



# SGiP

## Smart Grid Interoperability Panel General Meeting

**George Arnold**

National Coordinator for Smart Grid Interoperability

National Institute of Standards and Technology

November 16, 2009

Grid-Interop 2009



# The Big Event!!!

- 261 member organizations
- 887 participating representatives
- 22 represented stakeholder categories
- We're excited!

**ACCELERATING THE DEVELOPMENT  
AND HARMONIZATION OF SMART GRID  
STANDARDS**



# Agenda

Time	Discussion	Presenter
1:00 PM – 1:10 PM	Welcome	Dave Wollman
1:10 PM – 1:30 PM	SGiP Charter – Organization	George Arnold
1:30 PM – 2:00 PM	SGiP Charter – Bylaws	Erich Gunther
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3:30 PM – 5:00 PM	Voting Results Governing Board Candidate Introductions	Erich Gunther
5:00 PM	Adjourn	



# NIST Smart Grid Timeline

- ← Dec 2007 – Energy Independence and Security Act
- ← Aug 2008 – NIST forms Domain Expert Working Groups w/GWAC
- ← Nov 2008 – NIST Workshop at Atlanta Grid-Interop 2008

## 2009

January

February

March

April

May

June

July

August

September

October

November

December

- ← Feb 17 – American Reinvestment and Recovery Act
- ← Mar 19 – FERC Smart Grid Policy Statement and Action Plan
- ← George Arnold: National Coordinator for SG Interoperability

NIST Smart Grid Interoperability Roadmap  
Workshops and Development

Priority Action Plans & SGIP Charter Development (to Nov 12)

← NIST Smart Grid Interoperability Framework 1.0 Draft

← SGIP Update Webinars – Oct 9, Oct 28, Nov 12

← SGIP Inaugural Meeting November 16-19

- Charter Ratification

- Governing Board Elections **Grid-Interop 2009**



# SGiP Activities at Grid-Interop

	Monday Nov 16	Tuesday Nov 17	Wednesday Nov 18	Thursday Nov 19
8:00				
9:00				
10:00				
11:00				Key Issues
12:00				Lunch
1:00	Charter Ratification & Board Candidate Introductions		Priority Action Plan Workshops	Election Results
2:00				
3:00				
4:00		Stakeholder Breakouts		
5:00	Grid-Interop Registration			
6:00		<b>Governing Board Online Elections</b>		

**Mon 5 pm EST to Wed 8 pm EST** Grid-Interop 2009



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# What is SGiP?

- Pursuant to EISA, NIST is responsible for
  - Coordinating development of, and
  - publishing the Smart Grid interoperability framework,
  - with input and cooperation of other Federal and State agencies and interested private sector entities
- SGiP is a
  - membership-based organization,
  - created by an Administrator under contract from NIST,
  - to provide an open process for stakeholders
  - to participate in providing input and cooperating with NIST
  - in ongoing coordination, acceleration and harmonization of standards development for the Smart Grid



