

Microgrids

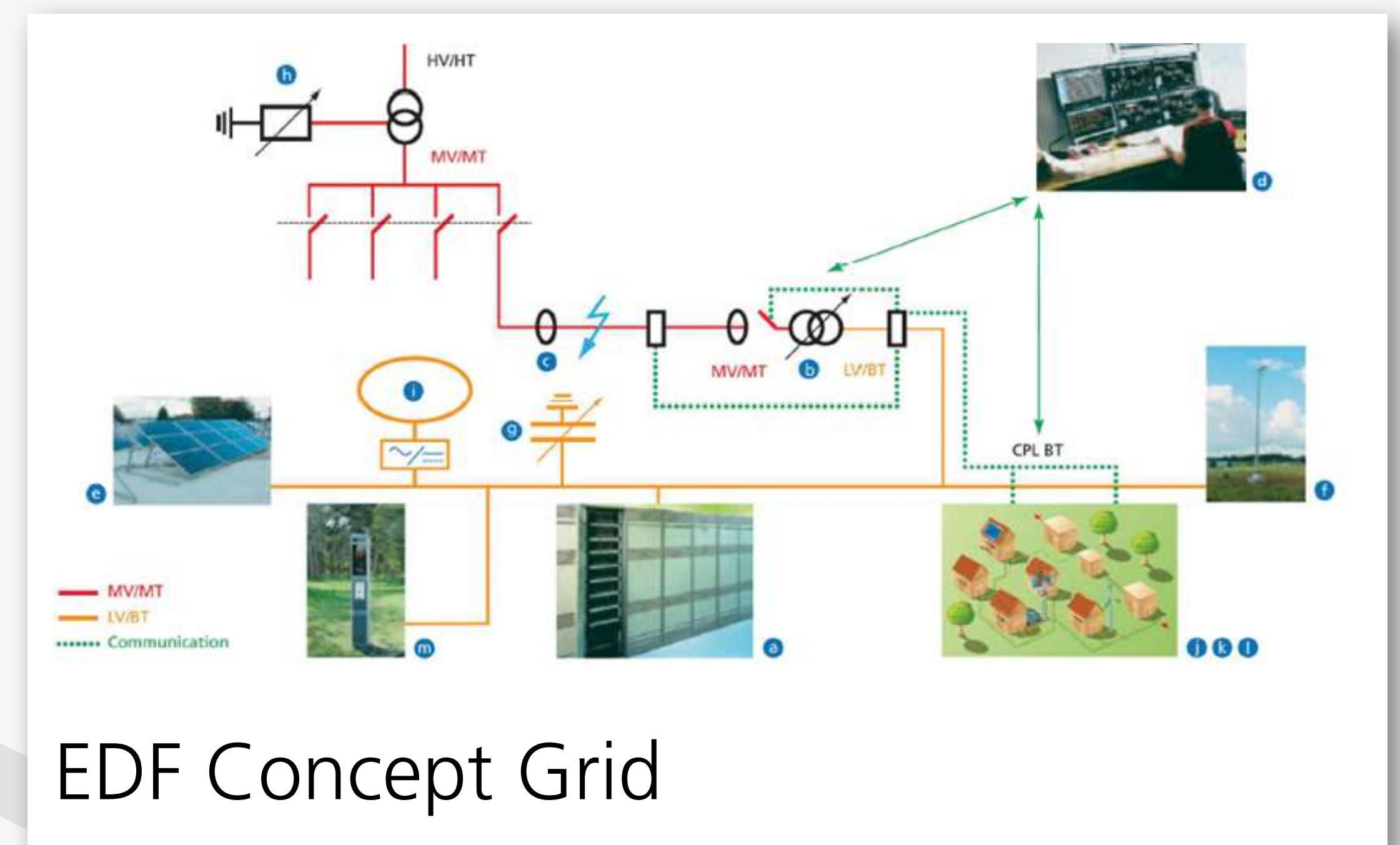
Research and Infrastructure

Highlights of DERlab Members

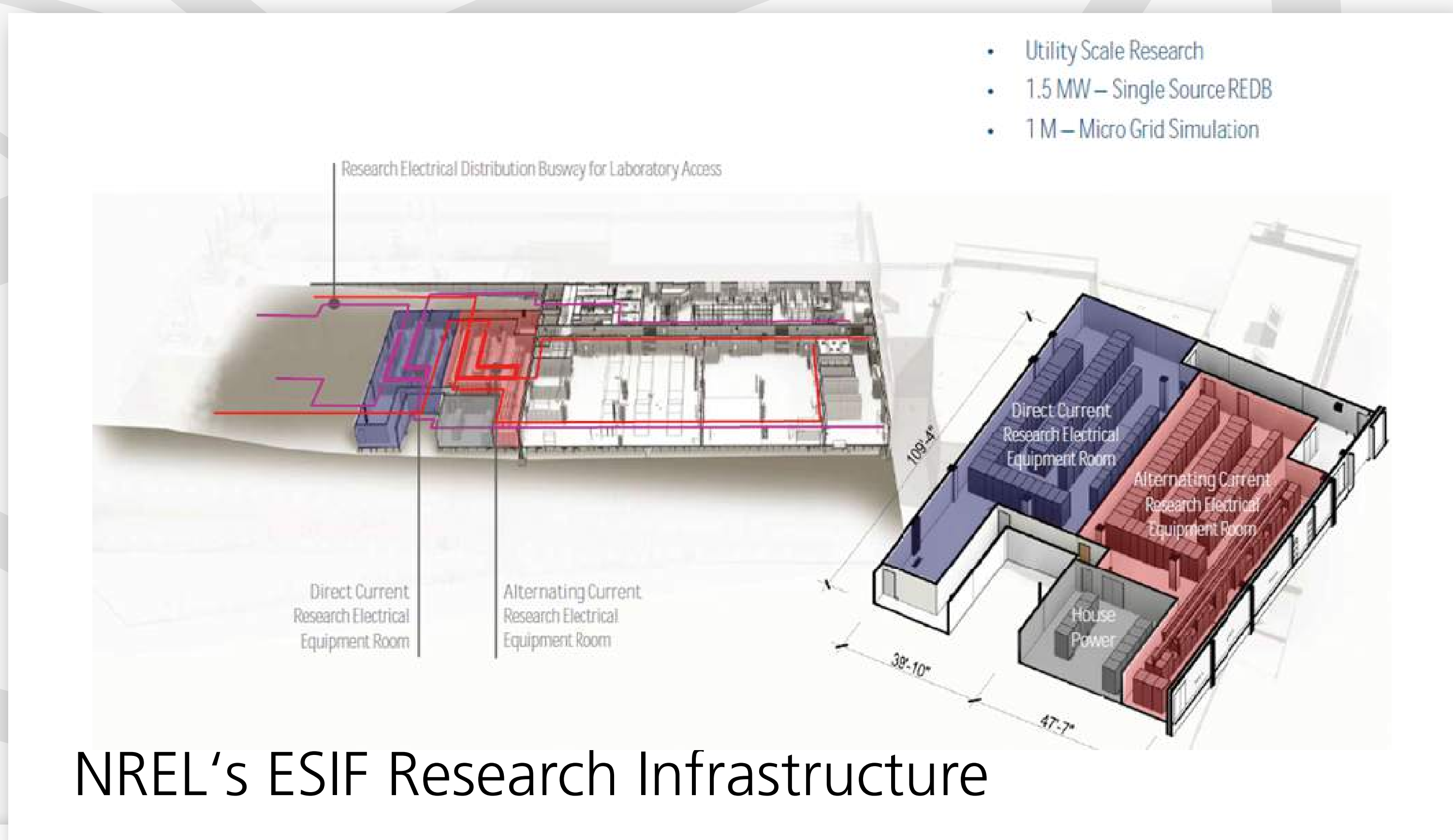
DERlab is an international association of over 30 leading research laboratories in the field of distributed energy resources equipment and systems.

