

## 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

# HISTORICAL MEASUREMENT TIME SERIES

## Global hourly, daily, monthly and climate data

Do you need to know how the weather has impacted on your business? EWC supplies customised Historical Measurement Time Series with hourly, daily, monthly and climate data to enable customers to evaluate past meteorological and climate conditions worldwide.

### Your benefits from the Historical Time Series:

- Optimal evaluation of past meteorological conditions
- Flexible selection of weather stations
- Comparison with mean climate patterns
- The Historical Measurement Time Series can be used to fine-tune your own expert or forecast systems

### 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 Historical Measurement Time Series are easily integrated into all EDM (energy data management) systems

### EWC uses the following database:

- 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
- Germany-wide daily readings from over 45 climate stations of Deutscher Wetterdienst for the past 60 years
- 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:

- Global hourly, daily, monthly and climate 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 features:

- On request, EWC can fill in data gaps with a global physical meteorological model (DMO – Direct Model Output)
- Flagging of non-representative locations, e.g. hilltops or coastal locations, and data without WMO-standard verification

## 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 Historical Measurement Time Series can be combined with:



### Real-Time Data

Meteorological data of the last 24 hours and previous days worldwide

Hourly data	Daily data	Monthly data	Climate data
Air temperature (°C)	Maximum, minimum, mean temperature (°C)	Mean temperature (°C)	Mean temperature (°C)
Precipitation (l/m <sup>2</sup> )	Precipitation (l/m <sup>2</sup> )	Total precipitation (l/m <sup>2</sup> )	Mean total precipitation (l/m <sup>2</sup> )
Snow depth (cm)	Snow depth (cm)	Snow depth (cm)	Mean snowfall (cm)
Cloud cover (x/8)	Mean cloud cover (x/8)	Mean cloud cover (x/8)	Mean cloud cover (x/8)
Global radiation (kJ/m <sup>2</sup> )	Total global radiation (kJ/m <sup>2</sup> )	Total global radiation (kJ/m <sup>2</sup> )	Mean total global radiation (kJ/m <sup>2</sup> )
Sunshine duration (min)	Sunshine duration (h)	Sunshine duration (h)	Mean sunshine duration (h)
Mean wind speed (m/s)	Mean wind speed (m/s)	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)	Mean wind direction (degrees)	Mean wind direction (degrees)

Overview of global hourly, daily, monthly and climate data. Further data on request

## 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](http://www.weather-consult.com).