

Smart Grid standardization in CEN-CENELEC-ETSI

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JWG Smart Grid

Joint Working Group on standards for Smart Grids

- established May 2010
- Reporting to the CEN, CENELEC and ETSI Joint Presidents Group

Participation of approx. 40-50 organizations

- representing European association of all involved stakeholders

Deliverable

- Report on European Status of Standardization of Smart Grid
- Contains recommendations for standardization in the areas of Glossary; Reference architecture; System Aspects; Communication; Information Security; EMC; Generation; Transmission; Distribution; Smart Metering (complementing, not duplicating M/441); Industry; Home and Building Automation and Demand Response

Mandate M490

To be co-ordinated with the outcomes of the existing mandates M/441 (smart metering) and M/468 (electric vehicles)



Main strands of the mandated work

- **Technical Reference Architecture**
to represent the functional information data flows between the main domains and integrate many systems and subsystems architectures, by 2012/Q1
- **Set of Consistent Standards**
to support the information exchange (communication protocols and data models) and the integration of all users into the electric system operation; a first set of standards to be available by 2012/Q4.
- **Sustainable standardization processes**
and collaborative tools to enable stakeholder interactions; a first set of Use Case management to be operational by 2012/Q1

Smart Grid Co-ordination Group (SG-CG)

JWG continues as SG-CG; in essence, the SG-CG role is to ensure that:

- the M/490 process is transparent
- the widest group of stakeholders is represented
- the deliverables meet the requirements of the mandate & stakeholders

The SG-CG will:

- Further maintain the report on smart grid standardization in Europe.
- Manage the whole work process concerning the smart grid mandate and clarify non-technical questions to avoid unnecessary discussions in technical groups
- Provide a suitable platform for discussion of smart grid standardization-related issues with the ESOs and European Commission
- etc
- **But , the SG-CG shall not itself produce standardization deliverables.**

M/490: Overview of groups

Overview of groups involved and their broad functions:

- **Smart Grid Co-ordination Group (SG-CG)**

The plenary stakeholder group, chaired by Ralph Sporer, T&D Europe

Participation by nominees of European Associations, National Committees, relevant TCs, etc

Chairman is supported by an operational steering group

- **The SG-CG sub-groups**

develop deliverables for the mandate on behalf of the SG-CG

address each of the strands in M/490

are open to volunteers, willing to contribute; direct participation is possible

- **Technical Committees**

develop standards to meet the requirements of the mandate

New structure: graphically