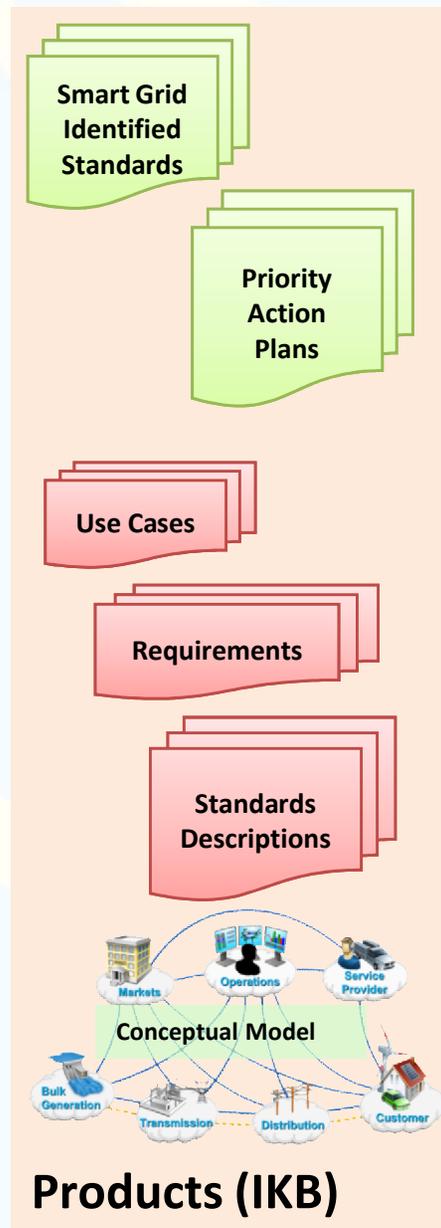
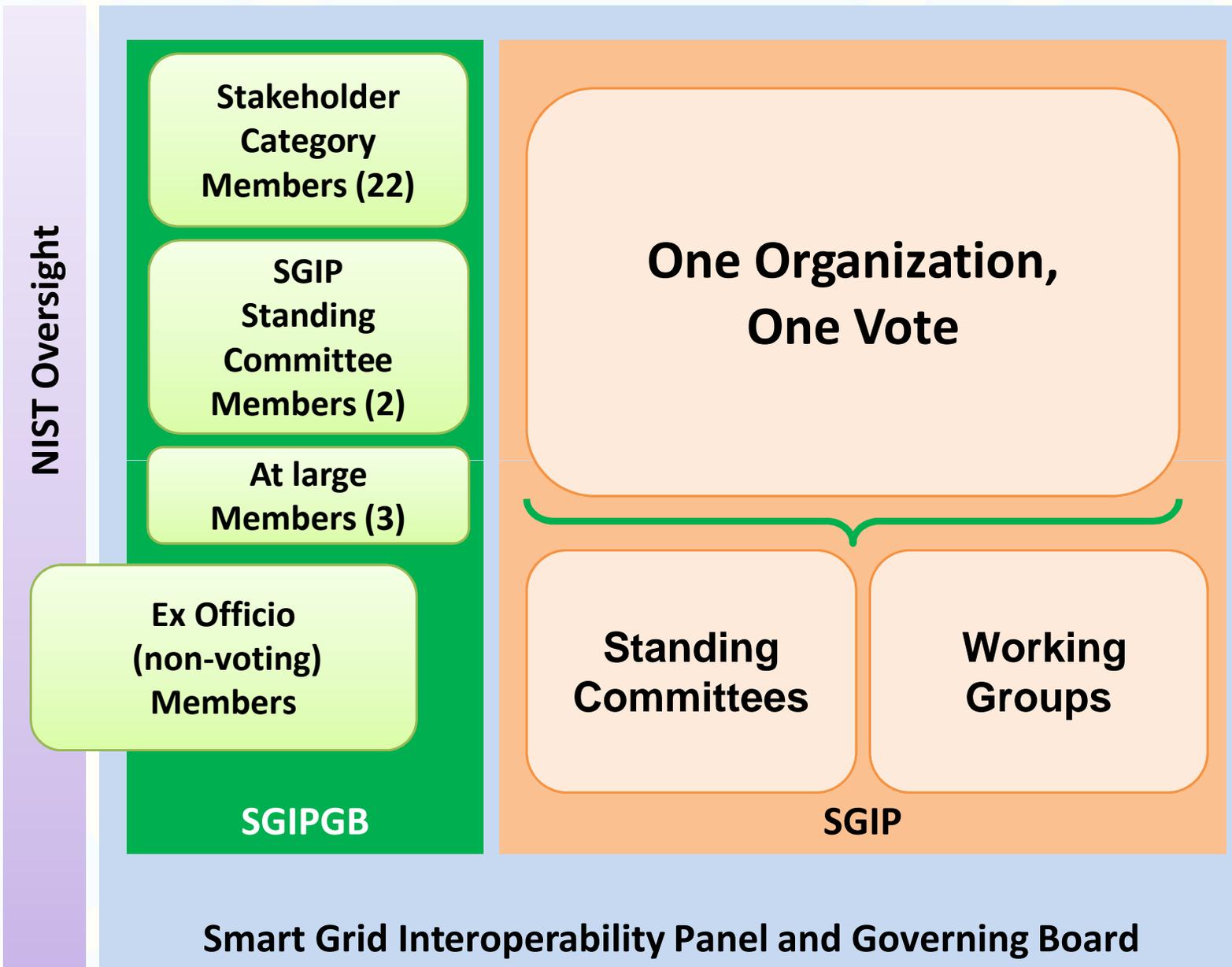
# SGiP Vision

- Public-private partnership
- **Supports NIST EISA responsibility**
- Open, transparent body
- Representation from all smart grid stakeholder groups
  - Open to any materially interested stakeholder organizations
  - Not dominated by any one group
- SGiP does not directly develop or write standards
  - Stakeholders participate in the ongoing coordination, acceleration and harmonization of standards development.
  - Reviews use cases, identifies requirements, coordinates conformance testing, and proposes action plans for achieving these goals.





