

P2030

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Type of Project: New IEEE Standard

PAR Request Date: 18-Dec-2008

PAR Approval Date: 19-Mar-2009

PAR Expiration Date: 31-Dec-2013

Status: PAR for a New IEEE Standard

Project Record: 2030

1.1 Project Number: P2030

1.2 Type of Document: Guide

1.3 Life Cycle: Full Use

2.1 Title: Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), and End-Use Applications and Loads

3.1 Working Group: IEEE 2030 Smart Grid Interoperability Working Group (SASB/SCC21/2030WG)

Contact Information for Working Group Chair

Name: Richard De Blasio

Email Address: dick_deblasio@nrel.gov

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Contact Information for Working Group Vice-Chair

None

3.2 Sponsoring Society and Committee: IEEE-SASB Coordinating Committees/SCC21 - Fuel Cells, Photovoltaics, Dispersed Generation, and Energy Storage (SASB/SCC21)

Contact Information for Sponsor Chair

Name: Richard De Blasio

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Contact Information for Standards Representative

Name: Thomas Basso

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4.1 Type of Ballot: Individual

4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot: 07/2012

4.3 Projected Completion Date for Submittal to RevCom: 12/2012

5.1 Approximate number of people expected to be actively involved in the development of this project: 60

5.2 Scope: 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.

5.3 Is the completion of this standard dependent upon the completion of another standard: No

5.4 Purpose: This standard provides guidelines in understanding and defining smart grid interoperability of the electric power system with end-use applications and loads. Integration of energy technology and information and communications technology is necessary to achieve seamless operation for electric generation, delivery, and end-use benefits to permit two way power flow with communication and control. Interconnection and intra-facing frameworks and strategies with design definitions are addressed in this standard, providing guidance in expanding the current knowledge base. This expanded knowledge base is needed as a key element in grid architectural designs and operation to promote a more reliable and flexible electric power system.

5.5 Need for the Project: The smart grid is being widely discussed and debated today by many individuals of different backgrounds including the technical, business, regulatory, and government professionals. However, there is no common definition and understanding of the smart grid. Even within the international electrical and electronic engineering professions that commonality is lacking. This project is needed to overcome that void and establish a sound engineering baseline for defining and understanding the smart grid.

5.6 Stakeholders for the Standard: electric power system owners, planners and operators; information technology personnel;

electricity consumers; equipment manufacturers; system developers; distributed energy resources personnel; integration and interconnection personnel; buildings industry; plug-in electric vehicles personnel; and, regulatory and government bodies.

Intellectual Property

6.1.a. Has the IEEE-SA policy on intellectual property been presented to those responsible for preparing/submitting this PAR prior to the PAR submittal to the IEEE-SA Standards Board?: Yes

If yes, state date: 10-Dec-2008

6.1.b. Is the Sponsor aware of any copyright permissions needed for this project?: No

6.1.c. Is the Sponsor aware of possible registration activity related to this project?: No

7.1 Are there other standards or projects with a similar scope?: No

7.2 International Activities

a. Adoption

Is there potential for this standard (in part or in whole) to be adopted by another national, regional or international organization?: Do Not Know

Organization:

Technical Committee Name:

Technical Committee Number:

Contact Name:

Phone:

Email:

b. Joint Development

Is it the intent to develop this document jointly with another organization?: No

c. Harmonization

Are you aware of another organization that may be interested in portions of this document in their standardization development efforts?: Do Not Know

Organization:

Technical Committee Name:

Technical Committee Number:

Contact Name:

Phone:

Email:

8.1 Additional Explanatory Notes (Item Number and Explanation): 1.1 Request 2030 PAR number.

3.1 Name of Working Group: IEEE Smart Grid Interoperability Working Group

3.1 Contact Information for WG Chair: Richard DeBlasio (National Renewable Energy Laboratory - NREL); Mailing Address: Mail 1617 Cole Blvd MS1614; Tel: (303) 275-4333; Fax: (303) 275-3835; Email: Dick_DeBlasio@NREL.gov

P2030 Secretary and PAR item 3.2 Contact Info for Standards Representative: Thomas (Tom) S. Basso; National Renewable Energy Laboratory (NREL); Mailing Address: NREL MS1614, 1617 Cole Blvd, Golden CO 80401-3393; Tel. (303) 275-3753; Fax (303) 275-3835; Email: Thomas_Basso@IEEE.org (Thomas_Basso@NREL.gov)