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2 SGIP 2.0 Business Sustainment Plan (v1.0)

3 Roadmap to the Future of Smart Grid Interoperability

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10 *The SGIP Governing Board formed the Business Sustainment Plan Working*
11 *Group (“Plan”) to initially develop a proposal for moving the SGIP forward with*
12 *significantly reduced government financial support. We refer to the new*
13 *organization as SGIP 2.0. This Plan describes the new organization, the scope*
14 *of its activity (including continued support of NIST to carry out its EISA*
15 *mandate), and the potential sources of revenue to support to the new*
16 *organization.*

17 *This working draft of the Plan is being provided to the SGIP stakeholder*
18 *community for two purposes:*

- 19 *a) Provide a “preview” of the Plan that is under development and is being*
20 *considered as the path forward*
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- 22 *b) Solicit feedback and comments on the working draft Plan.*
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This WORKING DRAFT document was prepared by the Business Sustainment Plan Work Group (“BSPWG”).

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II. BSPWG Chairperson: *Scott Ungerer*

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2 **SGIP 2.0 Business Sustainment Plan (Version 1.0)**
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5 **FOREWARD** [Get opening quotes from as many of the following as possible]

- 6 a) President Obama
7 b) Sec of DOE
8 c) Chairperson of FERC
9 d) Chairperson of NARUC
10 e) Sec Dept. of Commerce
11 f) Head of NIST
12 g) NERC
13 h) Any of the international organizations with whom SGIP has a LOI
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16 **1) History**
17

18 Under the Energy Independence and Security Act of 2007 (EISA), the National
19 Institute of Standards and Technology (NIST) is assigned the “primary
20 responsibility to coordinate development of a framework that includes protocols
21 and model standards for information management to achieve interoperability of
22 Smart Grid devices and systems...” [EISA Title XIII, Section 1305]. EISA, which
23 designates development of a Smart Grid as a national policy goal, specifies that
24 the interoperability framework should be “flexible, uniform, and technology
25 neutral.” The law also instructs that the framework should accommodate
26 “traditional, centralized generation and distribution resources” while also
27 facilitating incorporation of new, innovative Smart Grid technologies, such as
28 distributed renewable energy resources and energy storage.

29 No appropriation of funds was provided, and NIST co-hosted the November 2008
30 Grid-Interop meeting with the Gridwise® Architecture Council in order to begin
31 the identification of stakeholders in the Smart Grid community. Five workshops
32 were held in the areas of Home-to-Grid (H2G), Building-to-Grid (B2G), Industry-
33 to-Grid (I2G), Transmission & Distribution (T&D) and Business & Policy (B&P) in
34 order to generate dialogue among existing stakeholders to identify key
35 interoperability standards activities required in order to make the Smart Grid a
36 reality. From these workshops, the respective Domain Expert Working Groups
37 (DEWGs) were formed.

38 In February of 2009, the American Recovery and Reinvestment Act of 2009 (ARRA)
39 was enacted, which provided funding to NIST to carry out its EISA mandate. ARRA
40 included \$4.4 Billion in stimulus funding for Smart Grid investment and
41 demonstration projects.

42 Recognizing the urgency, NIST developed a three-phase plan for moving forward.
43 In the **first phase**, NIST retained the services of the Electric Power Research
44 Institute (EPRI) to facilitate three public workshops, in April, May and August 2009,
45 in which more than 1,500 individuals representing hundreds of organizations

1 participated. NIST also consulted with stakeholders through extensive outreach
2 efforts carried out by the Office of the National Coordinator for Smart Grid
3 Interoperability. In May 2009, U.S. Secretary of Commerce Gary Locke and U.S.
4 Secretary of Energy Steven Chu chaired a meeting of nearly 70 executives from
5 the power, information technology, and other industries at which these executives
6 expressed their organizations' commitment to support the plan established by
7 NIST to meet its EISA responsibility. The effort culminated in the *NIST Framework
8 and Roadmap for Smart Grid Interoperability Standards, Release 1.0*. It describes a
9 high-level conceptual reference model for the Smart Grid, identifies 75 existing
10 standards that are applicable (or likely to be applicable) to the ongoing
11 development of the Smart Grid, specifies 15 high-priority gaps and harmonization
12 issues (in addition to cyber security) for which new or revised standards and
13 requirements are needed, documents action plans with aggressive timelines by
14 which designated standards-setting organizations (SSOs) will address these gaps,
15 and describes the strategy to establish requirements and standards to help ensure
16 Smart Grid cyber security.

17 The **second phase** of the NIST plan was formally launched in November 2009. It
18 involved an ongoing organization and consensus process that was formalized
19 under the Smart Grid Interoperability Panel (SGIP). The SGIP is a public-private
20 partnership that provides an organizational structure to support the continuing
21 evolution of the framework. By mid-December 2009, one month after it was
22 established, the SGIP membership exceeded 400 organizations divided among 22
23 stakeholder categories, and today more than 700 organizations are members of
24 the SGIP, which we will refer to as SGIP 1.0.

25 The **third, and final, phase** of the NIST plan is to create a robust, ongoing, "built-
26 in" standards process that supports cycle after cycle of Smart Grid innovation and
27 helps to transform our economy. From the outset, NIST realized that this was a
28 long-term effort and envisioned the transition of the SGIP from a public-private
29 partnership to a self-financed, legal entity that retains partnership with
30 government. The SGIP Governing Board formed the Business Sustainment Plan
31 Working Group to develop a proposal for moving the SGIP forward as a self-
32 sustaining organization, which we will refer to as SGIP 2.0. This proposal
33 describes the new organization, how it will continue to assist NIST to carry out its
34 EISA mandate, and how it will advance interoperability to enable Smart Grid
35 deployments worldwide.

