

## **DATASET DESCRIPTION**

### ***Climate factors (KF) for energy consumption certificates***

#### **Version v22.3**

**Cite data set as:** Climate factors (KF) for energy consumption certificates, Version v22.3

**Dataset-ID:** urn:x-wmo:md:de.dwd.cdc::derivgermany-techn-monthly-climate\_correction\_factor-recent

#### **ABSTRACT**

This document describes the monthly climate factors (KF), calculates area-wide for all of Germany and provides location-related climate factors for each delivery zip code. This results in over 8,200 climate factors. The climate factors of the DWD correspond to the specifications of the announcements. For consumption certificates newly issued from 01.05.2014 onwards, the climate factors are provided for the reference location Potsdam (instead of Würzburg).

The regulations for the implementation of weather adjustment for energy consumption certificates can be found in the Energy Saving Info Portal of the Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR / see right under "Further Information").

The influence of weather and climate on energy consumption is recorded using a so-called climate factor, which takes into account both the temperature conditions during a calculation period and the climatic conditions in Germany. By applying the climate factor, the energy consumption characteristics of different calculation periods and of buildings in different climatic regions of Germany can be compared (at least roughly).

With the EnEV 2013 the so-called reference climate refers to the test reference years of the reference location Potsdam (TRY 2011, see right under "Further information"), which were calculated by the DWD in 2011. For consumption certificates newly issued from 01.05.2014 onwards, the climate factors are therefore provided for the new reference location Potsdam (instead of Würzburg).

The data are available in EXCEL format and -for use in calculation software- as XML file. The update will take place about 6 weeks after the end of each month.

For the purpose of traceability of old calculations, the previous climate factors based on the old reference location Würzburg, which were used for energy consumption certificates based on the EnEV 2009, remain available. Request for the data: [klima.essen@dwd.de](mailto:klima.essen@dwd.de).

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#### **DATASET DESCRIPTION**

**Temporal coverage** 2019-01-01 -- ...

**Spatial coverage** Germany

**Quality Information**

## DATA ORIGIN

The measurement data used for the calculation of the climate factors / degree days originate from the station measurement networks of the German Weather Service. They are regularly imported and archived in the central specialized database of the DWD, see Behrendt et al., 2011, and Kaspar et al., 2013. For more detailed information on the operational observation and measurement procedures, see the Observer Manual "VuB 3 Beobachterhandbuch (DWD, 2014a)", the Technician Manual "VuB 3 Technikerhandbuch (DWD, 2014b)" and the Weather Key Manual "VuB 2 Wetterschlüsselhandbuch".

## RESOURCE MAINTENANCE

The update takes place about 6 weeks after the end of each month.

## VALIDATION AND UNCERTAINTY ESTIMATE

For the purpose of traceability of old calculations, the climate factors based on the old reference site in Würzburg, which were used for energy consumption certificates based on the EnEV 2009, remain available. Request for the data: klima.essen@dwd.de.

## UNCERTAINTIES

The stations are nowadays selected and operated according to WMO guidelines.

## ADDITIONAL INFORMATION

For the purpose of reproducibility of old calculations, the previous climate factors based on the old reference location Würzburg, which were used for energy consumption certificates based on the EnEV 2009, remain available.

Data request: klima.essen@dwd.de.

## LITERATURE

Halbig, G. und J. Namyslo (2014): Neue Witterungsbereinigung für Energieausweise auf der Basis des Referenzklimas Potsdam. EneV aktuell, IV, 2014, S. 11-13.

## COPYRIGHT

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## REVISION HISTORY

This document is maintained by Deutscher Wetterdienst, DWD - Regionales Klimabüro Essen, last edited at 2023-01-17.