

Experts Panel 2: Internationalisation as a tool for better SG development planning in the next Multiannual Financial Framework (MFF)

DERlab & PANTERA Project
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ON THE AGENDA

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DERlab Association



DERlab is an association of over thirty research institutes and leading laboratories from Europe and USA performing testing and research related to Smart Grids (SG), grid integration of Distributed Energy Resources (DER) and Electric mobility.

- Accredited testing of DER-units & SG-equipment
- Support of SG development & integration of DER
- Information and knowledge exchange
- Contribution to standardisation activities
- Contribution to the EC research programme

Active member:



DERlab Members

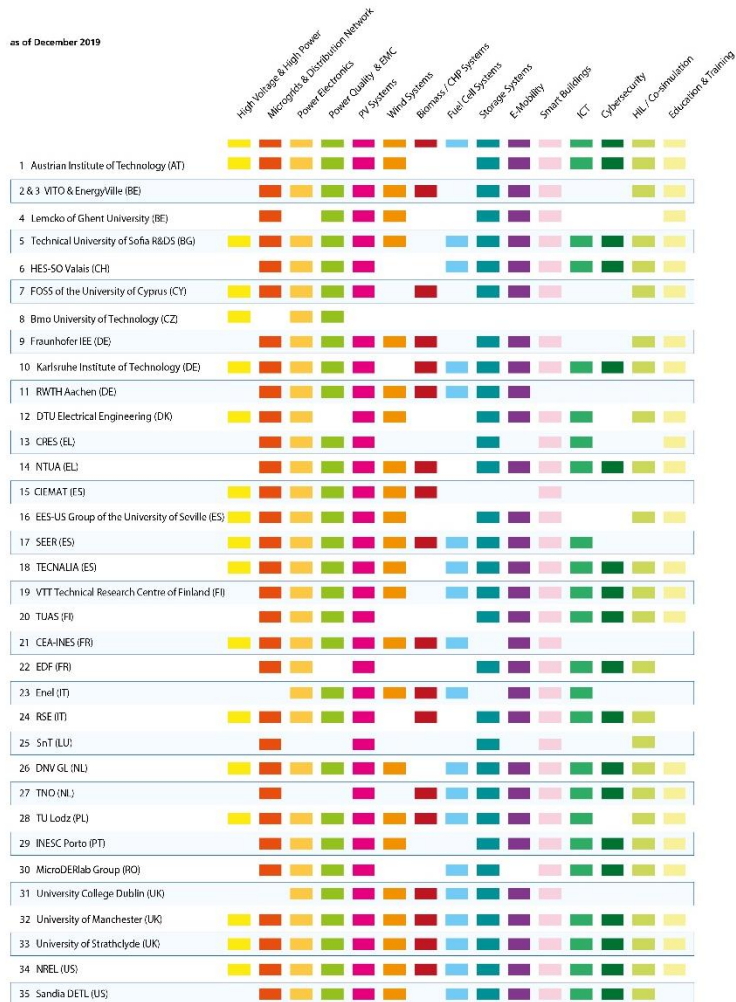
as of January 2020



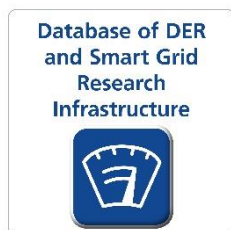
Testing capabilities of DERlab members



as of December 2019

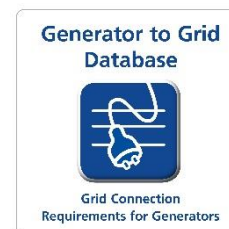


DERlab Databases



The Database of DER and Smart Grid Research Infrastructure contains systematic information on research infrastructure and related assets, testing capabilities and services of research institutes and organisations worldwide focusing on Distributed Energy Resources (DER) and Smart Grids.

The Generator to Grid Database is the access point to European grid connection requirements for Distributed Energy Resources (DER). You can find public documents available for download and links to purchasable documents.



The STARGRID Smart Grid Standardisation Information Tool provides information on Smart Grid standards and related documents, such as standards and specifications, both published and in the draft status, as well as roadmaps and guidelines.

ERIGrid: Networking European Smart Grid Research Infrastructures



[Nov. 2015 – April 2020] (EU - H2020)

www.erigrd.eu

ERIGrid focus on Smart Grids system testing and validation by providing a Pan-European research infrastructure that supports the technology development as well as the roll-out of Smart Grid solutions and concepts in Europe.



