Press Release

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windtest grevenbroich expands its range of FRT measurement services

(Grevenbroich, May 15, 2025) – With the commissioning of a new medium-voltage fault ride-through tester (MV-FRT tester), windtest grevenbroich gmbh is expanding its range of services for testing the electrical properties of different electrical generation units to stabilize the power grids of tomorrow.

"With our unique MV-FRT container, we are using state-of-the-art technology that enables us to demonstrate grid stability properties at the highest level and to test different electrical generation units in accordance with the latest technical standards. We are very proud of this!" explains Monika Krämer, Managing Director of windtest grevenbroich gmbh.

The new MV-FRT tester is housed in a compact 40-foot ISO container and enables flexible and standard-compliant testing of generation units such as wind turbines, combustion engines, storage systems and photovoltaic inverters. windtest grevenbroich is now one of the few providers that can flexibly and reliably test generation units of various power classes, even over 20 MW.

Grid faults such as undervoltage and overvoltage (UVRT/OVRT), vector jumps and multi-dips can be simulated efficiently – without the need for complex conversions. Thanks to extensive improvements such as doubled switching elements, increased impedance and an optimized architecture, the fourth generation of the mobile test system meets the highest requirements for complex network environments. Tests are carried out in accordance with FGW TR3, IEC 61400-21-1, among others, and phase-related switching, which is so important for manufacturers and simulation, is also possible.

The new MV-FRT tester also combines state-of-the-art technology with comprehensive safety functions: Equipped with protective devices, an emergency stop chain, door monitoring, video monitoring, temperature sensors and a thermal imaging camera, it guarantees maximum safety during testing and ensures that all processes remain traceable and controlled.

The new test system was developed and implemented in close cooperation with the test equipment manufacturer EESYST and Managing Director Rainer Klosse, who has been a reliable partner of windtest grevenbroich for many years. With this expansion, windtest grevenbroich is strengthening its role as an independent measurement service provider and supporting manufacturers, grid operators and project developers in the safe integration of modern generation units into the electricity grids of tomorrow.

windtest grevenbroich gmbh

offers a wide range of services in the field of renewable energies since 1996. These include measurements in the areas of power, loads, electrical properties and noise as well as site assessments with regard to site quality, wind, yield or shadow impact. The company's employees advise developers, project planners, banks and insurance companies, act as technical consultants in standards working groups and play a leading role in international technical organizations such as MEASNET and IECRE. windtest grevenbroich gmbh has completed over 9,000 projects worldwide in the last 29 years and has a subsidiary in the USA since 2014.

EESYST Energie Elektrische Systemtechnik GmbH

is a company founded in 2019. Its employees combine expertise from a wide range of renewable energy sectors, even before the introduction of the Electricity Feed-In Act. They have been involved in the development of testing and certification rules and the introduction of voltage dip tests from the very beginning and see it as their duty to enable a complete and secure supply using renewable energies. The generation units can use these test facilities to prove that a secure supply is also possible with decentralized units.

Arrival of the new MV-FRT tester on the test site in Grevenbroich

(Photos: windtest grevenbroich gmbh)