# SGIP Structure



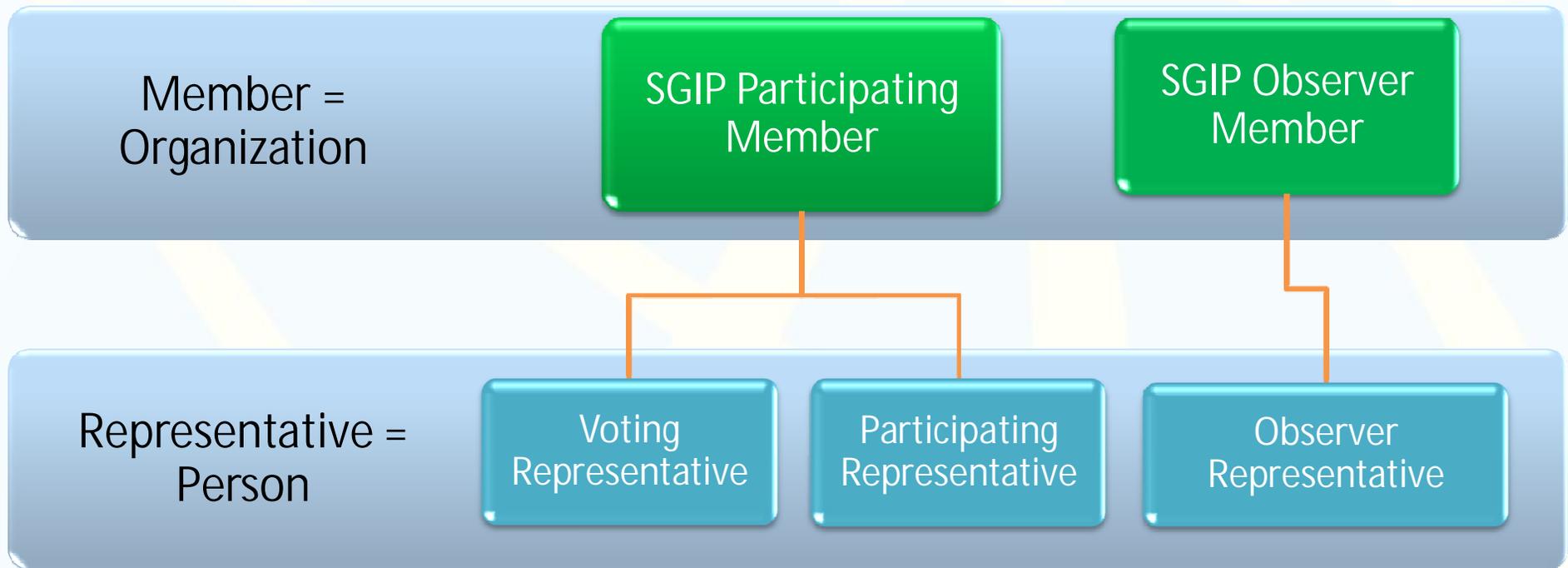


# SGIP Stakeholder Categories

1	Appliance and consumer electronics providers	12	Power equipment manufacturers and vendors
2	Commercial and industrial equipment manufacturers and automation vendors	13	Professional societies, users groups, trade associations and industry consortia
3	Consumers – residential, commercial and industrial	14	R&D organizations and academia
4	Electric transportation industry stakeholders	15	Relevant federal government agencies
5	Electric utility companies – Investor Owned Utilities (IOU) and publicly owned utilities	16	Renewable power producers
6	Electric utility companies - municipal (MUNI)	17	Retail service providers
7	Electric utility companies - Rural Electric Association (REA)	18	Standard and specification Development Organizations (SDOs)
8	Electricity and financial market traders (includes aggregators)	19	State and local regulators
9	Independent power producers	20	Testing and certification vendors
10	Information and communication technologies (ICT) infrastructure and service providers	21	Transmission operators and Independent System Operators (ISOs)
11	Information technology (IT) application developers and integrators	22	Venture capital



# Terminology and Membership Hierarchy



- 1 Participating Organization = 1 Participating Member = 1 Vote = 1 Category
- 1 Observer Organization = 1 Observer Member = 0 Vote
- Member may have 1 or more Representatives
- Representative may be:
  - Voting – person who works on SGIP efforts and is designated to vote
  - Participating – person who works SGIP efforts but does not vote
  - Observer – person who reviews SGIP artifacts



# SGIP: Governing Board Vision

- Maintains a broad perspective of the NIST Interoperability Framework and supports NIST
- Provides guidance and tools that make it an impartial and practical resource for SG stakeholders
- Members representing a broad community based on breadth of experience and involvement
  - Each stakeholder community represented on Governing Board
  - Additional at-large and ex-officio members
  - Nominating committee process in steady state
- Consensus is a core value
  - All legitimate views and proposals are considered





# Governing Board Candidates

- “Distinguished Representatives”
- Extensive experience in 1 or more stakeholder categories
- Visionary
  - excellent communication skills
  - build good will
  - forge relationships
- Ability to support overall SGiP and NIST goals
  - rather than parochial self interest
  - support fiduciary responsibilities of a board
- 5-15% time commitment – attend meetings





# Agenda

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5:00 PM	Adjourn	

**NOTE:** These Bylaw slides are summaries ONLY. For the actual text, refer to the charter document.



# Introduction

- Assumption – you have read the charter
  - We will not do a deep dive
- What we will cover
  - Review of Charter scope, purpose, intent and principles
  - Member terminology review
  - Source material for Charter and By Laws
  - The drafting team
  - Review process
  - Revision history
  - Community input statistics
  - Differences between published revisions





# Scope, Purpose and Intent

- A forum for discussing and coordinating standards
- Enlists involvement from a variety of stakeholders
- Describes and prioritizes clear, practical steps
- Maintains and extends the Smart Grid Conceptual Model
- Distributes results through an Interoperability Knowledge Base
- Assesses conformity through a structured, open framework
- Publishes work on the NIST Smart Grid Collaboration Site
- **Provides input to NIST to support their EISA 2007 defined role**



## Out of Scope

- Does not write or publish standards
- Is not a government organization
- Does not design, promote or sell products





