

3D MicroGrid

DESIGN, DEVELOPMENT AND DEMONSTRATION
OF A SMART MICRO GRID



ERANETMED is funded by the
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ERANET MED

www.3DMicroGrid.com



Project's Scope

Modelling, simulating and taking a MicroGrid to reality

Management

- Efficient project coordination, communication and control.
- Quality assurance methods implementation and deliverables check.
- Monitor of results and adoption of corrective measures if needed.

Framework

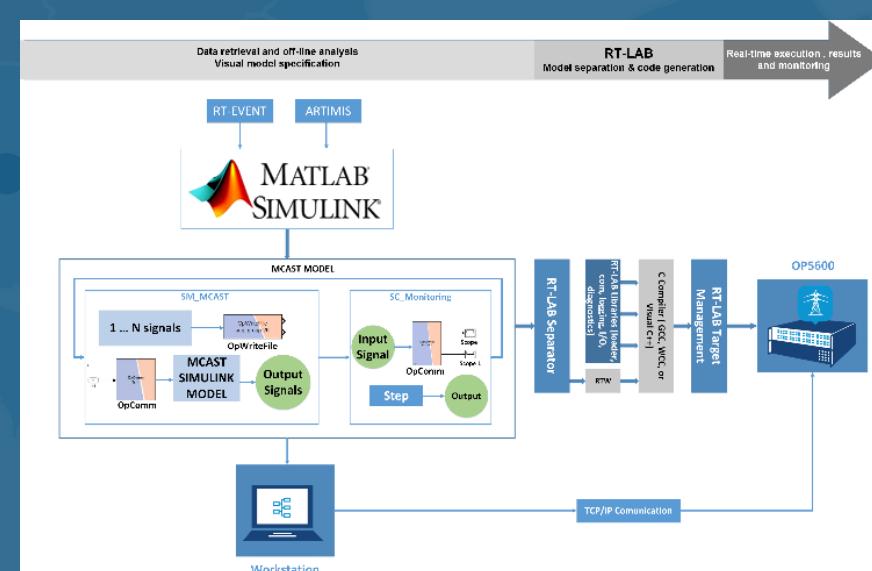
- Operating scenarios definition seeking proper decision-making.
- Overall requirements and resources definition.
- Holistic performance model and optimization framework development.

Control & Monitoring

- High accuracy models for CERTH's nanogrid, MCAST's small microgrid and GJU's large microgrid.
- Employment of SCADA for control actions and measurements concentration.
- Power exchange regulation, resynchronization procedures, phase balance, optimal power flow,...

Demonstration

- Real and functioning microgrids at member universities' facilities.
- Replication of simulation conditions and comparision between prediction and reality.



Acronym: 3DMicroGrid | PI: ERANETMED _ ENERG – 11 – 286

Topic: ERANETMED Renewable Energies

