

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17580-01 according to DIN EN ISO/IEC 17025:2005

Period of validity: 23.02.2016 to 19.08.2019

Date of issue: 18.03.2016

Holder of certificate:

anemos Gesellschaft für Umweltmeteorologie mbH
Böhmsholzer Weg 3, 21391 Reppenstedt, Germany

Tests in the fields:

Determination of the wind potential of wind turbine sites; Calculation of the expected mean annual energy yield; Performance, evaluation and analysis of wind measurements with anemometers, SoDAR and LiDAR remote sensing devices; Determination of the 60% reference certificate, according to the German Renewable Energy Sources Act (EEG); Calculation of the turbulence intensity; Calculation of the shadow impact of wind turbines; Prediction of the sound immission of wind turbines; Compilation of wind atlases and determination of the wind and energy yield indices; Preparation of revenue reports; Calculation of market value atlases

Abbreviations used: see last page

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.

1. Determination of the wind potential of wind turbine sites; Performance, evaluation and analysis of wind measurements with anemometers, SoDAR and LiDAR devices; Determination of the 60%-reference certificate

FGW TR6, Rev. 9 *
2014-09

Determination of wind potential and energy yields

with reference to:

Gesetz zur Neuregelung des Rechts der Erneuerbaren Energien im Stromrecht (Erneuerbare-Energien-Gesetz - EEG, 2009)

IEC 61400-12-01 *
2005-12

Wind turbines – part 12-1:
Measurement of the power performance of a wind turbine

IEC 61400-01 *
2005-08

Wind turbines – Part 1: design requirements

AA WAsP
Rev.09, 2015-05

Work instruction for the preparation of WAsP site assessment reports

AA LZB Ertragsdaten-D5km-
EU20km-MERRA-ERA-Interim
Rev.10, 2015-03

Work instruction of the long-term correlation of energy yield data with the anemos wind indices D-5km,

AA IWET
Rev.05, 2014-01

Work instruction for the long-term correlation of energy yield data with IWET and ConWX-data

AA Referenznachweis
Rev.02, 2011-11

Work instruction for the determination of the 60%-reference certificate according to EEG

AA Durchführung von WM,
Rev.06, 2015-06

Work instruction for performing wind measurements

AA Auswertung von WM,
Rev.13, 2015-05

Work instruction for the analysis of wind measurement data from meteorological masts

with reference to:

*IEC 61400-1 Wind turbines – Part 1: Design requirements
2014-04*

2. Calculation of the turbulence intensity

AA Turbulenzintensität Rev.10, 2015-06	Work instruction for calculating the natural turbulence intensity
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3. Determination of the shadow impact of wind turbines

DIN ISO 9613-2* 1999-10	Abatement of sound propagation outdoors, Part 2: general method of calculation
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AA Schall Rev.06, 2015-06	Work instruction for calculating the sound immission
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4. Sound immission estimation

DIN ISO 9613-2* 1999-10	Abatement of sound propagation outdoors, Part 2: general method of calculation
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AA Schall Rev.06, 2015-06	Work instruction for calculating the sound immission
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5. Wind atlases and wind and energy yield indices

AA anemos Windatlas, Rev.01, 2015-08	Work instruction for calculating the anemos wind atlases
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AA anemos Wind- und Ertragsindex, Rev.03, 2015-08	Work instruction for calculating the anemos wind and energy yield indices
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6. Revenue Reports

AA Erlösgutachten Rev.01, 2015-10	Work instruction for the preparation of revenue reports
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7. Market value atlases

AA Marktwertatlas Rev.01, 2015-10	Work instruction for calculating market value atlases
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Abbreviations used:

AA	In house method of anemos Gesellschaft für Umweltmeteorologie mbH
BWE	Federal Wind Energy Association
DIN	German Institute for Standardization
FGW	Federation of German Windpower and other Renewable Energies
TR	Technical guideline
WASP	Wind atlas Analysis and Application Program