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39 **2) SGIP 1.0 (2009-2012)**

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41 **a) Examples of accomplishments**

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44 After being formed at the Grid-Interop meeting in December, 2009, the SGIP
45 matured into a fully functional organization with many activities moving forward in
46 parallel, supported by operational processes and a management structure. Some
47 of the highlights of the past 3 years are included below.

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- i) The SGIP continues to identify and address standards gaps through a priority action plan (PAP) process, that speeds the pace of standards development. Since its creation, the SGIP has supported 20 PAPs. One priority issue, SEP 1.x to SEP 2.0 Transition and Coexistence, was identified as a critical problem that the SGIP Governing Board determined should be addressed through the PAP process. The resulting work guides implementers with a migration or coexistence path between SEP 1.x and SEP 2.0. The work was completed in just 6 months.
 - ii) The establishment of the Catalog of Standards (CoS) was a major accomplishment for the SGIP. The CoS will provide a compendium of standards and guides that are relevant to advancing interoperability in Smart Grid deployments. The CoS is being populated by the results of the PAP activities as well as material from the reviews of existing relevant Smart Grid standards that characterize the entries for practitioners, integrators, and other interested parties.
 - iii) The SGIP's PMO created and refined the Priority Action Plan (PAP) lifecycle process which streamlines the work of the PAP Working Groups into a common methodology and set of deliverables. Common reporting from PAPs allows problems to be caught early and resources to be assigned to manage them. The PMO oversees all SGIP project activities and provides the project discipline and commonality that keep project members focused on the work that needs to be done, and the process to bring entries into the CoS.
 - iv) In July, 2011, the Federal Electricity Regulatory Commission (FERC) endorsed NIST and the SGIP process stating:
"We believe that the best vehicle for developing Smart Grid interoperability standards is the NIST interoperability framework process, including the work of the SGIP and its committees and working groups. This work includes harmonization and extensions of existing Smart Grid interoperability standards as well as the development of new standards. The SGIP brings together Smart Grid stakeholders from numerous industries and areas of expertise to guide the development of Smart Grid interoperability standards within the context of the NIST interoperability framework process."
 - v) The SGIP standing committees have set the groundwork for the coordination of issues that cross-cut the PAPs and the Smart Grid stakeholder domains. The Architecture Committee (SGAC) has refined a reference architecture, and developed a conceptual model for organizing Smart Grid interoperability issues. The Testing and Certification Committee (SGTCC) has set the foundation for interoperability testing. This includes an Interoperability Process Reference Manual that brings together the best practices for achieving standards-based, interoperable and conformant Smart Grid technologies. The Cyber Security Working Group (CSWG) developed NISTIR 7628, which presents an analytical framework that organizations can use to develop effective cyber security strategies tailored

1 to their particular combinations of Smart Grid-related characteristics, risks,
2 and vulnerabilities.
3

4 vi) As part of the SGIP's flexible architecture and evolutionary philosophy, we
5 have established several working groups to address specific Smart Grid
6 interoperability challenges.

7 (1) The SGIP started with six domain expert working groups (DEWGs):
8 Home to Grid, Building to Grid, Industrial to Grid, Transmission and
9 Distribution, Vehicle to Grid, and Business and Policy. Over the last two
10 years, a Distributed Renewables, Generators, and Storage group was
11 formed in addition to the Electromagnetic Interoperability Issues
12 working group. These groups have developed whitepapers and
13 spawned PAPs, on such topics as wind integration, an energy services
14 interface, and the integration of home appliances.
15

16 (2) Green Button – introduced as a challenge by former White House CIO,
17 Aneesh Chopra, and the SGIP took the concept to reality in 5 months.
18 The idea leverages work originally performed in PAP 10, allowing the
19 challenge to be met through implementation of the NAESB Energy
20 Usage Information and ESPI Standard. The idea is already being
21 embraced and utilized by numerous utilities nation-wide and
22 developers are continuing to explore innovative products and services
23 around it, creating jobs and new markets and also enabling consumers
24 to better understand their energy usage and subsequently manage it in
25 a more efficient way. All this was enabled by the platform of
26 interoperability constructed by the SGIP.
27

28 vii) Since inception the following have been achieved:

29 (1) 12 standards to better facilitate interoperability due to SGIP activity
30 have been added to Catalog of Standards in 12 months from 7 different
31 SSOs
32