# Principles

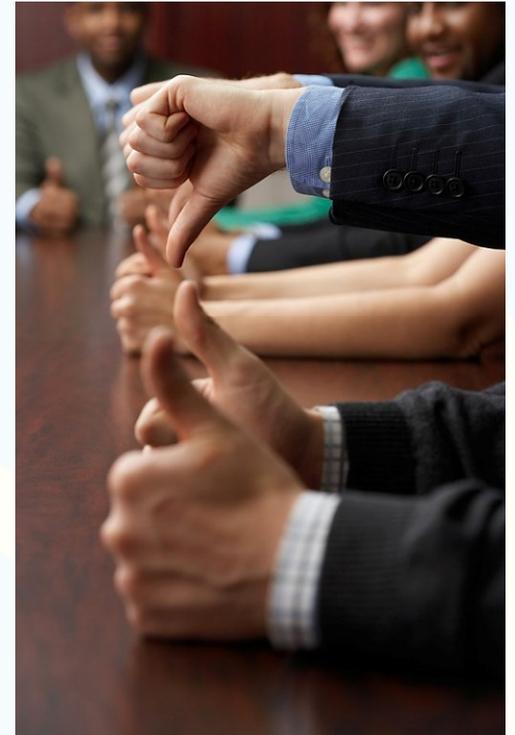
- Openness
  - All minutes of all meetings posted
  - All meetings open to the public
  - All votes publicly recorded
- Balance
  - Membership by organization, not individual
  - Governing Board elections by stakeholder category
- Consensus
  - Preferred method of resolution
  - See charter for voting rules
- Harmonization
  - SDOs and others make proposals to close standards gaps
  - SGiP analyzes offerings and suggests solutions
  - NIST may use the results to help fulfill their obligations under the EISA





# Participating Members

- Participating Member representatives **can**:
  - Submit proposed requirements and other contributions
  - Contribute to committees and working groups
  - Vote on work restricted to participating members
  - Withdraw in writing at any time
- Participating Members **are obligated to**:
  - Participate in meetings (skip 2 consecutive, lose vote)
  - Review documents and provide comments
  - Participate in executing specific Priority Action Plans
  - Comply with the Charter and Bylaws
- Participating Members **are represented by**:
  - Multiple representatives (need not be employees)
  - Exactly one voting representative
  - Unique representatives (not shared by organizations)
- Requires membership agreement





# Observer Members

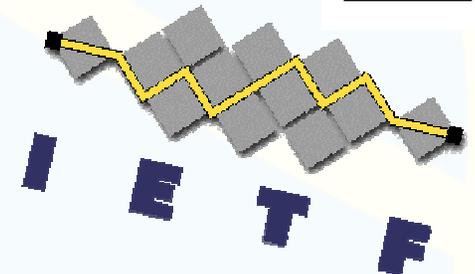
- Observer Member representatives **can**:
  - Attend meetings
  - Review documents
  - Do so without commitment
  - Withdraw in writing at any time
- Observer Members **cannot**:
  - Vote on the work of the SGiP
- Observer Members **are represented by**:
  - Multiple representatives, if desired
- Still requires a membership agreement





# Origins of the Charter and Bylaws

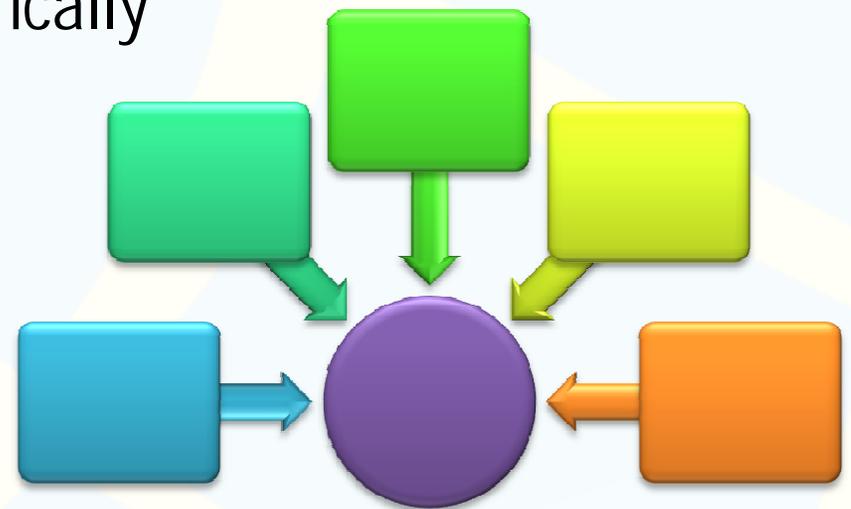
- Reviewed several analogs
  - The DOE GridWise Architecture Council
  - The IETF
  - Health Information Technology Standards Panel – HITSP
  - IEEE, ANSI orgs
  - Others
- GWAC turned out to be a good anchor – but a lot of elements from others merged in
- Try to keep complexity low and appropriate for a unincorporated associations





# Drafting Team

- EnerNex staff and subcontractors
  - The IEEE is a key subcontractor and resource for the effort
  - Responsible for research and producing drafts
- Advisors
  - Input was sought in verbal and written form from all entities specifically identified in the EISA
  - NIST staff
  - Others as needed





