

Electricity distribution uzbekistan

Uzbekistan generated 61.6 terawatt hours (TWh) of electricity in 2019, mostly from natural gas (>85%). The share generated from coal is expected to increase in the future to around 10% (currently around 3%).

Uzbekistan owns a significant part of the installed capacity of the united power system of Central Asia. The specifics of the technological process of production, distribution and consumption of electricity make it necessary to maintain centralized management, with joint-stock companies, such as Thermal Power Plants, National Electric Networks ...

It outlines the physical and operational constraints that require change and, more importantly, the gaps in the legal, regulatory, and institutional framework that are hampering large scaled investments in decarbonisation of Uzbekistan's electricity sector.

Uzbekistan is capable of meeting its energy needs from its own energy resources. Uzbekistan owns a significant part of the installed capacity of the united power system of Central Asia.

The specifics of the technological process of production, distribution and consumption of electricity make it necessary to maintain centralized management, with joint-stock companies, such as Thermal Power Plants, National Electric Networks of Uzbekistan and Regional Electric Networks, under the Ministry.

In 2018, the power plants of Thermal Power Plants JSC generated 56.3 billion kilowatts of electricity and released 7.5 millionGcal of thermal energy. The total installed capacity of power plants in Uzbekistan is more than 14,000 MW.

Transmission of electrical energy from the generating sources of Thermal Power Plants JSC to the distribution and sales enterprises of Regional Electric Networks JSC is carried out by National Electric Networks of Uzbekistan JSC through its main electric grids with a voltage of 220-500 kV and a total cable length of more than 9.7 thousand km.

The supply of electric energy to consumers nationwide is the responsibility of the electricity grids of fourteen territorial distribution and sales enterprises, which operate in each territorial entity as joint-stock companies under the control of Regional Electric Grids JSC. On the balance sheet of each enterprise are power transmission lines with a total length of more than 250 thousand km, and 1,700 substations with an aggregate voltage of up to 110 kV.

Thermal Power Plants JSC, Main Electric Networks of Uzbekistan JSC and Regional Electric Networks JSC are jointly responsible for the design, construction, installation and commissioning works in conjunction with the repair and maintenance of the main equipment and accessories of power plants and grids.

The implementation of measures in the thermal power industry will ensure the introduction of modern energy production technologies based on highly efficient steam-gas and gas-turbine units with the efficiency of power units reaching about 60%.

Also, as part of the transition to a "green" economy, priority in the electric power sector is being given to the establishment of modern solar and wind power plants with a total output of 6.7 GW.

To ensure stable supply of electricity, it is also necessary to build 2.7 thousand km of 220-500 kV transmission lines with the simultaneous construction of 9 new substations, which will require an investment of \$2.4bn.

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