

# Virtual power plant

Generation forecasts for photovoltaic, wind and biomass plants as well as load forecasts for mandatory load metered facilities (RLM)



The operator of a virtual power plant requires generation and consumption forecasts for every single distributed energy source and customer in their portfolio, to be able to market electricity directly as well as to trade in flexibilities. It must therefore be possible to make flexible, reliable forecasts for the constantly changing portfolio of facilities, with and without a given data history.

## SANDY AI Solution

- › Forecasts for several hundred photovoltaic-, wind- and biomass plants as well as mandatory load metered customer (RLM) are created under consideration of facility-specific production or consumption measurements and site-specific weather forecasts
- › Fully automatic provision of day-ahead and 7-day-ahead forecasts with 15 min resolution
- › Delivery of the best possible individual facility forecast by independent selection of the best respective mathematical model
- › Fully automated self-learning model parameter training for each individual facility

 **Completely managed REST API via Azure API Management**

