Autonomous Power Management
Glossary

Term	Definition
Power Plant	A power generator, capable of providing power output and predictions. Controllable power plants can produce power output according to a schedule. Stochastic power plants produce power according to a stochastic process, e.g., solar power plants and wind power plants produce power according to the weather.
Consumer	A power consumer, capable of providing a load.
AVPP	An Autonomous Virtual Power Plant, responsible for collecting power and load predictions and creating schedules for individual controllable power plants.
Schedule	A pre-determined plan of how much power a controllable power plant has to produce at which point in time.
Weather Forecast	A forecast of the wind speed and solar radiation at a specific area at a specific point in time.
Prediction	A forecast of either load or power consumed or produced at a specific point in time.
Load	The power consumed by power consumers.
Residual Load	The power that has to be produced by controllable power plants, i.e., the load minus the production of stochastic power plants.
Network Frequency	The frequency of the power in the power grid is determined by the difference between power fed into the grid and load taken from the grid. As power grids are synchronised, the frequency is the same in the entire grid. Spinning generators run at this frequency as well.
Power Grid	The network created by power plants, consumers, and other power infrastructure.