



**IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY
SPECIAL COMMITTEE 1, SMART GRID
IEEE RELATED ACTIVITIES August 15, 2011**

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1 THE NEW IEEE-SA STANDARDS STORE IS NOW OPEN !

The IEEE-SA has launched a new IEEE Standards Store, in partnership with Techstreet, with new online features to save you time and help you to keep track of the latest standards available.

Visit the new IEEE Standards Store at:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,8t3y,d183,87yb,k54q>

View a video about the new IEEE Standards Store at:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,58mx,hid9,87yb,k54q>

**2 IEEE STANDARDS ASSOCIATION AND SAE INTERNATIONAL AGREE
TO COLLABORATE ON SMART GRID AND VEHICLE-ELECTRIFICATION
STANDARDS**

New Memorandum of Understanding Calls for Each Organization to Share Draft Standards Related to the Smart Grid and Vehicle Electrification

The IEEE Standards Association (IEEE-SA) and SAE International today announced that the two organizations have signed a memorandum of understanding (MOU) to establish a strategic partnership in vehicular technology related to the Smart Grid. In doing so, IEEE-SA and SAE International are striving to create a more efficient and collaborative standards-development environment for the industry participants that they serve.

IEEE, the world's largest professional association advancing technology for humanity, has more than 100 standards and standards in development relevant to the Smart Grid, including more than

20 named in the U.S. National Institute of Standards and Technology (NIST) Framework and Roadmap for Smart Grid Interoperability Standards. Under terms of the MOU signed by IEEE-SA and SAE International in February 2011, each organization will share its draft standards related to the Smart Grid and vehicle electrification for input from the other.

To view the complete article, please visit:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,lrlld,2ql6,87yb,k54q>

3 IEEE TO DEVELOP STANDARDS LIMITING INSERTION OF HARMONICS INTO POWER GRID

Standard for Calibration and Use of RF Test Gear to be Revised

The IEEE Standards Association (IEEE-SA) Standards Board approved two new projects to develop standards that will limit the injection of harmonic frequencies into the public electric transmission system.

Proposed standard IEEE P1836(TM) - Standard for Electromagnetic Compatibility (EMC) - Limits for Harmonic Current Emissions Produced by Equipment Connected to Public Low-Voltage Systems with Input Current ≤ 16 A Per Phase
- will establish limits for equipment and create methodologies for testing and simulation.

Proposed standard IEEE P1837(TM) - Standard for Electromagnetic Compatibility (EMC) - Limits for Harmonic Current Emissions Produced by Equipment Connected to Public Low-Voltage Systems with Input Current >16 and ≤ 75 A Per Phase - has the same general thrust. Both standards will take the cost of corrective action into consideration and apply the principals of lowest cost solutions.

In addition, the IEEE has initiated a project to revise the standard covering procedures and equipment used to measure electromagnetic emissions. The present standard, IEEE P1309(TM) - Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz.

To view the complete article, please visit:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,f8ax,alp9,87yb,k54q>

4 IEEE INITIATES STANDARD-MAKING PROCESS FOR KEY SMART GRID FIBER-OPTIC COMPONENTS

Hardware for Use with Optical Ground Wire, All-Dielectric Self-Supporting Systems and WRAP Cable will be Subject to Performance, Qualification and Acceptance Standards

IEEE announced the formation of three working groups to develop technology standards that will assure improved performance by key fiber-optic components in the Smart Grid:

Proposed standard IEEE P1591.1(TM) - Standard for Testing and Performance of Hardware for Optical Groundwire (OPGW)

Proposed standard IEEE P1591.2(TM) - Standard for Testing and Performance of Hardware for All-Dielectric Self-Supporting (ADSS) Fiber Optic Cable .

Proposed standard IEEE P1591.3(TM) - Standard for Qualifying Hardware for Helically-Applied Fiber Optic Cable Systems (WRAP Cable)

To view the complete article, please visit:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,dgq0,j08g,87yb,k54q>

5 IEEE APPROVES AND PUBLISHES REVISION STANDARDS FOR SURGE-PROTECTIVE DEVICES AND INSULATION

Utilities, Consultants, Test Laboratories and End Users will Benefit from Guidelines that Make it Easier to Compare SPDs and Select Proper Insulation for Lightning and Switching

The IEEE Standards Association (IEEE-SA) Standards Board has approved a revised standard that will establish insulation coordination. The IEEE-SA has also published a revision of a standard covering the use of surge-protective devices.

The approved IEEE C62.82.1(TM) - Standard for Insulation Coordination - Definitions, Principles, and Rules - establishes a procedure for selecting insulation that is capable of withstanding the impulse voltages created by lightning and switching.

The published IEEE C62.62(TM) - Standard Test Specifications for Surge-Protective Devices (SPDs) for Use on the Load Side of the Service Equipment in Low-Voltage (1000 V and Less) AC Power Circuits - will

provide users, independent laboratories and manufacturers with test methods and test specifications applicable to low-voltage SPDs for limiting transient overvoltages.

6 P2030 - IEEE Draft Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications and Loads

This document provides guidelines for smart grid interoperability. This guide provides a knowledge base addressing terminology, characteristics, functional performance and evaluation criteria, and the application of engineering principles for smart grid interoperability of the electric power system with end use applications and loads. The guide discusses alternate approaches to good practices for the smart grid.

To view the complete article, please visit:

<http://ieeestandards.org/ct.html?rtr=on&s=8nv,1ircn,340i,6zyt,lqn,87yb,k54q>