



ERIGrid 2.0 – European Research Infrastructure supporting Smart Grid and Smart Energy Systems Research, Technology Development, Validation and Roll Out – Second Edition

Project Overview and Research Infrastructure Access Possibilities





Advanced Community



- Long-term
- Pan-European cooperation



- GA-ID 5189299
- FP6 NoE (01/2005-31/2011)
- 4.1 Mio EUR funding
- 12 partner
- Networking of DER labs, pre-standardization



- GA-ID 228449
- FP7 RI IA (01/2009-12/2013)
- 6.7 Mio EUR funding
- 16 partner from 12 countries
- TNA to DER labs, pre-standardization





- GA-ID 654113
- H2020 RI IA (11/2015-04/2020)
- 10 Mio EUR funding
- 18 partner from 11 countries
- TNA to Smart Grid and DER labs, pre-standardization



- GA-ID 870620
- H2020 RI IA (04/2020-09/2024)
- 10 Mio EUR funding
- 20 partner from 13 countries
- TNA & VA to Smart Grid, Smart Energy Systems and DER labs, pre-standardization

2005



2024

Key Facts



ERIGRID 2.0 – European Research Infrastructure supporting Smart Grid and Smart Energy Systems Research, Technology Development, Validation and Roll Out – Second Edition

- 13 European countries involved
- 20 Partners from research and industry
- 21 top-class smart grid and smart energy systems laboratories
- 8 virtual facilities
- 4.5 years project duration
- 10 Mio funding



Project Activities



Trans-national Access (TA) and Networking Activities (NA) Joint Research Activities (JRA) Virtual Access (VA) Liaison with ERIGrid 2.0 - European RI for Smart Grids, Smart Energy Systems, and Renewables Research Initiatives and SUSTAINABLE, LOW-CARBON ENERGY POLICY Associations 2015 Paris Agreement (NA5) and Stakeholder Needs Market (NA1) Open Data EC "Clean Energy for All Europeans" package Liberalization Digitalization Renewables Dissemination, Industry Residental Communication, Building and Virtual and Cooperation (NA2) Electrification Prosumers 2.0 Research of Transport (NA5, TA1, TA2, VA) Staff Exchange, Industrial Education --- ICT Notwork user and Training groups/ EU Energy Transition Goal: Creation of a low-carbon, secure, reliable, resilient, (NA3) vendors accessible, cost-efficient, and market-based pan-European integrated energy system Academ ic user groups Project consortia Integration and Enhanced Improved and Scenario and Improved and (European & Validation Extended RI Demonstration Test Case Extended Tools national Methods Services of Services Creation (NA4) (JRA2) projects) (JRA1) (JRA3) (JRA4)

Management of Access Activities

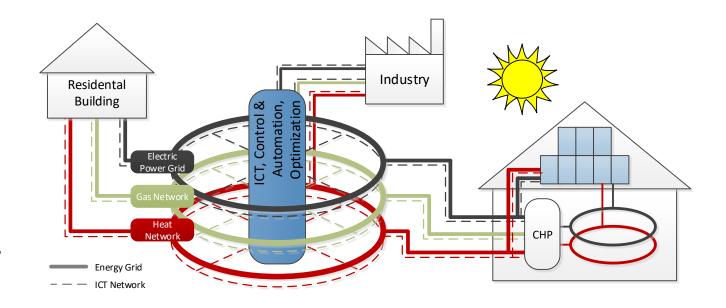
Trans-national Access to ERIGrid Infrastructure

User Innovations

Integrated Smart Energy Research Infrastructure



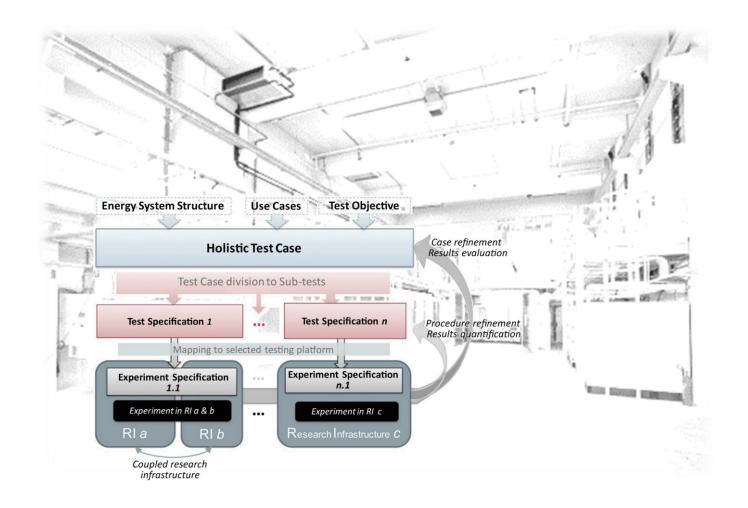
- ERIGrid 2.0 stands for research and technology development in smart grids and smart energy systems
- It pushes digitalization with lab interfacing and data exchange for physical/virtual access
- It develops simulation, co-simulation, ICT and automation and controls for power and energy systems



Approaches for Smart Energy Technologies



- Validation of cyber-physical and multi-domain systems
- Tools and services for lab interfacing and data exchange
- Research infrastructure services combining real-time simulation, hardware-in-the-loop test setups and physical laboratories

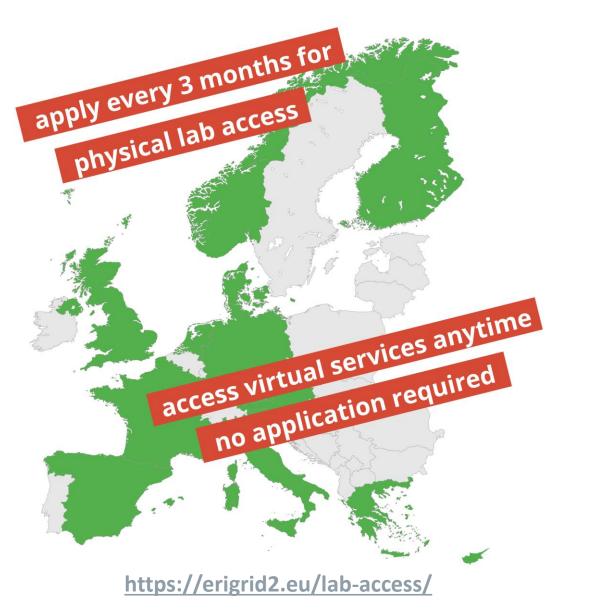


Education and Training



- Education and Training for energy professionals
- Physical and remote workshops, webinars, tutorials, and training schools
- Open access laboratory education
- Provision of e-learning tools and open access resources

















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Fraunhofer

















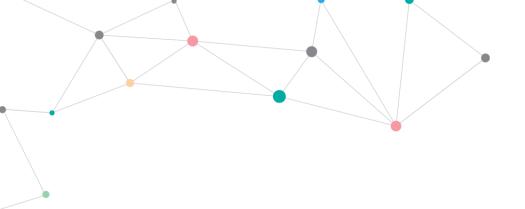


































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