

STARGRID project

STandards Analysis supporting smart eneRgy GRID development – STARGRID

- FP7 project, ICT-2011.6.1 Smart Energy Grids
- 2 years project: October 2012 – September 2014
- 5 partners



General objectives

1. provide a publicly available overview on Smart Grid standardisation
 2. gather requirements and reactions on standardisation initiatives and disseminate information on standards to stakeholders
 3. provide recommendations to politics and stakeholders
- ➔ support the large scale deployment of Smart Grid technologies

Scope

- Beyond classical standardisation organisation. Including in particular:
 - interaction regulation <-> standardisation
 - pre-standardisation, consortia-driven standardisation projects
- Focus on 3 Smart Grid Topics
 - DER integration & grid control
 - Demand response & customer energy management
 - Smart metering

Recent activities

- Recommendations on integrating Smart Grids in distribution networks (preliminary report, commenting phase, interviews, update report, workshop)
- Smart Grid Standardisation Information tool (<http://141.85.0.30:21001/>)
- See presentations

Activities & Publications

- Mapping of standardisation activities.
Publications:
 - Smart Grid Standardisation/Industry Initiatives Documentation Maps
 - Database (see presentation)
- Stakeholders' requirements analysis
 - Questionnaire
 - Publication: Requirements analysis report (see presentation)

Activities & Publications

- Industry survey, through questionnaire, workshops, and interviews, on awareness and relevance of standardisation activities, requirements (see presentation)
 - Publication: Industry Summary Report

Activities & Publications

| List of IEC Smart Grid standard series | Please indicate the relevance of the standard (series) for your organisation. (1 = not in use; 5 = core standard) | | | | | Do you expect the relevance of the standard (series) to | | | Comments. Please indicate any potential problems with this standard (series) you are aware of, a need for updates or replacements, etc. You may also specify which parts of the standards series are in use. |
|--|--|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--|
| | 1 | 2 | 3 | 4 | 5 | Increase | Decrease | Remain | |
| IEC 60870-5 Telecontrol equipment and systems - Part 5: Transmission protocols (including parts 101/104) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 60870-6 - Tase.2 Telecontrol equipment and systems - Part 6: Telecontrol protocols compatible with ISO standards and ITU-T recommendations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 61850 - Power Utility Automation Communication networks and systems in substations | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 61968 - CIM for Distribution Application integration at electric utilities - System interfaces for distribution management | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 61970 - CIM for Energy Management Energy management system application program interface (EMS-API) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 62325 - CIM for Market Communication Framework for energy market communications | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 62351 - Security Power systems management and associated information exchange - Data and communications security | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| IEC 62056 - DLMS / COSEM | | | | | | | | | |

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THANK YOU

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