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SMB/3950/INF

2009-02-04

INTERNATIONAL ELECTROTECHNICAL COMMISSION

STANDARDIZATION MANAGEMENT BOARD

SUBJECT

Status Report from SMB Strategic Group 3: *Smart Grids*

BACKGROUND

The attached status report from SG 3 was provided by the convener Mr. R. Schomberg, to SMB meeting 134 held in Seoul, 2009-02-18.

The first meeting of SG 3 is scheduled for March 2009.

ACTION

This document is for information.

SMB Strategic Group #3 : SmartGrids Status Report Seoul, February 18, 2009



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SMB SG3 Convener

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System Engineering Professor
Gridwise Architecture Council Member
TC8 Chair: System Aspects for Energy Delivery



“International” keys to succeed

- **Smart Grids are more than a collection of detached advanced applications. They will not coalesce by themselves.**
- **“Urban planning” of Smart Grids is necessary to set common directions and suggest reference designs at different levels. A plan at the scale of a Region, a State could benefit all stakeholders.**
- **Smart Grids will be in never ending evolution. The level of complexity requires a thorough “system approach” from “Requirements”**
- **Open standards and Interoperable “building blocks” are an ultimate solution, but a tactical progressive approach is needed to coordinate efficiently the efforts of many TCs.**



Some observations

- Smart Grid is a wide topic cross-cutting traditional silos, and can be viewed from very different angles.
- IEC was ahead 3 years ago when the topic has been considered at the Copenhagen SMB meeting. Now the industry is in demand for an IEC “beacon”, and while waiting is trying to solve at best its problems through redundant independent efforts.
- The domain is not at its infancy but now needs urgent convergence.
- There is no need to start from scratch as a large number of studies has been published since 2001 across the world.
- Many different IEC TCs are/will be developing Standards contributing to Smart Grid.
- There are many options that can be pursued by IEC to make a difference for the industry on Smart Grids regarding Standards and eventually Conformity Assessment and Interoperability.

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The Strategic Group on Smart Grid can:

- propose a consensus vision, an associated IEC vocabulary, and a segmentation addressing the different stakeholder's purposes.
- explore different concrete paths in order to propose for SMB approval a progressive tactical plan. The plan will allow showing ASAP to the industry what to expect from the IEC (Standards/Technical Guides?, Conformity Assessment? Time frame?)
- deliver a first level of IEC Smart Grid map [framework] to the industry by collecting and assembling existing IEC material.
- establish a more technical mapping [framework], that should help the TCs to manage their own current and future activities in a convergent way
{will require technical resources}
- propose an appropriate IEC organization for the long term.

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Status

- **SMB Decision 133/20:**
 - a strategic group on smart grid be established with the primary responsibility for the development of a framework that includes protocols and model standards to achieve interoperability of smart grid devices and systems should first be established..
 - The strategic group will need to establish its membership and decide on its terms of reference.
- **The US NC nominates Mr. Richard Schomberg as convener of SG 3**
- **Peter Lanctot (IEC CO Officer) is the Secretary of the group**
- **13 NCs have submitted nominations: BR, CA, CH, CN, DE, FR, GB, IT, JP, KR, NL, SE and US**

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Next steps in concrete

- **Organize first meeting of SG#3 :**
 - Terms of reference of SG#3
 - Share vision on Smart Grid
 - Establish timeline
- **Enlarge the Involvement:**
 - External: utilities,...etc
 - Internal: different TCs
- **ASAP Communicate widely how the industry can count on IEC for Smart Grid projects**
 - Articles
 - Web community (likewise watt watt)
- **Organize a Smart Grid symposium (eventually piggyback an existing major Smart Grid event)**

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THANK YOU