33 (2) 63 standards reviewed by the Cyber Security Working Group
34

35 (3) 20 standards reviewed by Smart Grid Architecture Committee
36

37 (4) 20 PAPs initiated; 6 PAPs completed
38

39 (5) 5 international Letters of Intent of Cooperation

40 (a) European Union

41 (b) Korea

42 (c) Japan

43 (d) Ecuador

44 (e) Columbia (in process)
45

46 **b) Organizational Structure**
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- 1 i) The SGIP 1.0 is managed by NIST with day-to-day technical and operational
2 support provided by both a contract Program Administrator and the
3 voluntary Plenary Officers.
4
- 5 (1) list of NIST responsibilities
6 (a) NIST is responsible for monitoring the SGIP Administrator contract
7 resources and contractor performance
8 (b) NIST has an ex-officio position on the Governing Board, as stated in
9 the bylaws
10 (c) The chair of the CSWG and the vice-chair of the SGTCC are NIST
11 staff, as stated in the Bylaws
12 (d) NIST has a representative on the SGIP Plenary Leadership team and
13 on the SGIP PMO, on the CME WG, and on the MarComm
14 Committee.
15 (e) In most cases, NIST provides a lead for PAP working groups and
16 DEWGs.
17 (f) NIST reviews all LOIs with other organizations
18 (g) NIST reviews all marketing and public affairs documents prior to
19 their release
20 (h) NIST provides the NIST Smart Grid Collaboration Wiki for use by
21 the SGIP and the public.
22
23
- 24 (2) list of Program Administrator responsibilities
25 (a) planning, logistics and support of SGIP Face-to-Face (“F2F”)
26 meetings
27 (b) planning, logistics and support of SGIP Governing Board Face-to-
28 Face (“F2F”) meetings
29 (c) planning, logistics and support of SGIP Voting
30 (d) planning, logistics and support of SGIP membership services
31 (e) Enforce Bylaws and Operating procedures
32 (f) Develop, support and maintain web sites, including the
33 collaborative Twiki and list servers for SGIP membership
34 (g) Establishes and maintains email list serves for the various groups
35 within the SGIP
36 (h) Provide administrative support to NIST as required
37 (i) Facilitate committee and working group operations
38 (j) arranges technical expert resources to carry out PAPs and other
39 directed activities.
40 (k) Supports communications and marketing (booths, training material,
41 announcements, handouts, coordination with CME WG).
42
43
- 44 (3) Plenary officers operational oversight of Program Administrator
45 (a) Plans for plenary events and communications
46 (b) Reviews PAP and WG requests
47 (c) Helps package material for GB review and approval
48 (d) Coordinates leadership of committees and working groups
49 (e) Resolves membership issues

- 1 (f) Proposes and enacts operational changes (e.g., CoS, document
2 branding, new WG and committees)
3
- 4 (4) SGIP 1.0 receives the full benefits of being federally sponsored while
5 being subject to federal regulations and guidelines
6
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- 8 ii) A Governing Board has been established with certain responsibilities and
9 authority
- 10 (1) The SGIP is guided by a Governing Board that approves and
11 prioritizes work programs. The Governing Board's responsibilities
12 include facilitating a dialogue with standards development
13 organizations to ensure that the action plans can be implemented.
14 The SGIPGB provides guidance to the SGIP. This guidance includes a
15 broad perspective of the NIST Interoperability Framework and
16 Roadmap vision. The Administrator reports on progress by
17 maintaining the Smart Grid Roadmap, and ensures all SGIP
18 documents are openly available in an online Interoperability
19 Knowledge Base.
20
- 21 (2) Composition:
- 22 (a) 22 seats elected by each of the membership categories
23 (b) 3 'at large' seats elected by entire membership
24 (c) 6 ex officio seats
25 (i) 1 - NIST
26 (ii) 4 - Membership Committee Chairpersons
27 (iii) 1 - Program Administrator
- 28 (3) Created four working groups
- 29 (a) Business and Operating Procedures Work Group
30 (b) Communication, Marketing and Education Working Group
31 (c) Intellectual Property Rights Working Group
32 (d) Vision, Mission and Road Map Working Group
33
- 34 iii) plenary
- 35 (1) Chairperson – elected by the Governing Board,
36 (2) Vice-Chairperson – elected by the membership
37 (3) Secretary - elected by membership
38
- 39 iv) Membership activity organized by:
- 40 (1) Four standing committees/working groups
41 (a) Smart Grid Architecture Committee
42 (b) Smart Grid Testing and Certification Committee
43 (c) Cyber Security Working Group
44 (d) Smart Grid Implementation Methods Committee
45 (2) Domain Expert Working Groups
46 (3) Priority Action Plans
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- 48 c) Charter and Bylaws – version 1.4 available on SGIP Twiki
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3) SGIP 2.0 (2013 and beyond)

a) **Preamble:** why is the transition necessary?

Since the formation of the SGIP in 2009, the activity of the SGIP by NIST personnel and member volunteers has been supported and enabled by the work of a Program Administrator that has been fully funded by NIST in the approximate amount of \$5 to 7 million per year; a significant portion of those funds came from the ARRA program. However, NIST always intended that the SGIP would transition from a federally funded organization to a public-private partnership that relies on non-governmental funding.

At the December 2011 SGIP Governing Board meeting, George Arnold, National Coordinator for Smart Grid Interoperability at NIST, requested the SGIP Governing Board to begin planning for the SGIP's transition into a legal entity funded primarily by the private sector and with a continuing, but reduced level of federal funding beginning January 2013. He emphasized that NIST will continue to be actively engaged as a partner with the private sector in the work of SGIP. To assist the SGIP in the transition, NIST tasked the Program Administrator with preparation of a document that shares thoughts and options for the transition. The current form of the SGIP 1.0 is a *society of members* which really has no formal legal structure, and thus lacks the ability to enter into contracts or raise revenue from any source. While this form is sufficient for SGIP 1.0 due to the sponsorship by and relationship with NIST, it is not an adequate form for SGIP 2.0.

b) **Mission**

i) ***RECOMMENDATION BY BSPWG*** - keep basically the same as SGIP 1.0 (just a few wording changes)

The mission of the SGIP is to provide a strong framework for coordination of all stakeholders of the Smart Grid to accelerate standards harmonization and development. The SGIP does not write standards, but instead develops and reviews use cases, identifies requirements, identifies gaps and overlaps on existing standards affecting the Smart Grid and proposes action plans for achieving coordination.

