DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

FICHTNER GmbH & Co. KG
Sarweystraße 3, 70191 Stuttgart

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

Determination of the wind potential and energy yields of on- and offshore wind energy installations including the assessment of wind input data; Determination of the site quality; Evaluation and analysis of wind input data (from wind met mast/meteorological met mast, SoDAR, LiDAR) for the determination of the wind potential; Post-construction energy yield assessments for on- and offshore wind energy installations including the analysis and evaluation of historical wind turbine production data; Determination of the reference yield of wind turbine generators

The accreditation certificate shall only apply in connection with the notice of accreditation of 18.02.2021 with the accreditation number D-PL-21362-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the certificate: **D-PL-21362-01-00**

Berlin, 18.02.2021

Dr Heike Manke
Head of Division

The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH
https://www.dakks.de/en/content/accredited-bodies-dakks.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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Annex to the Accreditation Certificate D-PL-21362-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **18.02.2021**

Date of issue: 18.02.2021

Holder of certificate:

FICHTNER GmbH & Co. KG
Sarweystraße 3, 70191 Stuttgart

Tests in the fields:

Determination of the wind potential and energy yields of on- and offshore wind energy installations including the assessment of wind input data; Determination of the site quality; Evaluation and analysis of wind input data (from wind met mast/meteorological met mast, SoDAR, LiDAR) for the determination of the wind potential; Post-construction energy yield assessments for on- and offshore wind energy installations including the analysis and evaluation of historical wind turbine production data; Determination of the reference yield of wind turbine generators

Within the scope of accreditation marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates.
The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

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DAkkS Deutsche Akkreditierungsstelle

1 Determination of the wind potential and energy yields of on- and offshore wind energy installations including the assessment of wind input data

IEC 61400-1 * Ed. 4.0 2019-02	Wind energy generation systems - Part 1: Design requirements
IEC 61400-12-1 * Ed. 2.0 2017-03	Wind energy generation systems - Part 12-1: Power performance measurements of electricity producing wind turbines
FGW TR 6, Rev. 10 * 2017-10	Determination of wind potential and energy yields
MEASNET 2016-04	Evaluation of site-specific wind conditions, version 2

2 Determination of the site quality

FGW TR 6, Rev. 10 * Annex C 2017-10	Determining the site quality for commissioning in accordance with EEG 2017

3 Evaluation and analysis of wind input data (from wind met mast/meteorological met mast, SoDAR, LiDAR) for the determination of the wind potential

IEC 61400-1 * Ed. 4.0 2019-02	Wind energy generation systems - Part 1: Design requirements
IEC 61400-12-1 * Ed. 2.0 2017-03	Wind energy generation systems - Part 12-1: Power performance measurements of electricity producing wind turbines
FGW TR 6, Rev. 10 * 2017-10	Determination of wind potential and energy yields
MEASNET 2016-04	Evaluation of site-specific wind conditions, version 2

4 Post-construction energy yield assessments for on- and offshore wind energy installations including the analysis and evaluation of historical wind turbine production data

IEC 61400-26-1 * Ed. 1.0 2019-05	Wind turbines – Part 26-1: Availability of wind energy generation systems
FGW TR 6, Rev. 10 * 2017-10	Determination of wind potential and energy yields

5 Determination of the reference yield of wind turbine generators

FGW TR Teil 5, Rev. 8 * 2020-03	Determination and application of the reference yields

Abbreviations used:

FGW	German Federation of Wind Energy and other Decentralized Energies e.V.
IEC	International Electrotechnical Commission
MEASNET	Measuring Network of Wind Energy Institutes