# Review Process

- Multiple drafts produced and published for internal and public review
- Complete internal drafts were shared early in the process with several organizations named in the EISA and others with relevant expertise to obtain detailed, written feedback
- Ongoing NIST team and legal review
- Three public Webinars
- Posting on the Twiki and in Federal Register Notice soliciting public comment
- All comments received addressed in real time on Twiki and incorporated as appropriate in subsequent drafts





# Charter Revision History

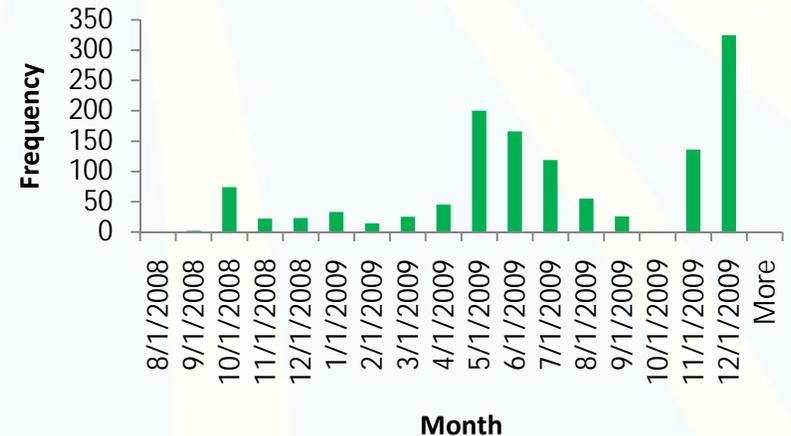
2009		Revs	Milestones
Aug	23	•••	Brainstorming of requirements, research
	30	•	Input from EEE SG meeting
Sept	6	•••	First draft, elevator speech
	13	••••	Version 1.0 for NIST review
	20		NIST review period
	27	•	NIST comments, merge panel and board docs
Oct	4	••	More NIST comments, webinar Oct 9
	11	•••	<b>First Public Draft posted Oct 15</b>
	18		Public comment period
	25		Webinar Oct 28
Nov	1	•	Incorporating public comments
	8	••••	<b>Release of draft for vote, webinar Nov 12</b>
	15		SGiP Inaugural Meeting Nov 16



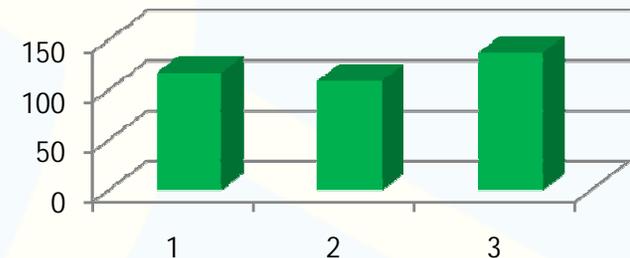
# Community Input Statistics

- Number of people viewing the relevant Twiki page (page views)
  - 20,000 views in November
- Number of people commenting on Twiki
  - 59 comments from 38 source many were extensive
- Number of comments received from Webinars
  - 363
- Number of revisions
  - 18

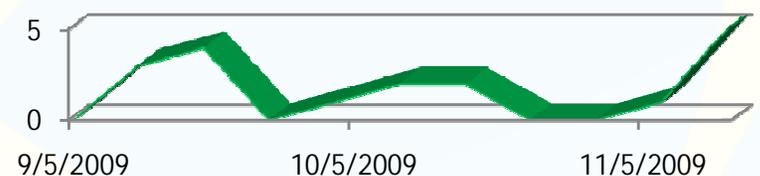
### Rate of Twiki Registrations



### Webinar Comments



### Number Of Charter Revisions





# Recent Version Differences

- Key Differences from October 15 version and Friday Nov 12 version
  - Clarify role of the Administrator
  - Clarify criteria for evaluation of GB candidates
  - Clarify definition of an organization
  - Included web-based participation
  - Quorum via electronic registration
  - Added Cyber Security as a permanent working group
  - Extended and revised stakeholder categories



# Recent Version Differences

- Key Differences from Friday Nov 13 version and Saturday, Friday Nov 14 version being voted upon today
  - Clarifications and rationale for NIST Role and Administrator Role
  - Removal of redundant and inconsistent descriptions of Voting in non-voting sections
  - Clarification of copyright issues



# Conclusion

- A highly visible, transparent process with multiple mechanisms for input and comment was used to develop the Charter and Bylaws based on similar associations
- Perfection is unlikely at first, but is good enough to better guide the work already in progress
- Once the SGiP exists, changes to the bylaws can and likely will be made
- The organization it creates has no inherent power or authority
  - Is advisory in nature
  - Does not write or publish standards
  - Is not a government organization
  - Does not design, promote or sell products
- Its success and viability is dependent on the good will and cooperation of the participants





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# Ratification Process

## Who May Vote?

- Any Voting Representative of a Participating Member
- Must have signed a membership agreement

## Where to Vote?

- At Grid-Interop with a ticket from help desk, OR:
- Online at <http://collaborate.nist.gov/twiki-sgrid/bin/view/SmartGrid/SGIPCharterVotingMainPage>

