power supply units are the ideal solution for supplying power to numerous electronic applications. The products,

Estonia's electricity supply is secure this winter, but major shortfalls loom unless new power plants are built soon, TSO

Eesti Energi has completed the procurement for its 26.5MW/51MWh BESS, the first of that scale in Estonia, with LG

Seasonic CORE BC-750 power supply, 80 PLUS Bronze, ATX 3.1, PCIe 5.1, 750W 64.90 EUR 69.90 EUR

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

The paper considers the implementation of an off-grid hybrid power supply as an alternative to the construction of a

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