

ENERGY TRADING REAL TIME,

SHORT AND MEDIUM-TERM OPTIMISATION

THROUGH INNOVATIVE  
WEATHER FORECASTING  
SOLUTIONS

## YOUR CHALLENGES



ANALYSING THE INFLUENCE OF WEATHER ON THE GAS AND ELECTRICITY TRADE



OPTIMUM ESTIMATION OF ELECTRICITY PRODUCTION FROM RENEWABLE ENERGY SOURCES



DIRECT MARKETING OF RENEWABLE ENERGY



OPTIMISATION OF SPOT MARKET FORECASTS



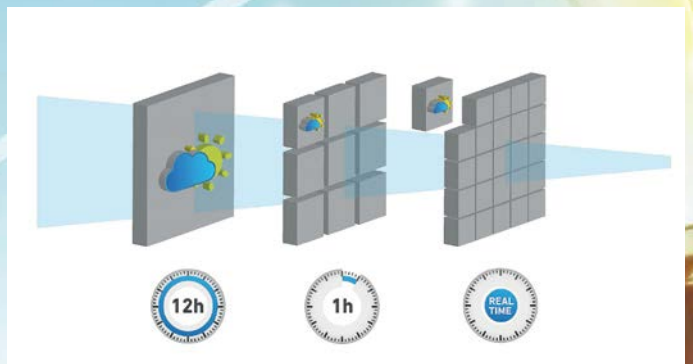
DEVELOPMENT OF NEW TRADING STRATEGIES

## OUR SOLUTIONS



## RENEWABLE ENERGY

- Highly precise wind, solar and hydropower forecasts
- One-of-a-kind feed-in management solutions
- Long-term comparison of wind and solar feed-in



## WEATHER DATA

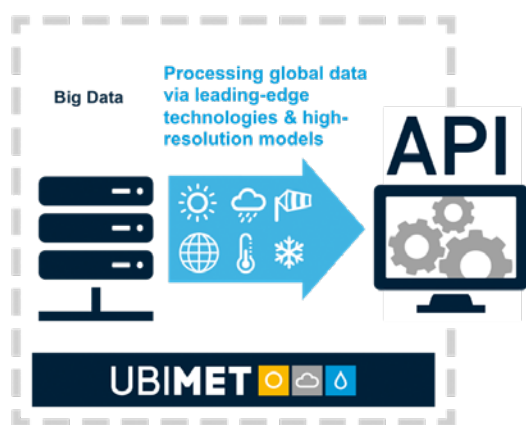
- Historical global measurements and climate time series
- Long-term meteorological energy re-analysis data covering many years
- Up-to-date measurements, satellite and radar images
- Concise lightning tracking system powered by nowcast
- Weather forecasts for locations, countries, grid regions and densely populated areas
- Precise weather analyses in real time (HYDRA)
- Dedicated, highly precise short-term weather model (RACE)
- Population weighted energy trading forecasts



## WEATHER COCKPIT®

- Online representation of weather information
- Renewable energy and feed-in management forecasts
- Weather forecasts for locations and countries
- Real time weather analyses and model forecasts
- Live weather data (satellite and radar images, lightning)

- ✓ Pricing models: Optimisation thanks to highly precise weather, wind and solar forecasts
- ✓ Direct marketing: Minimisation of compensation energy costs thanks to highly precise portfolio forecasts (neural networks)
- ✓ Spot market forecasts: Optimisation thanks to high frequency forecast updates
- ✓ Speculative trade: Anticipation of price fluctuations thanks to innovative feed-in management solutions
- ✓ Data preparation for traders: well-structured online depiction in the Weather Cockpit®



## DATA

- Unique and reliable data supply
- Via web interface or data feed
- All standard delivery options (incl. sFTP, API, e-mail)
- Flexible formats (incl. CSV, XML etc.)

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## ABOUT UBIMET

UBIMET is the leading commercial provider of highly precise meteorological services and severe weather warnings. The global company is headquartered in Vienna, Austria and has offices in Karlsruhe, Melbourne, Munich, New York and Zurich employing 200 staff from 25 nations. UBIMET provides high-quality meteorological data, forecasts and alerts enabling weather-dependent industries around the globe to increase safety and efficiency.

UBIMET's expertise and reliable weather solutions have convinced customers from industries such as energy, aviation and rail, media as well as event organisers.

The company was founded as a start-up by Michael Fassnauer and Manfred Spatzierer in Vienna in 2004. The two founders, driven by a passion for meteorology, are still the driving force behind the company today.

[www.ubimet.com](http://www.ubimet.com)

To accommodate the high demands of the energy industry, UBIMET offers:

### INDUSTRY-SPECIFIC KNOW-HOW

- A center of excellence with 20 experts dedicated entirely to the energy business in Karlsruhe
- Energy-specific know-how and expertise of 15 years
- Investment of 25% of annual revenue in international research projects in the fields of energy & mobility, smart cities, and disaster management

### HIGH PRECISION METEOROLOGY

- One of the world's largest weather databases (weather stations, satellites, radar, lightning)
- Access to the world's leading and global weather models (incl. ECMWF and GFS)
- Own, high resolution weather-analytical tool HYDRA (resolution up to 100m)\*
- Own, high resolution local weather model RACE (resolution up to 100m)
- Own 24/7 severe weather centre
- Highly precise wind and solar power production forecasts
- Protected method for feed-in management and volume forecasts\*\*

### LEADING EDGE IT INFRASTRUCTURE

- Four global data centers processing more than 100 TB of data per day (Big Data)
- Intuitive and state-of-the-art platform solutions with our Weather Cockpit©
- Full integration of weather data into customer IT systems via secure data transmission and sFTP-Server and leading edge API-solutions

*\* The invention, on which our solutions are based, has been registered for patent (European patent application No. 17450001.7 as well as US Patent Application No. 15/860.189) by UBIMET.*

*\*\* The invention was protected as utility model (DE 20 2017 100 343.4) and has been filed for patent (DE 10 2017 101 265.6, European patent application No. 18152474.5 as well as US patent application No. 15/879,326) by UBIMET.*

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