Microgrids (MG) research expertise and infrastructure of DERlab members comprise:

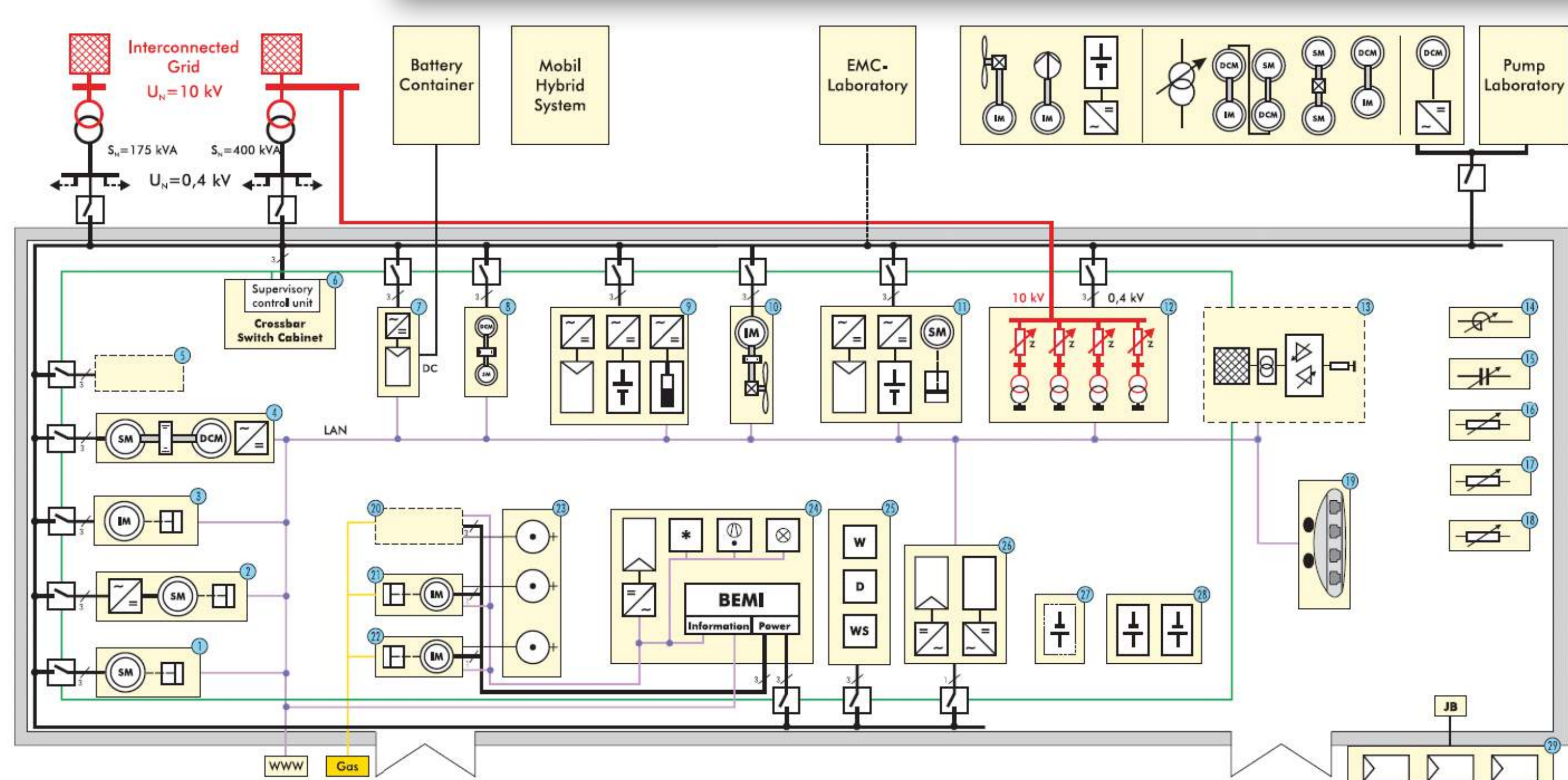
- Strategies and algorithms implementation and testing for MG management
- MG management in autonomous operation
- Measurements of the static and dynamic electrical properties of DER units and networks including generators and controllable loads for interconnected and island operation