The SGIP has four principal responsibilities:

- 1 (1) To provide the technical guidance necessary to facilitate standards
2 development and coordination for the Smart Grid
- 3 (a) To identify and specify the necessary testing and certification
4 requirements, including providing the underlying rationale, to assess
5 the achievement of interoperability using Smart Grid Standards
- 6 (2) To oversee the performance of these activities to maintain momentum
7 and achievement
- 8
- 9 (3) To support the acceleration of the deployment of the Smart Grid.
10

11 **ii) ALTERNATIVES CONSIDERED**

- 12
- 13 (1) Slightly reduced scope in some areas
- 14 (2) Slightly expanded scope in some areas, including, but not limited to:
15 (a) adding coordinated membership activity on business/commercial
16 topics
17 (b) expanding the international emphasis
- 18 (3) Combinations of the above two
19

20

21 **c) Principles**

- 22
- 23 i) **RECOMMENDATION BY BSPWG** – very similar to SGIP 1.0 but recognizes
24 that SGIP 2.0 is not a fully federally funded organization that provides free
25 access and participation to anyone.

26

- 27 (1) Openness

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29 The work of the SGIP 2.0, including the Board of Directors and all Board
30 and Membership working groups and committees, will be open for
31 review by the SGIP 2.0 Membership as follows (but subject to the
32 features and benefits that are defined for each level of Membership):

- 33 (a) All minutes of all meetings will be posted on the Membership
34 portal.
- 35 (b) All documents and drafts under discussion will be posted on the
36 Membership portal.
- 37 (c) All meetings are open to Membership attendance.
38

39 (2) Balance

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41 The SGIP 2.0 will be organized on the principle of balancing
42 representation across multiple industry segments related to electric
43 energy and the technology necessary to effectively manage it. The
44 design of the organization will enable it to:

- 45 (a) Carry out its mission effectively,
- 46 (b) Provide leadership throughout the Smart Grid Stakeholder
47 community.

1 (c) In an attempt to encourage continued broad participation, any fee
2 assessments/dues of the Membership will attempt to properly
3 recognize the differences in the ability of various organizations to
4 pay for membership
5

6 **{NOTE TO DRAFT: other than changes to voting created by the**
7 **newly defined membership categories and the privileges**
8 **associated with each category (see the “Membership Dues” section**
9 **below), no other changes to voting have been included to bring**
10 **further “balance” as described herein}**

11
12 (3) Consensus
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14 Consensus is a core value of the SGIP 2.0. For purposes of the SGIP 2.0,
15 consensus means the general agreement by all of the Members. The
16 process of the SGIP 2.0, including the SGIP 2.0 Board of Directors and all
17 Board and Membership Working Groups and Committees, requires the
18 respective Chairs to ensure consideration of all views, proposals and
19 objections, and to endeavor to reconcile them. Where consensus is not
20 possible, the SGIP 2.0 will strive to make decisions that are supported
21 by the available information and to document opposing views or
22 abstentions.
23

24 The achievement of consensus will be based on thorough examination of
25 issues, including the discussion of dissenting opinions and the
26 attempted resolution of disagreements. Consensus will be preferred to
27 resolve all issues brought before the SGIP 2.0.
28

29 However, achieving the goals of SGIP 2.0 in a timely fashion will not
30 always allow consensus to be achieved. Accordingly, when a
31 disagreement exists that cannot be resolved; a vote will be taken to
32 reach a timely decision.
33

34 **{NOTE TO DRAFT: no changes to voting have been included to**
35 **ensure “balance” is achieved across the membership for every vote**
36 **taken. It has also been pointed out that the BOPWG has done some**
37 **work on this topic as well. }**
38

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41 (4) Harmonization

42 The SGIP process encourages harmonization among standards.
43 Decisions are relevant and effectively respond to regulatory and market
44 needs, as well as technological developments to achieve essential
45 interoperability characteristics.
46

47 For any standard gap, interested SDOs will prepare a justification to
48 present to the SGIP relative to how the standard fits into their
49 organization, and how they will position their work to support
50 interoperability and integrate with other NIST-identified standards for

1 Smart Grid. The SGIP, or working group thereof, can then select from
2 these offerings to identify a work project.

- 3
4 ii) **ALTERNATIVES CONSIDERED:** the main theme of discussions was a range of
5 keeping everything open to the public (as in SGIP 1.0) versus more limited
6 access and participation for various levels of membership.
7

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11 d) **Newly Defined “SGIP 2.0 Positioning Statement & Value Proposition”**
12

13 A vital SGIP role is to successfully transition from public sector funding to
14 private sector revenue support, in order to do so the BSPWG believes that it will
15 be necessary to rely on membership fees for the majority of that support, at
16 least initially. Accordingly, it will be essential to design a membership
17 structure that clearly provides value to those that will be asked to join and pay
18 annual fees to the SGIP 2.0, while at the same time protecting the principles
19 listed above. The following describes the proposed value proposition that the
20 BSPWG suggests SGIP 2.0 should present to the marketplace.
21

22 **[NOTE TO DRAFT: from the effort being led by David Milenthal and**
23 **supported by the Administrator and the CMEWG]**
24

25 Our electric industry is now investing \$400 billion to revamp and modernize our
26 electric system and develop a digital security blanket to protect our nation from
27 cyber terrorism. Federal and state governments and industry are looking to the
28 Smart Grid Interoperability Panel (SGIP) to identify key standards by which
29 components of the system can work together - from generation, to transmission,
30 to distribution, to the electric end user. To truly develop a seamlessly
31 interoperating Smart Grid, the Members of the SGIP assume the ultimate
32 responsibility to resolve standards issues and gaps between different
33 organizations. By focusing on standard identification and their interoperability,
34 the SGIP accelerates the digital modernization of the grid and expands
35 dependent markets. As a Member organization, you have an equal seat and
36 valued voice in shaping the standards that directly impact your organization's
37 ultimate success and your career.

38 Though there are many informal gatherings and alliances involved in
39 modernizing America's new energy infrastructure efforts, the SGIP is the
40 central organization that the government and industry are looking to ensure
41 there is a robust interoperable foundation. In addition, advancing the
42 integration of the Smart Grid technologies for the betterment of the electric
43 systems is a global issue. All stakeholders who wish to play a role in building,
44 operating or using Smart Grid technologies will find it important to participate.

