

**IWES (former ISET e.V.) addresses applications-oriented research in the field of electrical engineering and systems technology for the use of renewable energies. The spectrum covers ranges from theoretical investigations over experimental studies and field tests through to the development of devices and systems. Specialised professional competences include especially power electronics, control engineering, process engineering and information systems.**

### **Key Research Fields & Competence Areas:**

- System Technology for the Grid Integration of DER and electric vehicles
- Hardware and software-development for Grid-connected Inverters and Hybrid Systems
- Control strategies (FRT, islanding operation, ancillary services)
- Modeling of Converters, electrical Grids and Windturbines

### **Institute Highlights:**

- Power Electronics development in the framework of system technology research
- Testing facilities for DER-units (PV-Systems, Wind-Energy Converters, Combined Heat and Power)
- accredited measurements of EMC, efficiency and grid code functionalities of converters
- Highly flexible laboratory infrastructure for testing of Smart Grids, Micro Grids and Island Systems

### **Contact Information:**

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