FREE Access to Europe's Leading Smart Grid Labs

INTERPLAN: INTERgrated operation PLAnning tool towards the Pan- European network



[Nov. 2017 – Oct. 2020] (EU - H2020)

INTERPLAN

www.interplan-project.eu

INTERPLAN is a project that aims to provide an Integrated operation network planning tool to support EU in reaching the expected low-carbon targets, while maintaining network security. INTERPLAN will provide a methodology for a proper representation of a “clustered” model of the pan-European network.



Netzregelung 2.0: Grid control and stability in the interconnected German power system



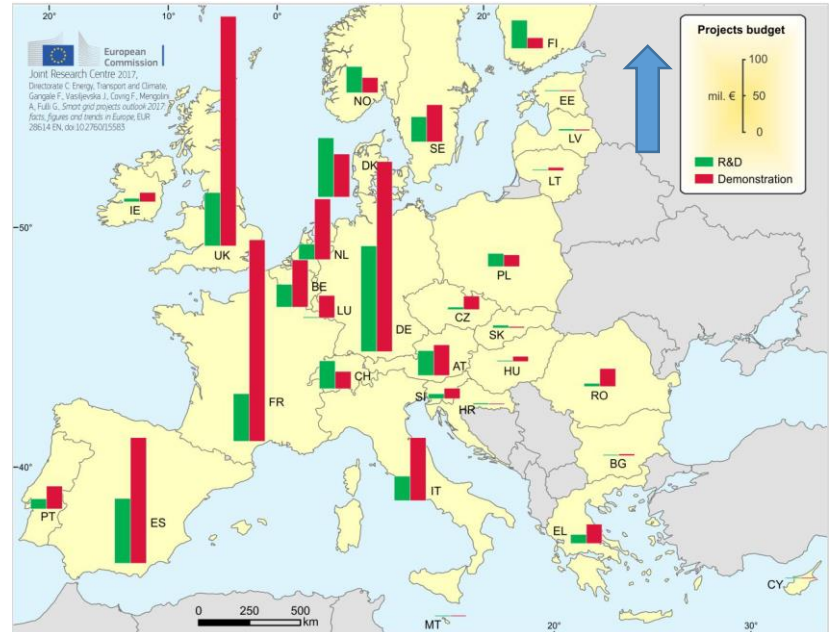
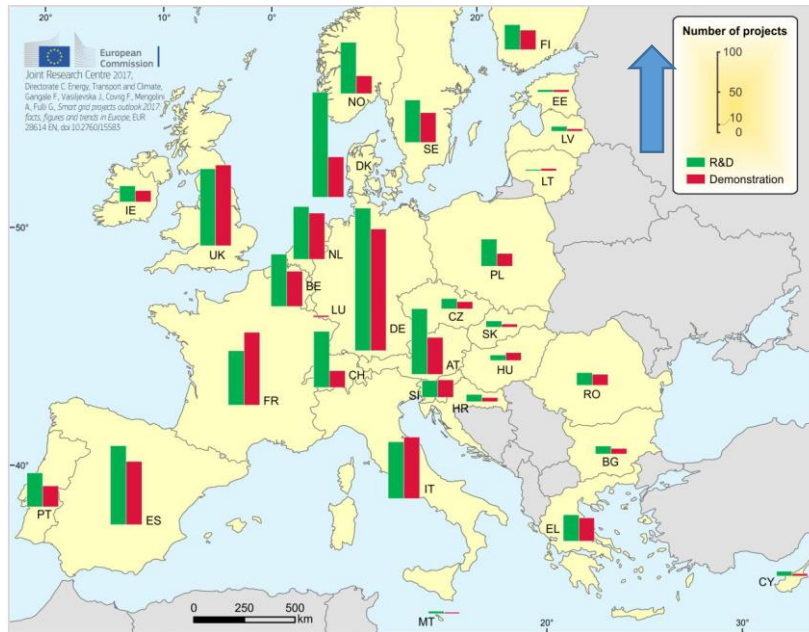
[Dec. 2017 – Nov. 2021] (German project)



Netzregelung 2.0 (Grid Control 2.0) aims in developing robust control methods for grid forming inverters as well as proofing the stability for the inverter dominated grid.



