Distribution system operators
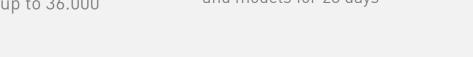## Generation and load forecasts of power grids

SANDY
Energized Analytics

In order to meet the European requirements of a standardized grid model for the calculation of power grid capacity, the „Generation and load data provision methodology" (GLDPM), distribution system operators are required to provide a daily forecast of the grid status in order to pass it on to the transmission system operator. To ensure forecast quality, both changes in the grid switching state as well as grid topologies must be taken into account. Furthermore, the forecast results must be reproducible.

SANDY AI Solution

> Fully automatic provision of day-ahead and 7-day-ahead forecasts for 2,000 transformers under consideration of the individual grid topology

> Forecasts broken down into a total of 17 load types and energy types, thus up to 36.000 forecasts per hour

> Fully automated self-learning model parameter training for best forecast results under changing framework conditions

> Storage of the forecasts, incl. input data and models for 28 days

> **Deployment of operational AI in critical infrastructure with high data throughput**