- 45 • SGIP is the central organization that Federal and state governments and
46 industry look to in order to identify, shape and close the gaps in
47 standards so that a seamless interoperable Grid can be put in place.
48

- 1 • SGIP is cited by the Federal Energy Regulatory Commission (FERC) as
2 the venue that all stakeholders should look to for guidance on the
3 standards to be used in developing the modern grid. It is the place with
4 the ultimate information across all segments of the power system and
5 will provide members the knowledge to compete effectively in the
6 marketplace.
7
- 8 • SGIP is the only organization with the full spectrum of industry group
9 members that meet together to build an official consensus around
10 interoperable standards. All seven integrated domains of the power
11 system--customers, markets, service providers, operations, bulk
12 generation, transmission and distribution are represented by a total of
13 22 different industry segments that must work together to build a
14 modern, efficient grid.
15
- 16 • SGIP is the primary organization that brings federal and state regulators
17 and the industry together to informally discuss all aspects of Smart Grid
18 development and the appropriate economics to make the Smart Grid a
19 reality. A special Advisory Council of State Regulators will be formed to
20 work closely with the industry to accelerate the affordable
21 implementation of the Smart Grid.
22
- 23 • SGIP is the authority in identifying standards for the Smart Grid through
24 its Catalogue of Standards; the definitive guide to the standards that are
25 embraced by the overall SGIP industry in order to achieve
26 interoperability.
27
- 28 • SGIP is the only organization with the member capacity to build a
29 credible peer-to-peer certification process that assures the effectiveness
30 and capability of products and services to be truly interoperable.
31

32
33 i) **ALTERNATIVE CONSIDERED** – none
34

35 e) **Legal Structure**
36

37 i) **RECOMMENDATION BY THE BSPWG** – the BSPWG retained the services of
38 an attorney with many years of experience with over a hundred standards
39 setting organizations and industry trade groups to assist in evaluating
40 available legal structures and selecting the one that appears to be most
41 suited for achieving success.
42

43 SGIP 2.0 will be formed as a not-for-profit membership organization
44 under Delaware law that will apply for tax exemption under IRS Code
45 Section 501(c)(6). A 501(c)(6) organization is a business league,
46 including trade associations and professional associations, devoted to
47 the improvement of business conditions of one or more lines of business
48 of a common interest.

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The key elements of an entity of the type recommended, annotated to reflect the current situation, are as follows:

- (a) A short Membership Application, which serves as a data collection tool, and as a legal contract binding the applicant to pay dues and abide by the Bylaws and policies of the organization.
- (b) The Certificate of Incorporation, which is a document of several pages length that includes those governance and other terms that must be contained in this (publicly available) document.
- (c) The Bylaws, which in this case would represent a melding of the existing SGIP Bylaws, various statutory-compliance sections (e.g., designation of fiscal year, principal office and registered agent in the state of incorporation) and additional, beneficial terms made possible by incorporation (e.g., indemnification of officers and directors). The Bylaws would also contain the text establishing the member classes, and the privileges and obligations of each class.

Additional documentation necessary to govern and guide the organization would traditionally be included in a variety of policies and other documents that are not legally required to exist at the time that an entity of the kind contemplated is launched. However, it would be advisable, if possible, to have these documents in place at the time that memberships are solicited. Each would be adopted, and could be amended, by the Governing Board, unless decided otherwise:

- (a) Intellectual Property Rights Policy
- (b) Antitrust Policy
- (c) Various policies that the IRS now expects tax-exempt entities to adopt (Conflict of Interest, Whistleblower, Document Retention, Financial Oversight, Compensation Policy and Joint Venture Participation)
- (d) Rules of Procedure for the Committee process

ii) **ALTERNATIVES CONSIDERED** – given the current expected scope of activity within the SGIP 2.0, the following were deemed not necessary at this time but may be necessary in the future if conditions arise that warrant their creation

- (1) subsidiary foundation: the 501(c)(6) should be qualified to receive donations or grants from most organizations; however if the internal rules of an entity require a different structure from SGIP 2.0, we can decide upon the formation of a foundation or other suitable entity at that time.

Many people believe a 501(c)3 structure is required to receive donations; these folks also argue that even if it only perception, it may be enough reason to form the foundation at the be inception of SGIP 2.0. However, 501(c)(3) organizations are subject to greater oversight at the

1 state level, which would result in additional compliance and filing
2 obligations not required of trade associations.
3

- 4 (2) wholly owned “for profit” taxable subsidiary to sell products and
5 services created by SGIP 2.0, or enter into joint ventures with other
6 companies for the ultimate economic benefit of the SGIP members.
7

8 The reason for creating such an additional entity would be that under IRS
9 rules, the new activities either could not be undertaken without
10 jeopardizing SGIP's tax exempt status (because they would be activities
11 ordinarily undertaken for profit) and/or because they would generate
12 too much taxable income relative to the membership-fee derived
13 income (which needs to be over 50%). Such an organization is not
14 expected to be needed in the initial phase of SGIP 2.0's existence, but
15 may be easily put in place when and if the need later arises.
16
17

18 **f) Management Structure**

19
20 i) ***RECOMMENDATION BY THE BSPWG –***

- 21
22 (1) The day-to-day leadership provided by NIST and its contractor, the SGIP
23 1.0 Program Administrator, will be transferred in SGIP 2.0 to a full time
24 dedicated Executive Director under the supervision and guidance of the
25 SGIP 2.0 Board of Directors.
26