Background



- ★ It is noted that investment in Research and Development in Energy field throughout Europe is not even among members, according to the JRC Smart Grid Projects outlook.
- ★ In order to secure EU targets & sustainable goals, smart grids investment throughout Europe needs to be boosted and equalized among members.

¹JRC Science for Policy Report, Smart grid projects outlook 2017



PANTERA: Pan European Technology Energy Research Approach

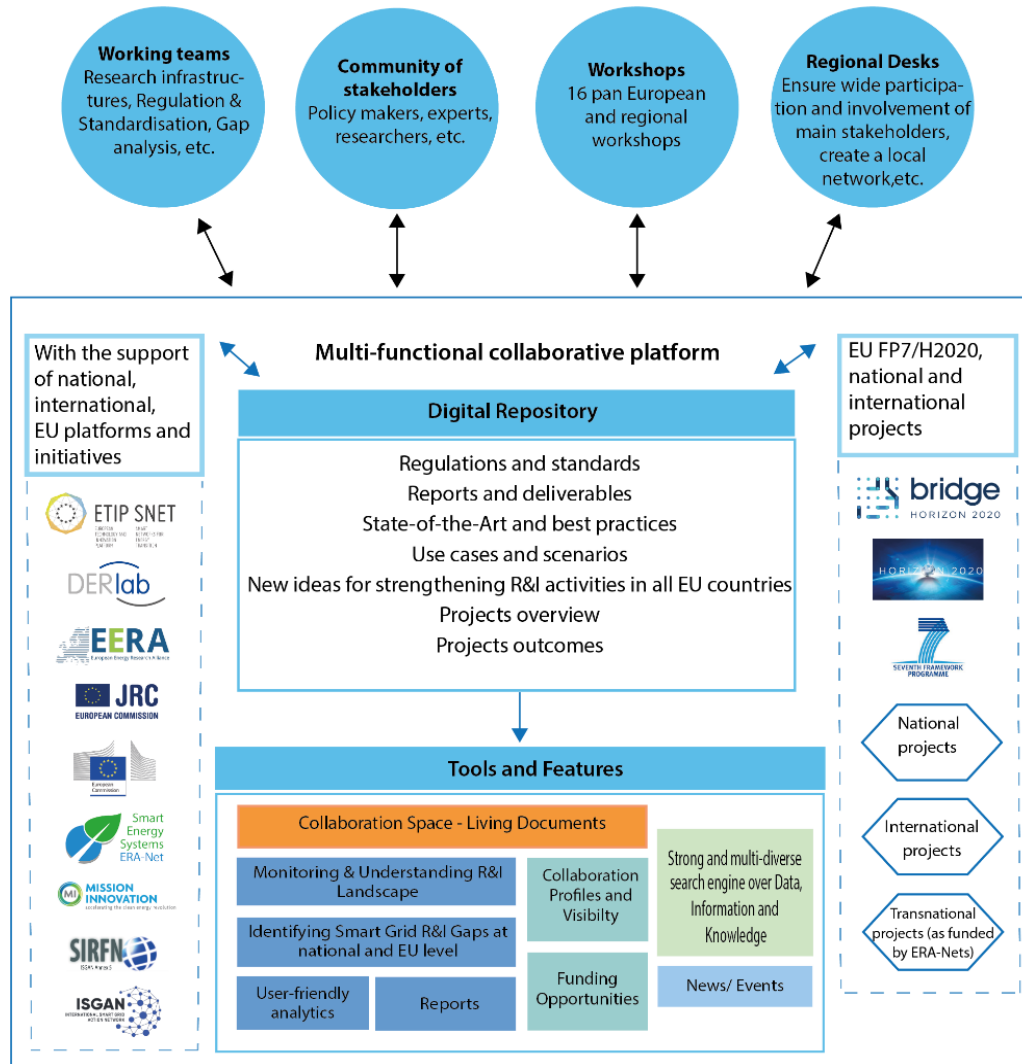


[Jan. 2019 – Dec. 2022] (EU - H2020)

PANTERA project will deliver a multi-dimensional platform of pan-European status and influence capable of leveraging coherence and trust as a pull towards enhancing research & innovation in energy systems centred around an integrated PAN European Smart Grid with specific emphasis on the less privileged/low spending countries.



PANTERA Concept



THANK YOU FOR YOUR ATTENTION!

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