

Meteodat and Energy



Our **products** are founded on the bedrock of Meteodat's engineering expertise and supported by a team that has an extensive background in the fields of energy resources, meteorology and hydrology. Our customers are guaranteed an improvement in their profitability and stability.

Meteodat GmbH is a spin-off company of the Swiss Federal Institute of Technology (ETH), Zurich. With this educational and professional background, the members of Meteodat staff possess an in-depth knowledge of the energy business. For more than 15 years, Meteodat has been conducting comprehensive studies of the dependence of hydrological and meteorological characteristics on energy production.

In addition, Meteodat's staff has acquired sound insight into operational issues relating to production, distribution and trading of electrical energy while being in intense collaboration with the following companies:

- AXPO
- ATEL
- Mattmark
- Linth-Limmern
- Vorderrhein
- Sarganserland
- ILL-Werke
- AEK
- Hamburgische Electricitäts-Werke

Energy demand forecasts

- Electrical load forecasts per region for the next few days
- The influence of meteorological conditions on electrical energy consumption
- The influence of meteorological conditions on gas and oil consumption

Energy production forecasts

- The influence of meteorological and hydrological conditions on the production capacity of electrical energy

Energy Price Forecast

- Forecast of SWEP
- Modelling of EEX/LPX Indices

Runoff forecasts for dammed lakes and rivers

- Seasonal forecasts for large rivers and dammed lakes
- Short-term forecasts for rivers and dammed lakes

Weather derivatives

- Consultancy
- Tools: HDD-Tracker, Total Exposure Monitor
- Courses and Training

Hydropower Management

- Concepts for operational management of hydroelectric power plants
- Concepts for optimal production schemes of peak energy

Riskmanagement Tools

- HDD-Tracker
- Total Exposure Monitor

Custom-tailored studies

- Market liberalization
- Structure of the Swiss energy market
- Pricing of energy / weather derivatives
- Other energy topics

Meteodat GmbH is convinced of the ever-increasing importance of Swiss hydroelectric power plants. The possibility to deliver – up to the minute – huge amounts of peak energy will be of crucial importance in a liberalized European energy market. This view is strongly supported in a joint paper by Meteodat and the «grand old man» of Swiss energy, Dr. Michael Kohn.



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