## When to Vote?

- Before 3:00 Mountain Time Monday Nov 16
- Votes tallied 3:00 – 3:30

## What to Vote?

- Vote is simple Yes/No
- 50% "Yes" vote to pass – no quorum requirement
- A "No" vote means we can't proceed with elections



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# Candidates in Categories 1-3

Num	Category	Name	Title and Organization
1	Appliance and consumer electronics providers	<b>Brian Markwalter</b>	VP, Technology & Standards, Consumer Electronics Association
		<b>Matthew Williams</b>	Director of Standards, Association of Home Appliance Manufacturers
2	Commercial and Industrial equipment manufacturers and automation vendors	<b>Ric Jackson</b>	Executive Director, FIATECH
		<b>Tariq Samad</b>	Corporate Fellow, Automation and Control Solutions (ACS), Honeywell
3	Consumers – Residential, Commercial, and Industrial	<b>Judy Roell</b>	Financial Advisor
		<b>Todd Rytting</b>	President and CEO, Panasonic Electric Works Laboratory of America



# Candidates in Categories 4-5

Num	Category	Name	Title and Organization
4	Electric transportation industry stakeholders		<b>(None on ballot)</b>
5	Electric utility companies – Investor Owned Utilities (IOU) and Publicly Owned Utilities	<b>George Bjelovuk</b>	Managing Director – Marketing, Research & Program Development, American Electric Power
		<b>Patrick M. Duggan</b>	Research and Development Project Manager, Consolidated Edison Company of NY, Inc.
		<b>Ed Goff</b>	Enterprise Architect - IT&T Security, Progress Energy
		<b>Randy Huston</b>	SmartGridCity Program Delivery Executive, Xcel Energy, Inc.
		<b>James Sheppard</b>	Director of Business Processes, CenterPoint Energy
		<b>Gary Stuebing</b>	Strategic Planning Manager, Duke Energy
		<b>Joseph Waligorski</b>	Delivery Operations Technical Manager, FirstEnergy Corporation



# Candidates in Categories 6-9

Kenneth Van Meter	Category	Name	Title and Organization
6	Electric utility companies - Municipal (MUNI)	<b>Michael Hyland</b>	Vice President, American Public Power Association
7	Electric utility companies – Rural Electric Association (REA)	<b>Bob Saint</b>	MultiSpeak Program Manager, National Rural Electric Cooperative Association (NRECA)
8	Electricity and financial market traders (includes aggregators)	<b>(None on ballot)</b>	
9	Independent power producers	<b>Kenneth Van Meter</b>	Principal, Lockheed Martin's Energy Solutions



# Candidates in Categories 10-11

Num	Category	Name	Title and Organization
10	Information and communication technologies (ICT) Infrastructure and Service Providers	<b>Skip Ashton</b>	Senior Vice President of Engineering, Ember Corporation
		<b>Chris Hill</b>	Vice President for Mobility Product Management, AT&T
		<b>Mark Klerer</b>	Sr. Director – Technology, Qualcomm, Inc
		<b>Matthew Theall</b>	Technology Strategist, Intel Corporation
11	Information technology (IT) application developers and integrators	<b>Vint Cerf</b>	Vice President and Chief Internet Evangelist , Google, Inc.
		<b>Tim Enwall</b>	President and COO, Tendril Networks
		<b>Jim Hunter</b>	Founder & CTO, 4Home, Inc.
		<b>Tom Marble</b>	CTO, Smart Technology Partners, Inc.
		<b>Ken Oshman</b>	Echelon Corporation
		<b>Philip Panagos</b>	Boeing Energy Services
		<b>Richard Shockey</b>	Principal, Shockey Consulting



# Candidates in Category 12

Num	Category	Name	Title and Organization
12	Power equipment manufacturers and vendors	<b>Sandy Bacik</b>	Security Manager, Conservation Solutions, Sensus
		<b>Ed Beroset</b>	Director of Technology and Standards, Elster Electricity, LLC
		<b>Dave Dolezilek</b>	Technology Director, Schweitzer Engineering Laboratories, Inc.
		<b>Gerard Havasy</b>	Retired Engineer, General Electric
		<b>Lawrence Jones</b>	Director, Smart Grid Strategy, North America, Areva T&D Inc.
		<b>Richard Koehl</b>	Director of Alternative Energy Products, Kohler Company – Global Power Group
		<b>Michelle Mindala-Freeman</b>	VP, Marketing and Product Management, Landis+Gyr
		<b>Robby Simpson</b>	System Architect, GE Energy
		<b>Le Tang</b>	Vice President and Head of US Corporate Research Center, ABB Inc.



