

## WindGuard Certification provides retrofit for FRT test device

### Technology upgrade and integration in one space-saving container

**Varel, 2022-08-18:** In the field of test equipment manufacturing, WindGuard Certification recently successfully completed a comprehensive reference project with support from Langer E-Technik: On customer behalf, the two companies from Varel, Germany, retrofitted an existing test device for Fault-Ride-Through (FRT) tests on power generating units such as wind energy turbines and solar plants, energy storage units and combustion engines.

The test equipment enables low voltage and high voltage ride-through (LVRT and HVRT) tests to prove dynamic grid support according to current guidelines such as FGW TR 3 and IEC 61400-21-1 as well as international standards. For this purpose, fault conditions in the public grid are simulated, and the behaviour of the power generating unit is documented.

“Our customer commissioned us to combine two existing test containers for under and over voltage tests into one container, to implement latest technology and to prepare it for the next generation of power generating units with a connectable output of 30 MVA,” explains Damian Slowinski, Head of Test Laboratory and Test Equipment Manufacturing. “This solution fits into a 40’ container and significantly reduces effort and cost of transport and set-up at the site.”

With its own test laboratory accredited by the German Accreditation Body (DAkKS) according to DIN EN ISO/IEC 17025, WindGuard Certification is also well acquainted with the user perspective: “Our own daily work experience with test equipment naturally contributes to the development of new concepts,” says Damian Slowinski, “this special know-how particularly distinguishes us and perfectly supplements our many years of extensive expertise in the construction of test equipment.”

“This retrofit is an excellent addition to our reference portfolio in the area of test equipment manufacturing,” summarises Lars Weigel, Managing Director of WindGuard Certification, “we have thus proven that we can also enhance existing test equipment to create a future-proof solution.” Over the past few years, WindGuard Certification has already built five new test containers for various international requirements, has led a construction project and has also developed a mobile low voltage test device for its own test laboratory.

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## PRESS RELEASE

**Photo:**

One-Container-Solution for FRT Testing

**Caption:**

WindGuard Certification and Langer E-Technik have accommodated the entire equipment for performing Fault-Ride-Through (FRT) tests on power generating units in one 40' container.

Photo: Langer E-Technik

### WindGuard Certification – Tailored Certification Solutions

WindGuard Certification is an independent DIN EN ISO/IEC 17065 accredited certification body for wind turbines and other renewable energies. Its comprehensive range of testing and certification services includes, among others, the certification of electrical characteristics, power generating units (PGU), components and power generating plants (PGP), type and project certification, site specific design assessment (SSDA) as well as the certification for lifetime extension. Additionally, WindGuard Certification operates an accredited test laboratory in accordance with DIN EN ISO/IEC 17025 and is accredited for measurements according to FGW TR 3, IEC 61400-21-1, VDE 0214-100 as well as NTS, CEA and CEI 0-16. WindGuard Certification receives national and international recognition, is a member of IECRE and numerous expert committees for the development of certification and testing standards, and is recognised by the German Federal Maritime and Hydrographic Agency (BSH) as a certification body for offshore projects.

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