

TEMPES

EWC
Weather Solutions



DATA FOR:

- Cross-regional and local power providers
- Energy traders (electricity & gas)
- Grid operators (electricity & gas)
- Power plant operators (fossil fuels)
- Wind energy experts and project developers
- Power plant operators in the renewables sector

REAL-TIME DATA

Meteorological data of the last 24 hours and previous days worldwide

Where is a storm brewing? Where are cold fronts developing? EWC's Real-Time Data provide prompt meteorological data for temperature, wind, precipitation and cloud cover of the last 24 hours and previous days. Data for Germany are supplied at hourly and daily intervals, Europe-wide and worldwide data are given at 1 to 6-hourly or daily intervals.

Your benefits from the Real-Time Data:

- Optimal estimation of current meteorological conditions
- Flexible selection of weather stations
- Monitoring tool for energy controlling, thus enhancing the efficiency of existing processes
- Opportunity for customers to establish their own meteorological database and make ongoing quality comparisons using EWC forecasts

Your service benefits with EWC:

- Fast and customised processing of your requests
- Industry-specific consultancy
- Outstanding price/performance ratio
- Secure and reliable service is guaranteed by the use of flexible and continuous data interfaces
- The Real-Time Data are easily integrated into all EDM (energy data management) systems

EWC uses the following data:

- Meteorological data are exclusively from official national weather offices operating to WMO standards (World Meteorological Organization)
- Germany-wide hourly readings from over 1,000 weather stations of Deutscher Wetterdienst
- Europe-wide readings from over 2,500 weather stations at 1 – 6-hourly intervals
- Global readings from over 17,000 weather stations



Our standard data processing:

- Hourly and daily data
- Condensed data: means, totals, frequency distributions, correlations, duration statistics etc.
- All meteorological parameters relevant to the energy sector and indicators derived from them (e.g. wind chill factor, effective cloud cover, degree day figures)
- Optional flagging of non-representative locations, e.g. hilltops or coastal locations, as well as data without WMO-standard verification
- Maximum prediction quality achieved by regular maintenance and documented changes in compliance with WMO guidelines

Hourly data	Daily data
Air temperature (°C)	Maximum, minimum, mean temperature (°C)
Precipitation (l/m ²)	Precipitation (l/m ²)
Snow depth (cm)	Snow depth (cm)
Cloud cover (x/8)	Mean cloud cover (x/8)
Global radiation (kJ/m ²)	Total global radiation (kJ/m ²)
Sunshine duration (min)	Sunshine duration (h)
Mean wind speed (m/s)	Mean wind speed (m/s)
Max. gust speed (m/s)	Max. gust speed (m/s)
Wind direction (degrees)	Wind direction (degrees)

Overview of hourly and daily data
Further data on request

Customised and flexible data provision:

- Visualisation: spreadsheet
- Format: TXT, CSV, EXCEL, XML
- Supplied as: e-mail, SFTP, pull and push, Web services, ISDN, P2P

The Real-Time Data can be combined with:



Historical Measurement Time Series
Global hourly, daily, monthly and climate data

Date	Time	Temperature (°C)	Air pressure (hPa)	Humidity (%)
15.01.11	08:00	8.8	1024.1	90
15.01.11	09:00	8.8	1024.6	91
15.01.11	10:00	9.2	1025.1	90
15.01.11	11:00	10.1	1025.5	84
15.01.11	12:00	11.4	1026	77
15.01.11	13:00	12.2	1026.2	73
15.01.11	14:00	12.4	1026.3	72
15.01.11	15:00	12.2	1026.2	73
15.01.11	16:00	11.7	1026.3	75
15.01.11	17:00	10.8	1026.4	78
15.01.11	18:00	9.6	1026.7	83
15.01.11	19:00	8.6	1027	87
15.01.11	20:00	8.0	1027.3	89

Weather station: Mannheim
Excerpt from a temperature time series

EWC Weather Consult GmbH

Enhancing efficiency, making risks calculable and minimising them, saving costs – all these energy market goals can be achieved with the help of EWC’s meteorological data solutions and services. We provide high-quality global location- and time-specific forecasts, weather measurement data, simulations and analyses for customers in the energy sector. We cater to our customers’ individual needs by offering a range of categories of standard products and custom solutions. For information on our extensive portfolio of products and solutions, visit www.weather-consult.com.