Ukraine: state of play and last updates
Synchronization with ENTSO-E

6 years of preparation

> €700 mln investment

Agreement on ENTSO-E integration

Ukraine and Moldova joint regulatory bloc

Power units testing (Thermal & Hydro)

Consortium with ENTSO-E members created for system modeling and simulation

TSO (Ukrenergo) certification

Additional research under the Service Contract

Power units testing (Nuclear)

Service Contract with ENTSO-E members Consortium

Isolated mode test

Synchronization with ENTSO-E

Scheduled for 2023

16.03.2022
**Further steps for integration**

**NPC “UKRENERGO” - certified electricity transmission system Operator**

The Ukrainian grid continues to operate synchronously with continental Europe maintaining a frequency of **50 Hz** for **28 days**.

**Main directions for further integration**

- TSO membership to ENTSO-E as an Observer
- Joint auctions for cross-border transmission capacity rights
- Participation in ITC mechanism
- Cross-border exchanges of balancing services and reserves
- ENTSO-E network codes implementation: Operation; Emergency and Restoration
- Market coupling

**Further development of legislation** (implementation of EU regulations)
Martial law challenges and measures taken for Ukrainian Energy System

**Main challenges:**

- Dramatic decline of financial settlements
- Significant reduction of consumption (-30%)
- Rising fuel prices and shortages
- Lack of real possibility of commercial forecasting (incl. due to the chaotic and atypical nature of supply and demand, etc.)

As of 11th April - more than 972 settlements in Ukraine - without electricity (≈ 695,000 consumers).
Almost 296,000 consumers - without gas supply.

**Taken Measures:**

- Implementation of investment programs of network operators is temporarily suspended (funds can be redirected primarily to restore supply).
- Simplified procedure for **connection to the grids** was adopted.
Nuclear Energy of Ukraine

15 nuclear power units

Total installed capacity: 13,835 GW

Covers > 51% of electricity needs

All power units (incl. at Zaporizhzhia NPP) are maintained by Ukrainian personnel and follow the dispatch commands of Ukrainian TSO

IAEA mission to Ukraine (March, 29th) - planning delivery of urgent technical assistance to ensure the safety and security of the nuclear facilities
Thank you for your attention

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