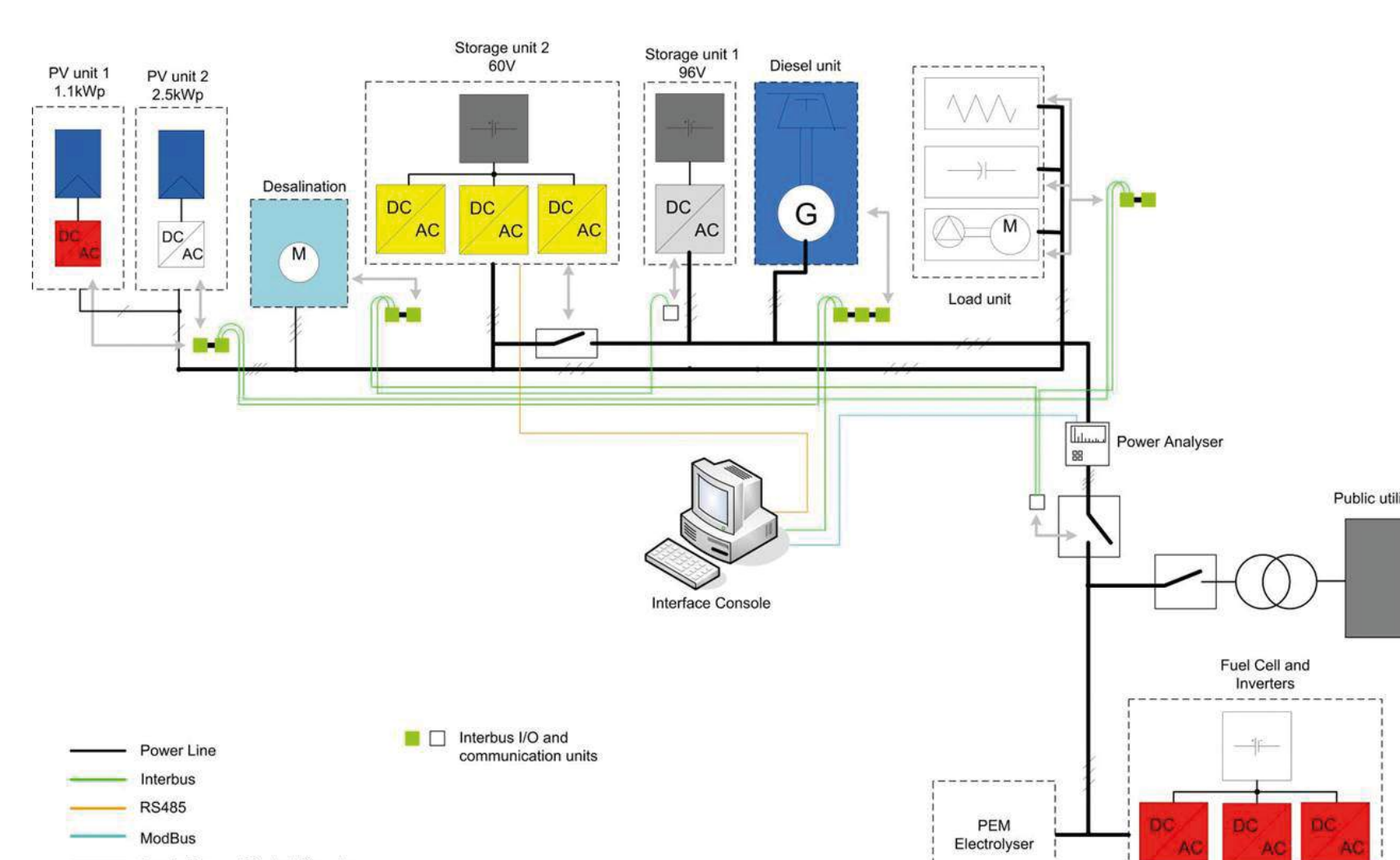
- Multi-Agent System (MAS) for MG operation
- Islanded MG operation with PHIL environment
- MG SCADA
- DC/AC microgeneration prototypes development
- State-of-the-art equipment for MG
- Flexible structure and configuration for building customised microsystems
- Versatile measuring and controlling systems for MG



NTUA Microgrids Laboratory



Fraunhofer IWES Design Centre for Modular Supply Technology DeMoTec



CRES Microgrid Infrastructure in Pikermi