Hellenic Accreditation System

Annex F1/15 to the Certificate No. **647**-5

SCOPE of ACCREDITATION

of the

Laboratory for Wind Turbine Testing

of the

Centre for Renewable Energy Sources and Saving (CRES)

for the performance of tests

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Wind Measurements		
For the estimation of Wind Potential intended for the design of wind-driven electricity generators	Wind speed (m/s)	IEC 61400-12-1: 2022 § 7.2.1, 7.2.2, 7.2.3 & 7.2.4 in combination with the requirements of the standard IEC 61400-50-1: 2022
	Wind direction (deg)	IEC 61400-12-1:2022 §7.3 in combination with the requirements of the standard IEC 61400-50-1: 2022
Wind Turbine Testing		
Wind Turbine	Power Performance Measurements of Wind Turbines	• IEC 61400-12-1: 2022 • MEASNET Power Performance, Ver.5/ 2009 • FGW TEIL 2, Rev 17 (2018) • Internal Method TPR-01
	Wind Turbine Loads Measurements	• IEC/TS 61400-13:2015 • Internal Method TPR-02
	Acoustic Noise Measurements of Wind Turbines	• IEC 61400-11:2012 +A1:2018 • MEASNET Acoustic Noise, Ver.3/ 2011 • FGW TEIL 1 REV.18 (2008) • Internal Method TPR-03
	Power Quality Measurements of Wind Turbines	• IEC 61400-21-1:2019 • MEASNET Electrical Characteristics, Ver.1/ 2019 • Internal Method TPR-05

Materials / Products to be tested	Types of test / Properties to be measured	Applied methods / Techniques to be used
Wind Turbine (cont.)	Duration test of small wind turbines	• §13.4, IEC-61400-2: 2013
	Noise Emission from a Wind Turbine at the noise receptor location	• IEC 61400-11:2012 +A1:2018 • ELOT/CRES TE-81, OE-5 (1999) • Internal Method TPR-06
Meteorological measurements*		
	Measurement of air temperature in open field	Internal method TPR-04
	Measurement of relative humidity in open field	Internal method TPR-04
	Measurement of atmospheric pressure	Internal method TPR-04
Mechanical Testing		
Composite Materials	Determination of Tension and Compressive Material Properties (Applied force capacity -250 kN… +250 kN)	• ELOT EN ISO 527-1: 2012 • EN ISO 527-4: 1997 • EN ISO 527-5: 2009 • ISO 14126:1999 • ISO 14129:1997 • Internal Method TPR-09

*supplementary meteorological measurements

Site of assessment: **Permanent laboratory premises, 19th km Marathonos Ave., GR-190 09 Pikermi, Attiki, Greece, installation field of meteorological mast and installation field of wind turbine.**

Approved Signatories: **N. Stefanatos, F. Mouzakis, D. Foussekis, D. Theofilogiannakos, F. Kokkalidis, I. Karga, P. Papadopoulos, M. Bregiannis, N. Drougas.**

This Scope of Accreditation replaces the previous one dated 30.11.2022.
The Accreditation Certificate No. **647**-5, to ELOT EN ISO/IEC 17025:2017, is valid until 29.12.2026.

Athens, 21.01.2025

Konstantinou Evangelos Apostolos
CEO of ESYD