27 This person will ideally be a recognized and well respected senior
28 executive with relevant experience in the Smart Grid industry. An
29 additional value would be someone that is currently involved with the
30 SGIP 1.0.
31

32 There has been much discussion about whether this position should be
33 an “outward facing” public relations role or an “inward facing”
34 managerial role. The SGIP 2.0 needs a senior spokesperson to advocate
35 the merits of interoperability across the industry, to create a compelling
36 position (and role) for SGIP 2.0 within the industry and thus provide, and
37 deliver, a compelling value proposition to the SGIP 2.0 membership.
38 This spokesperson will most likely be the Executive Director. If it is the
39 Executive Director, then additional program management is needed to
40 help manage the day-to-day operational aspects of the SGIP 2.0.
41

42 To conduct the day-to-day activities of the SGIP 2.0, it is contemplated
43 that the Executive Director will select and manage both a small full time
44 staff and a larger set of outsourced resources. The decision between the
45 amount of staff and the amount of outsourced resources will be based on
46 several factors:
47

- 48 (a) the amount of revenue ,
49 (b) the certainly/predictability of revenue ,

- 1 (c) the base level of effort required and the variable level of effort
- 2 required,
- 3 (d) a cost comparison of alternatives including the more subjective
- 4 assessment of pros/cons of alternatives.
- 5

6 The list of functional areas that must be resourced, managed and

7 coordinated (including both employees and outsourced resources) are:

8

- 9 (a) technical champions(see Section 2.h).(4) for a detailed
- 10 explanation), and/or technical experts and/or other suitable
- 11 liaisons with organizations;
- 12 (b) administrative support for Board and Membership Committees,
- 13 Work Groups, Task Forces and related activities
- 14 (c) accounting/finance/legal
- 15 (d) document/artifact management
- 16 (e) membership recruitment, retention, engagement
- 17 (f) public relations, communications and education
- 18 (g) meetings/conferences logistical planning, support and execution
- 19

20 **{NOTE TO DRAFT: because of the size of the SGIP 2.0**

21 **membership, can we cost effectively align the dates/locations**

22 **of the SGIP 2.0 Face-to-face meetings with other existing other**

23 **conferences rather than our own conferences, such as: industry**

24 **organizations, NARUC, user groups, other Smart Grid or power**

25 **industry related conferences, etc.; SGIP 2.0 management will**

26 **be encouraged to work directly with other organizations in an**

27 **attempt to secure the best arrangements with conference**

28 **planning organizations, facilities, etc.}**

29

- 30 (2) Because SGIP 2.0 will be pursuing ambitious goals on an ambitious
- 31 schedule, it will need top-quality staff. Because it will not be able to
- 32 provide equity incentives (as in for-profit companies), it will need to
- 33 offer very competitive salary, bonus and benefits to senior staff hires in
- 34 order to ensure that it can access the talent that it will need.
- 35
- 36 (3) One advantage to using an out-sourced management company will be
- 37 the ability to utilize their own back office staff to service many functions,
- 38 and also their benefit packages, which staff dedicated to SGIP 2.0, will
- 39 have access to.
- 40

41

42

43 **ii) ALTERNATIVES CONSIDERED:**

44

- 45 (1) Total outsourcing: while this remains a viable option, the Board of
- 46 Directors would need to be convinced that substantial cost savings were
- 47 immediately achievable to offset:
- 48 (a) the enhanced performance that may be achieved by a
- 49 focused/dedicated effort of a small staff selected with skills directly
- 50 aligned with SGIP 2.0 activities, and

1 (b) any conflicts, perceived or real, that may accompany an
2 outsourced option and jeopardize the 'feel' of independence or
3 neutrality of the operations management function.
4

5 (2) Full time staff only: this may be a viable option for the future, once a
6 stable level of both funding and resource requirements are known, but
7 is believed to not be a practical solution at this phase of the transition.
8
9

10
11
12 **g) Governance Structure**

13
14 **i) *RECOMMENDATION BY THE BSPWG –***

15
16 (1) Although day-to-day activities will be conducted and managed by the
17 Executive Director, the new legal structure requires a Board of Directors
18 that needs to perform all of the roles traditionally associated with such
19 an organization; these roles are essentially being covered by a
20 combination by NIST and/or the SGIP 1.0 Program Administrator. At the
21 same time, the current roles of the SGIP 1.0 Governing Board will also
22 need to be performed.
23

24 Normally, a large board is not considered an asset. In order to most
25 efficiently manage the new responsibilities that must be assumed, while
26 preserving the broad representation of stakeholders that is an important
27 virtue of the SGIP, a variety of Board Committees will be formed. In
28 addition, the SGIP 1.0 Plenary Officer positions will be assumed by the
29 officers selected by the Board.
30

31 (a) The number of board seats remains roughly the same to help
32 support/maintain the desired broad representation of membership
33

34 (i) Nominations are submitted from the Membership to
35 Nominating & Governance Committee

36 (ii) 22 membership categories: each category elects its own

37 (iii) 3 at-large: elected by full Membership

38 (iv) 1 Executive Director

39 (v) Ex officio

40 1. Chairpersons of the following:

41 a. Smart Grid Architecture Committee

42 b. Smart Grid Testing and Certification Committee

43 c. Smart Grid Cyber Security Committee {NOTE name
44 change}

45 d. Smart Grid Implementation Methods Committee

46 2. 2 government:

47 a. NIST

48 b. DOE
49

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(b) Responsibilities: **[NOTE TO DRAFT: most of these are a direct lift form the existing SGIP 1.0 documents]**

(i) Guide the SGIP in executing its mission of developing standards-based interoperability technology and best practices by integrating the needs, ideas and priorities expressed by a broad Stakeholder base;

(ii) Approve work program for the SGIP, including formation of Priority Action Plans (PAPs);

