mP Energy®

The Ultimate Energy Program for
Demand, Generation & Grid Forecasts

metalogic
better forecasts for sure

Quality through Precision

The European energy market is undergoing constant changes. Liberalization of the markets however provides an excellent opportunity to gain competitive advantages. This requires accurate demand planning, optimally structured procurement, and a high degree of agility compared to current practices in the energy sector.

Deregulation and unbundling often alters the business parameters for suppliers and customers, thus necessitating new contractual frameworks. Identifying the best possible conditions, respective to varying customer profiles and demand situations must be taken into account.

Two components are therefore crucial for the continued economic success of energy companies: First, the ability to react rapidly with a high degree of flexibility in response to changing market conditions, and, second, a thorough risk assessment of all possible scenarios in the short, medium and long term. Reliable, high-quality forecasts form the deciding foundation for achieving success.

mP Energy® – Forecasting Made Easy

- As a self-learning, modeling and forecasting system, **mP Energy** independently identifies the relevant influencing factors for forecasts. **mP Energy** learns according to trained data; no a priori assumptions are necessary.

- In addition to the usual influencing factors for load profile forecasting, such as temperature, type of day, global radiation and season of the year, individual factors and conditions for specific consumers can also be taken into account. The number and composition of the influencing parameters are unlimited for **mP Energy** forecasts.

- Extremely short calculation times enable the forecasts to be updated continuously. Data can be updated to reflect current conditions literally in "real time".

- Ongoing work processes conforming to portfolio management obligations are greatly simplified.

- **mP Energy** assists in the classification of new customers. Even with limited training data, stable results and a comprehensive basis for decision-making needed for administering energy contracts are achievable.
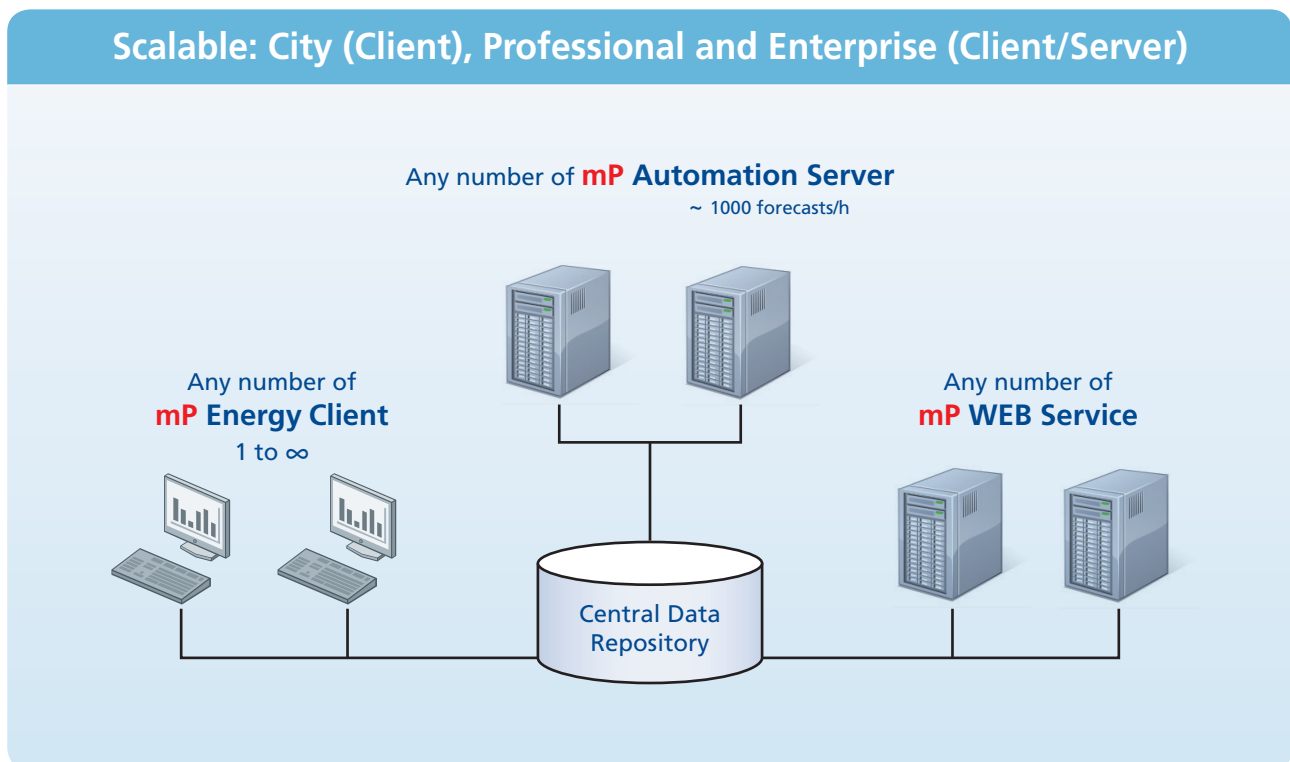
The **mP Automation Server** processes the assigned tasks of data updating, training, forecasting and delivering results. It utilizes multiprocessor systems and is suitable for mass data processing. Depending on the hardware, more than a 1000 forecasts per hour can be processed. By default, the **mP Automation Server** supports servers with four parallel threads. If desired, an unlimited number of threads or additional **mP Automation Servers** can be licensed.

Database: A central component of the system is a relational database in which historic load data, climate data, configuration data and metadata are stored. **mP Energy** supports all common DB systems.

Scalable: City (Client), Professional and Enterprise (Client/Server)

Any number of **mP Automation Server**
~ 1000 forecasts/h

Any number of
mP Energy Client
1 to ∞

Any number of
mP WEB Service

Central Data
Repository

The **mP Energy Windows Client** organizes and delegates, but it also analyzes and forecasts. It is the front end with comprehensive functionality. The software can be installed on as many user PCs as desired. Licensing is based on the number of users simultaneously logged onto the system (Concurrent Users).

The **mP WEB Service** receives tasks and data from third party systems and spools these to the **mP Automation Server**. Its task is not calculation-intensive; generally one instance is enough. Licensing occurs according to the number of installed instances.

mP Energy® – Better Results Quicker.

mP Energy produces short, middle, or long-term forecasts according to expected electricity, gas or district heating demands. It's simple and intuitive operation enables users to create exact and valid forecasts within minutes.

Feature Highlights

- High level of forecast accuracy with minimum effort
- Extremely powerful – more than 1,000 forecasts per hour possible
- Simple and intuitive operation
- Uses four different computational methods for increased accuracy and decision-making
- Can be easily integrated, is scalable, fully automatable and supports individual client case handling
- Numerous references by well-known companies in the energy industry, at home and abroad
- Available in three different Edition levels (City, Professional, Enterprise)
- Excellent price-performance ratio; also available for rent or as "Forecasting-as-a-Service"
- Options: **metaScript Master, meta Assessment, mP Simulator, mP TimeSeries, mP Optimizer**, etc.

Available through authorized partners

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