

Development of a Secure, Robust and Reliable North American Smart Electrical Grid

Gene Eckhart
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Gen_eckhart@nema.org
<http://www.nema.org/smartgrid>



#GridWeek

GridWeek 2010

Title: Development of a Secure, Robust, and Reliable North American Smart Electrical Grid

Department of Commerce International Trade Administration (ITA) Entities And Other Federal Offices: Manufacturing and Services, Market Access and Compliance, ITA Standards Liaison, Foreign Commercial Service offices in the region, NIST, etc.

Award Period: October 1, 2009 - September 30, 2012

Foreign Markets Targeted: Mexico, Canada

Project Activities

Activities in these three segments will be included each year for 3 years:

- Educational outreach on investment and tax policies to favor companies' adoption of Smart Grid products;
- Expand the market through the development of interoperability standards; and
- Support utility investment in Smart Grid products and systems.

Goals

- Continued robust growth in U.S. electrical exports to these two trading partners.
- “National” treatment for NEMA member exports, particularly when utility customers are part of the government.
- Harmonization of North American standards and installation practices
- A significant number of federal, provincial, and state government officials familiar with Smart Grid practices and standards being developed in the U.S.
- Market information documented and contacts identified
- Understanding and commitment of target utilities to the need for investment in Smart Grid products.
- Support of the Canadian and Mexican governments to invest in Smart Grid.

We will also work to compile.....

- Economic analysis on the marketability of the North American Smart Grid products in these two countries.
- Identification of existing state of development of the electrical grids as regards to Smart Grid in the two countries.
- Identification of the installation codes, product safety standards, and certification processes, as well as the organizations which control and/or enforce them both locally as well as nationally.
- Information on standardization and conformity assessment priorities and initiatives that affect electrical grid products.

Educational outreach on **investment and tax policies** to favor companies' adoption of Smart Grid products:

- In Canada, work with ElectroFederation Canada (EFC) to develop and finalize a plan of action to achieve the objectives; meet with federal and provincial government authorities pursuant to the plan.
- In Mexico, work with CANAME and CFE to develop and finalize a plan of action to identify and target key government officials; meet with appropriate federal government officials in DGN, COFETEL, etc. pursuant to the plan.
- Presentations at major Smart Grid conferences in both countries by recognized industry experts from the U.S.

Expand the market through the **development of interoperability standards:**

- In Canada, work with CSA and Standards Council Canada (SCC) to develop and finalize a plan of action to identify needs and an approach to ensure that standards are being developed in concert with those in the U.S. as prioritized by NIST; identify appropriate existing, or initiate new, technical committees to develop the standards; work through CANENA to develop harmonized standards.
- In Mexico, work with ANCE (National Association for Electrical Standards), NYCE (National Association for Electronics Standards) and CFE to develop and finalize a plan of action to identify needs and an approach to ensure that standards are being developed in concert with those in the U.S. as prioritized by NIST; identify appropriate existing, or initiate new, technical committees to develop the standards; work through Council for Harmonization of Electrical Standards for the Nations of the Americas (CANENA) to develop harmonized standards.

Support **utility investment** in Smart Grid products and systems:

- In Canada, working with EFC, CSA and SCC, meet with four largest provincial utilities and conduct information seminars to highlight the benefits of the Smart Grid and to identify local and regional needs and the present state of grid development.
- In Mexico, working with CANAME, ANCE, NYCE and CFE, meet with three of the largest regional distribution centers of CFE (there are 13 in all) and conduct information seminars to highlight the benefits of Smart Grid, and to identify local and regional needs and the state of development.
- Site visit to a U.S. installation of Smart Grid technology at a regional system operations level.
- Briefing for USG standards officials in Washington DC.

NEMA-Designed Performance Measures

- Continued robust growth in U.S. electrical equipment exports
- 30 NEMA member companies directly involved in the activities.
- Sales to these two countries by 20 NEMA small and medium (SME) members who have never done so before.
- Participation in at least 4 national standards development committees in each country.
- 30 foreign attendees at each NEMA technical training seminar.
- 30 total foreign participants in reverse trade missions.
- Participation of 8 NEMA SME technical experts in technical training seminars.

NEMA Team

Gene Eckhart

Strategic planning, trade missions

John Caskey

Investment policy, member relations

Paul Molitor

Investment policy, product demo

Ben Biroschak

Standards harmonization, utility demo

NEMA Mexico Office:

Gustavo Dominguez

Ricardo Vazquez

Project activities in Mexico