(iii) Provide guidance for SGIP to recommend standards based on SGIP activities;

{NOTE TO DRAFT: this is a direct lift from existing SGIP charter/bylaws, but it is somewhat unclear}

(iv) Ensure SGIP effectively maintains and evolves the NIST/SGIP Smart Grid Conceptual Model to provide more detail and depth so it can serve as a reference model for implementation architectures

(v) Engage and encourage Stakeholders to agree on a common path toward achieving standards-based interoperability using the conceptual and reference models;

(vi) Engage Stakeholders to encourage growth in the use of standards-based architectures and implementation designs;

(vii) Oversee the activity of the standing Membership Committees:
1. Smart Grid Architecture Committee
2. Smart Grid Cyber Security Committee {NOTE name change}
3. Smart Grid Implementation Methods Committee
4. SGIP Testing and Certification Committee and framework.

(viii) Elects from the Board members:
1. Chairperson,
2. Vice-Chairperson & President (formerly Plenary President),
3. Vice-Chairperson (formerly the Plenary Vice Chairperson),
4. Secretary
5. Treasurer

(ix) approves annual SGIP 2.0 business plan

(x) review, modify if needed and approve recommendations from Board Committees as defined below

1 (xi) Board of Director members should sit on at least one Board
2 Committee but not more than two.
3
4
5

6
7 (2) Executive Committee of the Board
8

9 (a) Members are elected by the majority of the Board
10

11 (b) [5] voting seats plus Executive Director

12 (i) Must include the Chairperson

13 (ii) Eligibility:

14 1. Board members only

15 2. Other qualifications: <TBD>
16

17 (c) list of responsibilities

18 (i) Oversees development of the detailed annual SGIP 2.0
19 Business Plan, including:

20 1. Long range strategic plan,

21 2. [5] year financial forecast

22 3. 1 year detailed operating budget, and

23 (ii) Oversees the overall operations of SGIP 2.0

24 (iii) Hosts an annual face-to-face meeting with the following to
25 present the Business Plan and receive feedback:

26 a. NIST (and the NIST Smart Grid Federal Advisory
27 Committee that will provide NIST with its
28 perspective)

29 b. An open meeting for each stakeholder category (or
30 some combination thereof) led by the Executive
31 Director and the Board Member representing that
32 stakeholder category.

33 c. Other organizations as deemed appropriate by the
34 committee
35

36 (iv) Monitor SGIP 2.0 financial performance

37 (v) Executive Director performance review and compensation

38 (vi) Review proposals for new revenue sources

39 (vii) Review and approve the annual report to members

40 (viii) Responsible for international Smart Grid affiliations {formerly
41 the International TF}
42

43
44 (3) Technical Committee of the Board
45

46 (a) Members are elected by the majority of the Board
47

48 (b) [10] voting seats

49 (i) one must be the Vice Chairperson & President

- 1 (ii) one must be the category 5 Board member- Electric Utilities,
2 both IOU and publicly owned
3 (iii) one must be either the category 6 (MUNI) or category 7 (REA)
4 Board member
5 (iv) Eligibility:
6 1. At least 2 others must be Board members
7 2. Platinum Members only
8 3. <TBD>
9
- 10 (c) Ex officio:
11 (i) NIST representative
12 (ii) DOE representative
13
14
- 15 (d) List of responsibilities:
16 (i) Routinely, and in a timely manner, prioritize and allocate the
17 use of the technical expertise funded in the annual budget
18 based on requests from PAPs, DEWGs, etc.
19 (ii) Oversight of the entire PAP process
20 (iii) Oversight of the PMO function
21 (iv) Oversee the operation of the Membership Committees and
22 subcommittees:
23 1. Smart Grid Architecture Committee
24 2. Smart Grid Testing and Certification Committee
25 3. Smart Grid Implementation Methods Committee
26 4. Smart Grid Cyber Security Committee {NOTE name
27 change}
28 5. Electromagnetic Interoperability Issues Work Group
29 6. DEWGs
30
- 31 (4) Audit Committee of the Board
32
33 (a) Members are elected by the majority of the Board
34
35 (b) [5] voting seats – Board members only
36 (i) Must include the Treasurer
37 (ii) Eligibility: <TBD>
38
39 (c) List of responsibilities:
40 (i) select external auditor review and
41 (ii) approve quarterly financial statements
42 (iii) review/approve annual financial report
43 (iv) selection of D&O insurance
44
- 45 (5) Nominating & Governance Committee of the Board
46
47 (a) Members are elected by the majority of the Board
48
49 (b) [5] voting seats – Board Members only
50 (i) Eligibility: <TBD>

- 1
- 2 (c) [5] non-voting seats
- 3 (i) Platinum Members only
- 4 (ii) Eligibility: <TBD>
- 5
- 6 (d) List of responsibilities:
- 7 (i) Assumes the work performed by the SGIP 1.0 Bylaws and
- 8 Operating Plan Work Group
- 9 (ii) Reviews slate of nominees for various positions and develops
- 10 slate of candidates to fill open positions
- 11 (iii) Assumes the work performed by the SGIP 1.0 Intellectual
- 12 Property Rights Work Group
- 13
- 14 (6) Membership & Marketing Committee of the Board
- 15
- 16 (a) Members are elected by the majority of the Board
- 17
- 18 (b) [5] voting seats – Board Members
- 19 (i) Eligibility: <TBD>
- 20
- 21 (c) [5] non-voting seats
- 22 (i) Platinum Members only
- 23 (ii) Eligibility: <TBD>
- 24
- 25 (d) List of responsibilities (assumes expanded roles of CMEWG):
- 26 (i) Oversees the membership recruitment, retention and
- 27 engagement function
- 28 (ii) Oversees the marketing, communication and education
- 29 function
- 30 (iii) Oversees the F2F meeting plan and execution
- 31

32 In summary, the Board of Directors and the Board Committees provide
33 oversight and guidance to the organization managed by the Executive
34 Director, and for clarity, they do NOT have day-to-day operational
35 responsibility. Day-to-day operations are managed by the Executive Director
36 using a combination of hired staff, outsourced resources and/or member
37 volunteers.

