

Networking European Smart Grid Research Infrastructures

Intelligent power networks are urgently required to integrate the growing number of distributed energy sources and generators into our energy system. 18 of Europe's top research institutions have joined forces in order to pool together their know-how and improve research infrastructures within the smart grid sector.

Developing an integrated research infrastructure for smart grid systems is the **target of the EU-funded ERIGrid project** (*European Research Infrastructure supporting Smart Grid Systems Technology Development, Validation and Roll Out*).

The **overall objective** of ERIGrid is to optimise the use and the further development of the best Smart Grid research infrastructures in Europe. The European scientific community needs these to remain at the forefront of the advancement of research, foster the innovation process and help the industry to strengthen its base of knowledge and validate its technological know-how.



Networking Activities

Validating Smart Grid technologies and developments is a task that requires a **holistic view** on the overall process. The entire domain spectrum of future Smart Grids has to be taken into consideration. Besides the technical components, such as the grid infrastructure, storage, generation, consumption, etc., it also comprises customers, markets, ICT, regulation, governance, and metrology to name a few. A holistic approach demands **integrating all prospective R&D sites and stakeholders**, e.g. hardware/software simulation labs as well as academic and industrial research. With this networking activity the next generation of researchers and engineers are being trained.

Joint Research Activities

A **core activity in ERIGrid** is the provision of a distributed and integrated research infrastructure which is capable to support the validation and testing of Smart Grid configurations. Overall 21 installations provided by the consortium members are available for trans-national access projects.



Trans-National Activities

With the trans-national access (TA) to the integrated research infrastructure of the ERIGrid members European industrial and academic researchers active in the Smart Grid domain are targeted. This access is funded by the project and is therefore **offered free of charge to researchers** planning to carry out research projects at a high level of excellence and innovation.

For each TA, **two calls for proposals** will be organised by the consortium **per year**. The consortium will publicise a description of each facility on the project website in order to provide technical information and the central entry point to potential users.

The projects submitted by industrial and academic researchers will have to tackle **challenging scientific and complex technical impacts**. The use of several facilities within the project and/or the presence of several partners will be fully monitored and rewarded.



Partners



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Contact:

www.erigrd.eu
erigrd-mgt@list.ait.ac.at

AIT Austrian Institute of Technology

Thomas Strasser (Coordinator)
Cyndi Moyo (Project Management)