



STandard Analysis supporting smart eneRgy GRID development

RECENT YEARS HAVE seen an ever increasing pace in Smart Grid standardisation activities on an international level. The STARGRID project aims at analysing and critically assessing the Smart Grid standardisation process and procedures at European and international level, including new industry developments and initiatives in this field. STARGRID will provide an in-depth analysis and mapping of their impact on different market players in the energy sector. Funded by the European Commission (EC) within the seventh framework programme (FP7), STARGRID is especially targeted at industry, with the objective of addressing and mitigating barriers to effective Smart Grid deployment. The project has a European focus, but takes into account global Smart Grid developments. Results will be published in a series of reports on the project website, to serve as information material for interested stakeholders, and include recommendations to industry, standardisation bodies and policy makers.

Smart Grid Standardisation

A WORLDWIDE GROWING demand in energy and the increasing use of fluctuating renewable energy resources impose major challenges on the operation of our electricity grids. The transformation to a so-called Smart Grid is an attempt to meet the resulting demands, based on widespread usage of information and communication technologies (ICT). Essential for this process is the development and adoption of non-proprietary standards that ensure both interoperability and security. In the past three years several national and international standardisation organisations have established Smart Grid task forces and implemented ambitious working plans, among them IEC, NIST and the European organisations CEN, CENELEC and ETSI. These latter three, in particular, under EC mandate M/490, have already produced an overview of standards in the Smart Grid context and proposed an analysis methodology, which will constitute the starting point of the STARGRID work.

The STARGRID Project

IN A FIRST STEP, STARGRID will collect the relevant documents and information from standardisation bodies and industry initiatives. Evaluation criteria will be developed to identify provisions or lacks on standards that enable or limit important Smart Grid use cases and business models, or are decisive for the interaction of different Smart Grid components. The following in-depth analysis of the gathered material will lead to recommendations for the various interest groups. In particular, recommendations to the Commission will be spelled out regarding its future strategy on Smart Grid standardisation for efficient deployment. The recommendations and results will also be presented at a final dissemination workshop in Brussels.

Stakeholders Involvement

DURING ALL STAGES of the project, close interaction with the concerned stakeholders will be sought, to ensure that their needs are taken into account appropriately. For this purpose, pilot groups will be established, consisting of industry representatives in the whole Smart Grid value chain, who will provide input for the project via questionnaires, interviews and workshops, and will assess the results. In return, the project will enable especially small and medium enterprises normally not involved in the standardisation process to enter the Smart Grid business and to identify technologies meeting their requirements and needs.

Partners



Fraunhofer Institute for Wind Energy and Energy System Technology (IWES), coordinator



Ricerca sul Sistema Energetico SpA RSE SpA (RSE)



Romanian Standards Association (ASRO)



TECNALIA Research & Innovation



European Distributed Energy Resources Laboratories (DERlab)

Selected Public Reports

(with estimated publication month):

- Smart Grid Standardisation Documentation Map (June 2013)
- Smart Grid Industry Initiatives Documentation Map (June 2013)
- Stakeholders' Requirements Analysis Report (November 2013)
- Standardisation Document Analysis (March 2014)
- Industry Summary Report (March 2014)
- Final Project Report (November 2014)

Support

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Contact

Stakeholders who wish to participate in STARGRID, providing their active contributions in the different phases of the project are warmly welcome and are invited to contact

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