# Candidates in Category 13

Num	Category	Name	Title and Organization
13	Professional societies, users groups, trade associations and industry consortia	<b>Greg Ennis</b>	Technical Director, Wi-Fi Alliance
		<b>Robert Heile</b>	Chairman, ZigBee Alliance
		<b>Claudio Lima</b>	Smart Grid Managing Director, Sonoma Innovation
		<b>Wayne Longcore</b>	Director of Enterprise Architecture & Standards , Consumers Energy
		<b>David Owens</b>	Executive Vice President, Business Operations, Edison Electric Institute
		<b>Jeremy Roberts</b>	Technical Director, LonMark International
		<b>Andrew Updegrove</b>	Gesmer Updegrove LLP



# Candidates in Category 14

Num	Category	Name	Title and Organization
14	R&D organizations and academia	<b>Rajesh Gupta</b>	Professor and Qualcomm Endowed Chair, Computer Science and Engineering, University of California, San Diego
		<b>Mladen Kezunović</b>	Eugene E. Webb Professor, Texas A&M University
		<b>Brian Lopez</b>	Computer Scientist , Lawrence Livermore National Laboratory
		<b>Xavier Mamo</b>	Department Director , EDF International North America
		<b>Mary Ann Piette</b>	Staff Scientist, Research Director - PIER Demand Response Research Center, Lawrence Berkeley National Lab
		<b>Steve Widergren</b>	Pacific Northwest National Laboratory



# Candidates in Categories 15-17

Num	Category	Name	Title and Organization
15	Relevant Federal Government Agencies	<b>Jack Grobe</b>	Deputy Director for Engineering and Corporate Support, U.S. Nuclear Regulatory Commission
		<b>Perry Pederson</b>	Security Specialist, U.S. Nuclear Regulatory Commission
16	Renewable Power Producers	<b>Chris Knudsen</b>	Director, Technology Innovation Center, Pacific Gas & Electric Company
		<b>Ken Langer</b>	President , EMSI
		<b>John Nunneley</b>	Executive Director, SunSpec Alliance
17	Retail Service Providers	<b>Brent Hodges</b>	Director, Strategy and Business Development, Reliant Energy



# Candidates in Categories 18

Num	Category	Name	Title and Organization
18	Standard and specification development organizations (SDOs)	Chuck Adams	IEEE
		Cheryl Blum	Vice-President Standards and Business Development, Telecommunications Industry Association
		Lee Burgett	Consultant, Ingersoll Rand/Trane
		John Caskey	Sr. Director – Power Equipment Division, National Electrical Manufacturers Assoc. (NEMA)
		Laurent Liscia	Executive Director, OASIS
		Rae McQuade	President , North American Energy Standards Board (NAESB)
		Susan Miller	President & CEO, ATIS
		Scott Neumann	Chief Technology Officer, Utility Integration Solutions, Inc.
		Katherine Voss	ODVA, Inc.



# Candidates in Categories 19-21

Num	Category	Name	Title and Organization
19	State and local regulators	<b>Paul Centolella</b>	Commissioner, Public Utility Commission of Ohio
		<b>Michael Gravely</b>	Manager, Energy Systems Research Office, California Energy Commission
20	Testing and Certification Vendors	<b>Rik Drummond</b>	Chief Executive Officer and Chief Scientist, Drummond Group Inc.
		<b>Ted Osinski</b>	Dir. RFID Programs, MET Laboratories, Inc.
		<b>Rudi Schubert</b>	Director - Conformity Assessment Programs , IEEE Industry Standards & Technology Organization (IEEE-ISTO)
		<b>John Thompson</b>	Director of the UL Primary Designated Engineer staff, Underwriters Laboratories
21	Transmission operators and Independent System Operators	<b>Jamshid Afnan</b>	Vice President Information Services / Information Technology, ISO New England, Inc.
		<b>Michael Ingram</b>	Senior Manager of Demand Response , Tennessee Valley Authority



# Candidates for "At Large" Membership

Num	Category	Name	Title and Organization
	At Large	<b>Frederick Baker</b>	Fellow, Cisco Systems
		<b>Jesse Berst</b>	Managing Director, GlobalSmartEnergy
		<b>Joseph Bucciero</b>	President and Executive Consultant, Bucciero Consulting, LLC
		<b>Larry Cochrane</b>	Utilities Industry Technology Strategist and Architect , Microsoft
		<b>Paul De Martini</b>	Vice President, Advanced Technology, Southern California Edison
		<b>Roger Levy</b>	Levy Associates
		<b>John McDonald</b>	General Manager, Marketing, GE Energy
		<b>Mark McGranaghan</b>	Director, Distribution and Smart Grid Research, EPRI
		<b>Terry Mohn</b>	VP, Chief Innovation Officer, Balance Energy a BAE Systems Initiative
		<b>Paul Molitor</b>	Director, Smart Grid, National Electrical Manufacturers Association
		<b>David Pacyna</b>	Senior Vice President & General Manager, NAFTA Transmission & Distribution Divisions, Siemens Energy Inc
		<b>Steven Pullins</b>	President, Horizon Energy Group
		<b>Richard Schomberg</b>	IEC Smart Grid Chair
		<b>Ken Wacks</b>	Management and Engineering Consultant
		<b>David Watson</b>	Sr. Program Manager, Lawrence Berkeley National Lab



# Voting: Log in to Twiki Site

Voting URL is <http://collaborate.nist.gov/twiki-sggrid/bin/view/SmartGrid/SGIPGBVotingMainPage>

The screenshot shows a web browser window titled "(TWiki login) SGIPGBVotingMainPageTest < Sandbox < TWiki - Windows Internet Explorer". The address bar contains the URL "http://collaborate.nist.gov/twiki-sggrid/bin/login". The page content includes the Twiki logo with the text "collaborate with TWiki". Below the logo is a login form with the heading "Please enter your username and password". The form has two sections: "Username" with a text input field and a "Help" link, and "Password" with a text input field and a "I forgot my password" link. A "Logon" button is located below the password field. At the bottom of the form, there is a message: "If you have any questions, please contact [sgwikisupport@nist.gov](mailto:sgwikisupport@nist.gov)". The browser's status bar at the bottom shows "Internet" and "100%".



