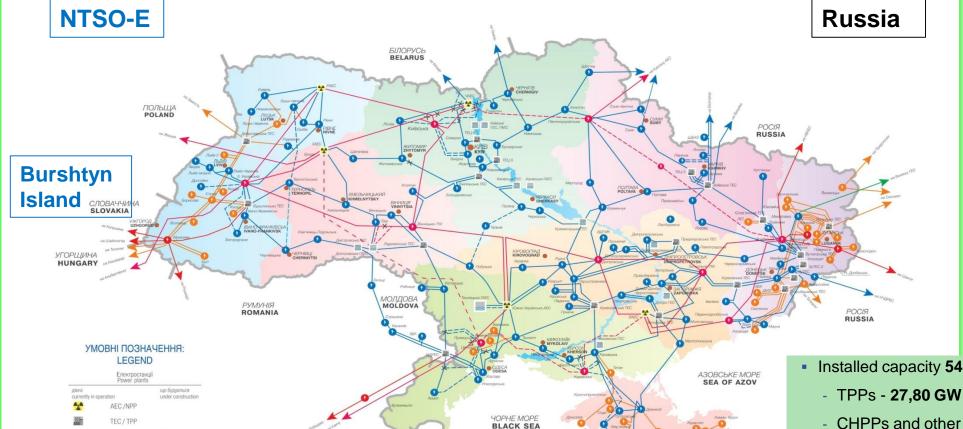


Before 24.02.2022

One of the biggest power systems in Europe





• Electricity Generation was 157,67 TW·h

Consumption, capacity max – 30 GW

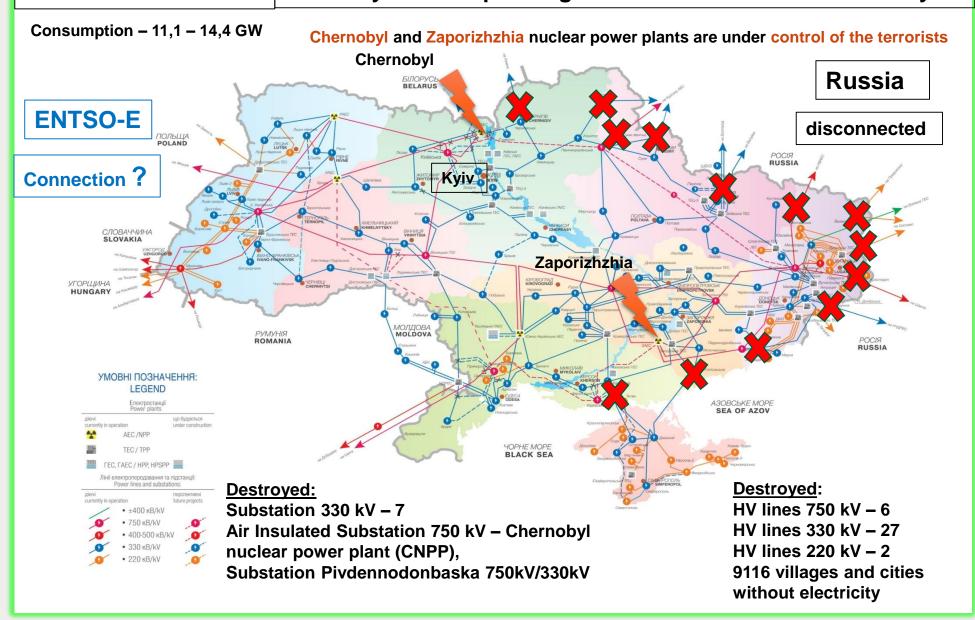
Electricity consumption - 118 billion kW/h

- Installed capacity 54,83 GW

 - CHPPs and other TPPs 6,59 GW
 - NPPs 13,84 GW
 - HPPs, HPSPPs 6,04 GW
 - Renewable energy- 6,93GW

After 24.02.2022

Power system is operating in insolated mode and is destroyed





Power system



Ukrainian power system is one of the largest ones in Europe with capacity of 54 GW including 15 nuclear units, thermal power plants with units of 200,300,800 MW, Hydroelectric power plants on the Dnieper and Dniester rivers and lines with a voltage of 110-750 kV. Since February 24, our power system has been separated from the power system of Russia, and has been working locally, the system operator supports the 50 Hz mode of operation and ensures the stability of the mode despite the destruction of some 110-330 kV power lines.

The Russian army entered the territory of the Chernobyl nuclear power plant where radioactive elements are buried. There is a threat of invasion of Zaporizhzhia NPP where six 1000-MW units are installed. Chernobyl and Zaporizhzhia nuclear power plants are under control of the russian terrorists. Missile strikes on Ukrainian nuclear power plants could destroy our planet and endanger not only Ukraine but also Paris.

In these conditions, the system operator Ukrenergo continues to operate. Ukrhydroenergo, Energoatom, and electric network companies have not stopped working. We understand that energy security is the security of the country. As engineers, my colleagues and I work with our energy companies to support the operation of the power system. **The dozens of the specialists have been killed** until 14th of March.

There is the question of synchronization of the Ukrainian power system with ENTSO-E and we need the support of partners.

Conclusion.

I believe that we, all members of CIGRE, will have many joint projects to improve the reliability of the power system in the "energy transition". Today these words gain a new definition in Ukraine.

This war must be stopped.

This is war of putin's Russia against not only Ukraine, but against the World civilization.

