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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

SMB Strategic Group 3 – Smart Grid

Status Report to JTC1

Tel Aviv, Israel – 2009-10-19



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SMB SG3 Secretary

Technical Officer

&

RICHARD SCHOMBERG

SMB SG3 Convenor

IEC TC8 *Chairman*

Efficient and reliable transmission and distribution of electricity is a fundamental requirement for providing societies and economics with essential energy resources.

- Need for more energy
- Increased usage of renewable energy resources
- Sustainability
- Competitive energy prices
- Security of supply
- Aging infrastructure and workforce

- High power system loading
- Increasing distance between generation and load
- Fluctuating renewable's
- New loads (hybrid/e-cars)
- Increased use of distributed energy resources
- Cost pressure
- Utility unbundling
- Increased energy trading
- Transparent consumption & pricing for the consumer
- Significant regulatory push

- In Paris, SG3 identified **24 IEC TCs** with published International Standards playing a role in the Smart Grid; then pinpointed how these standards address the priorities of Stakeholders.
- Agreed on a basic set of standards representing cross cutting needs for:
 - Interoperability, Transmission, Distribution, Metering, Connecting the consumers, Cyber Security
- **Action Plan:**
 - Monitor worldwide Smart Grid standards initiatives to leverage and synchronize at best the efforts (USA-NIST, China, etc)
 - Isolate gaps and overlaps within IEC standards related to Smart Grid.
 - Engage and provide stakeholders, (Vendors, Utilities, Regulators) with a fixed set of Standards to immediately use.
 - Launch IEC webpage: www.iec.ch/smartgrid

- **150+ page** “roadmap” document circulated to SG3 members for a 4-week comment period;
- Roadmap further identified over **100 relevant IEC standards** and **standard parts** for Smart Grid:
 - **12 specific applications** and **6 general topics** have been reviewed;
 - **44 recommendations** for future work and actions are identified;
 - **36 gaps** and **issues** currently noted.

- **Framework-2 Action plan:**
 - Close gaps and reduce overlaps of identified standards;
 - Orchestrate a tangible plan to involve TCs with standards identified in Framework-2 to **interact** with each other, **and incorporate** Smart Grid design in their future planning;
 - Encourage the use of the PAS process to jumpstart the process and buy time.
 - Investigate a conformity assessment type scheme for testing and certification of how standards are implemented in Smart Grid devices and projects.

- In August 2009, the U.S. based National Institute of Standards and Technology (NIST) hosted Smart Grid workshop to engage SDOs in addressing standard-related priorities.
- The Convenor of SG3 and Secretary invited to participate;
- IEC Standards were recognized as being crucial in the development of the NIST roadmap;
- IEC agreed to actively support in identified & prioritized, action fields.

SG3 will meet in:

Denver, USA

on

19-20 November 2009

in parallel with the Grid-Interop 2009



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Thank you for your attention. Any questions?