# Voting: Read the Rules

A screenshot of a Windows Internet Explorer browser window. The address bar shows the URL: http://collaborate.nist.gov/twiki-sggrid/bin/view/Sandbox/SGIPGBVotingMainPageTest. The page title is "SGIPGBVotingMainPageTest &lt; Sandbox &lt; Twiki". The browser's search bar contains "Wikipedia (English)". The page content includes a "Smart Grid" header with a search bar and "design provided by Twiki". Below the header is a "Sandbox" section with "Edit" and "Attach" buttons. A sidebar on the left contains navigation links like "Hello Grant Gilchrist", "Log Out", "Create personal sidebar", "Sandbox Web", "Create New Topic", "Index", "Search", "Changes", "Notifications", "RSS Feed", "Statistics", "Preferences", "Webs", "Main", "Sandbox", "SmartGrid", and "TWiki". The main content area has a breadcrumb trail: "You are here: Twiki &gt; Sandbox Web &gt; SGIPGBVotingMainPageTest (2009-11-04, MartyBurns)". The main heading is "Welcome to the Smart Grid Interoperability Panel Voting Page". Below this is a paragraph: "This is the Smart Grid Interoperability Panel voting page for Governing Board members." There are two sections: "Definitions:" with a bulleted list of terms like "Participating Member", "Voting Member Representative", and "Participating Member Representative - non-voting representatives"; and "Rules:" with a bulleted list of rules, including "A Voting Member Representative shall be registered on Twiki" and "A Voting Member Representative shall have submitted a signed membership agreement". The browser's status bar at the bottom shows "Done", "Internet", and "100%".



# Voting: Pick a Category

The screenshot shows a web browser window with the following content:

**To register a valid vote, the Voting Member Representative must complete the following steps:**

1. On this page, select a Stakeholder Category by clicking on its title (**Your organization's choice of stakeholder category is chosen by this act**) -- this will take you to the ballot page.
2. On the ballot page, select one Stakeholder representative candidate.
3. On the ballot page, select three different At Large representative candidates.
4. Select the submit button -- after a brief delay, your ballot is registered and the ballot will clear your choices.
5. Your vote has now been registered. If you amend your vote by repeating this process, the new vote will supercede previous ones.

**Please select from the following stakeholder categories:**

Select Your Stakeholder Category	Description
<a href="#">1 Appliance and consumer electronics providers</a>	Manufacturers of consumer appliances and devices such as thermostats, televisions, dishwashers, refrigerators, residential scale HVAC.
<a href="#">2 Commercial and Industrial equipment manufacturers and automation vendors</a>	Manufacturers of controls and the actual energy consuming equipment for air conditioning, industrial processes, lighting, etc...
<a href="#">3 Consumers – Residential, Commercial, and Industrial</a>	Consumers using energy for heating, air conditioning, cooking, water heating, and other residential uses in single and multi-family dwellings and apartments and mobile homes, commercial buildings and industrial



# Voting: Select Your Choices

**Sandbox** Edit Attach

Hello [Grant Gilchrist](#)  
Log Out  
- Create personal sidebar

**Sandbox Web**  
Create New Topic  
Index  
Search  
Changes  
Notifications  
RSS Feed  
Statistics  
Preferences

**Webs**  
Main  
Sandbox  
SmartGrid  
TWiki

**You are here:** TWiki > Sandbox Web > SGIPGBVotingMainPageTest > VoteCategory2  
(2009-11-04, MartyBurns)

## Vote for SGIPGB Board -- Category 2: Commercial and Industrial equipment manufacturers and automation vendors

Use the ballot below to register your vote for SGIPGB board. Note that you may revise your vote by repeating this process but only the final vote will count. Before registering the vote with the "Cast Ballot" button, check the following:

- you have a selection for Stakeholder Category Member
- you have a selection for each of three At Large Category Members
- you have a different candidate in each of the three At Large selections

Select Stakeholder Category Member	Select ...
Select At Large Choice 1	Select ...
Select At Large Choice 2	Select ...
Select At Large Choice 3	Select ...

**Cast Ballot**

**One in your category** (points to the first dropdown)

**Three at Large** (bracketed around the three 'At Large' dropdowns)

**Then VOTE** (points to the 'Cast Ballot' button)



Thank you!



# Contact Information

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**NIST Smart Grid Team**

[smartgrid@nist.gov](mailto:smartgrid@nist.gov)

**SGIP Administrator**

[SGIP.administrator@enernex.com](mailto:SGIP.administrator@enernex.com)

For all email, please use "SGIP:" at start of subject line