

## Electricity distribution tirana

Albania's electricity transmission system consists of lines with a voltage level of 110 kV, 150 kV, 220 kV and 400 kV, the respective substations at these voltage levels, and all equipment, the functions of which are included in the power transmission electrical.

The main sources of electricity generation are connected to the main consumption centers by the 220 kV network and further through the 220/110 kV transformation (the 110 kV network supplies all 110 kV distribution substations that mainly represent the load node).

The 110 kV network extends to all urban areas in Albania and supplies 110 kV voltage substations belonging to the distribution system, as well as other customers who are directly connected to this network. Some of the plants, amounting to about 435 MW in production capacity, are connected to the 110 kV network and many others that are under construction are expected to be connected soon at the level of 110 kV and 220 kV.

In this context, it develops the Transmission System in accordance with the long-term requirements of the country's electricity supply, with the development plans of new sources of electricity and coordinates the development of the interconnection network with neighboring countries. OST sh.a. dispatches the Albanian Electricity system through the management of energy flows in the system, taking into account the implementation of all ancillary services related to the stability of the system and exchanges with other neighboring systems.

The technical capacity of the exchange with neighboring countries is sufficient to carry out the necessary exchanges and transits required at any time however in certain periods, there is congestion of transmission capacities in the interconnection.

The transmission system of electricity in Albania is run by the Transmission System Operator (OST), a public company with 100% state ownership. OST was created on 14 July 2004 as a result of the undergoing reforms within the Albanian Power Corporation. It was divided as a vertically organized company into three separate units with the functions of generating, transmitting and distributing of the electricity.

Albanian Power Corporation (KESH) is the public producer and the largest producer of electricity in Albania; KESH manages the main electricity production plants in the country. These assets consist of the Drin Cascade hydropower plants (HEC Fierze, HEC Koman and HEC Vau i Deja) with an installed capacity of 1,350 megawatts (MW), and TEC Vlora with an installed capacity of 98 MW.

The cascade built on the Drin River Basin is the largest in the Balkans both in terms of installed capacity and the size of hydrotechnical works. Having 79% of the production capacity in the country, KESH supplies about

70-75% of the demand for electricity of tariff customers, ensures the coverage of losses in the transmission system, and through balancing energy and auxiliary services guarantees the security of the system Albanian energy.

KESH is not only one of the producers of electricity from the most important hydro sources in the region, but it is also considered a factor with regional influence in terms of the safety of hydro works. (ex. KESH) is a vertically integrated state-owned commercial company and is the main and most important producer of electricity in Albania.

Its foundations started in 1957 with the creation of the General Directorate of Electric Power Plants (DPCE) as the only entity that realized the production, transmission and distribution of electricity to the consumer as well as the exchange with neighboring countries.

The company KESH sh.a., in response to the dynamics of the development of the national legal framework, which aims to harmonize with the legislation of the European Union on energy, has undergone a series of fundamental transformations since 2000, transforming from a vertically integrated company (genesis from 1957), in a society today focused on the production and trading of electricity.

In 1992, DPCE was transformed into the state enterprise Albanian Power Corporation, and in 1995 it received the status of an anonymous company with all of its shares owned by the state.

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