

Services offered by IWES Installations

The DG Test and Certification Centre comprises the Design Centre for Modular Supply Technology DeMoTec, the EMC laboratory, the PV test-lab, the battery test lab, the power electronics lab, the inverter test lab, these are located in Kassel, and the biomass experimentation centre located in Hanau. A special inverter test lab is in planning and can be made accessible, too. Foremost the DeMoTec will be relevant in this project.

Its main features are:

- Laboratory grid with distributed generators available for testing purposes
- Rotating and inverter based generators, power range 1-200 kW
- Generators can be easily configured to form local grids
- Medium-voltage network simulator
- DG grid and generators controllable via SCADA system

Accredited Test Laboratories for Converters and EMC

Fraunhofer IWES in Kassel carries out accredited tests in its laboratories in accordance with DIN EN ISO/IEC 17025. These are tests on the electromagnetic compatibility of electrical equipment, on the grid properties of converters for decentralized electricity generators (e.g. according to BDEW and FGW TR3), and on the efficiency of photovoltaic converters and systems.