38

39 ii) **ALTERNATIVES CONSIDERED –**

- 40 (1) utilize the existing structure of SGIP 1.0
- 41
- 42 (2) not all supported the identified “required” members of the Technical
- 43 Committee, alternatively supported the “required” membership of
- 44 manufacturing firms or IT companies.
- 45

46 h) **Membership Activity**

47

48 i) **RECOMMENDATION BY THE BSPWG –**

- 49
- 50 (1) Same as SGIP 1.0 (except for any impacts of item (4) below):

- 1 (a) Smart Grid Architecture Committee
- 2 (b) Smart Grid Testing and Certification Committee
- 3 (c) Smart Grid Implementation Methods Committee
- 4 (d) Smart Grid Cyber Security Committee {NOTE new name}
- 5 (e) Electromagnetic Interoperability Issues Work Group
- 6

7 (2) Domain Expert Working Groups (DEWGs) will transition to the 'industry
8 norm' of being self-led and self-managed multi-stakeholder networking
9 communities on specific topics – H2G, B2G, etc. The common
10 community aspect could lead to separate meetings/events, special topic
11 sponsorships, etc. Outputs from these communities could be position
12 papers, standards gaps for the Technical Committee of the Board to
13 consider, etc.

- 14 (a) SGIP 1.0 had either NIST or the Program Administrator providing a
15 technical expert to lead and/ or facilitate each DEWG
- 16 (b) In SGIP 2.0, each DEWG will elect a Chairperson, vice-chairperson
17 and Secretary from its Membership (eligibility requirements defined
18 by membership level); these positions will lead the activities of each
19 DEWG. The selection of well-qualified chairmen, whose employers
20 have committed to allow them to dedicate the time these positions will
21 demand will ensure that the DEWGs will continue to function
22 efficiently. NIST expects it will continue to be able to provide a similar
23 level of direct support from NIST personnel for leadership and
24 facilitation roles as it does in SGIP 1.0.

25
26
27 **{NOTE TO DRAFT: is there work product that can be produced**
28 **by a DEWG that has value to the industry, the regulatory**
29 **community, and others such as: white papers, lessons learned,**
30 **open forum to ask questions/get answers from experts? Are**
31 **there any potential revenue sources?}**
32

33 (3) Priority Action Plans (PAPs)

- 34 (a) PAP Proposal Process remains the same except:
 - 35 (i) Board of Directors replaces the Governing Board
 - 36 (ii) Technical Committee of the Board replaces the Plenary
37 Officers
 - 38 (iii) [NOTE TO DRAFT: what is the role of the Executive Director?]
- 39 (b) PAP Lifecycle Process remains the same except:
 - 40 (i) Board of Directors replaces the Governing Board
 - 41 (ii) Technical Committee of the Board replaces the Plenary
42 Officers
 - 43 (iii) [NOTE TO DRAFT: what is the role of the Executive Director?]
- 44
- 45

46 (4) Technical Champions:

- 47 (a) in SGIP 1.0, NIST has provided, either directly with its own staff or
48 through its Program Administrator, up to [15?] Technical Champions at

1 any single point in time to accelerate SGIP activities and provide the
2 following levels of support to SGIP activities:

- 3 (i) Subject Matter Experts – technical writing, specification
4 development, etc.
- 5 (ii) Responsible for all the day-to-day activities of the PAPs and other
6 subprojects
 - 7 1. Follow Project Management Office processes developed for
8 managing SGIP projects
 - 9 2. Provide current status of SGIP projects on Tike pages
 - 10 3. Manage/chair technical working groups, tiger teams, task
11 teams, and ad-hoc teams
 - 12 4. Develop plans and presentation materials for meetings
 - 13 5. Execute the project objectives
 - 14 6. Identify, communicate, and escalate issues and concerns
15 when necessary
 - 16 7. Coordinate with chairs and NIST leads regularly
- 17 (iii) Provide technical expertise and specialized, targeted skills to
18 support specific activities within the SGIP
- 19 (iv) Coordination and embedded resources for SSOs/SDOs on
20 standards development efforts
- 21 (v) Develop technical reports, white papers, and reviews for
22 standards-related efforts
- 23 (b) In SGIP 2.0,
 - 24 (i) NIST expects it will continue to be able to provide a similar level
25 of direct support from NIST personnel for leadership and
26 facilitation roles as it does in SGIP 1.0
 - 27 (ii) SGIP 2.0 will encourage its Members to provide “volunteer”
28 Technical Champions as needed
 - 29 (iii) The Board of Directors will determine the level of funding
30 available to hire (directly or through contract) Technical
31 Champions
 - 32 (iv) Based on recommendations from the Executive Director (or the
33 Executive Director’s staff), the Technical Committee of the Board
34 will prioritize the use of the funds available for Technical
35 Champions based on requests from the various SGIP activities
 - 36 (v) Supplemental funding for specific areas/topics -
37 If the Technical Committee of the Board has not provided funding
38 for use of a Technical Champion on a specific project, a single
39 Member (or Group of Members) may provide supplemental
40 funding earmarked for a specific area/topic provided that ALL
41 OTHER ASPECTS OF THE SGIP PAP PROPOSAL AND LIFECYCLE

1 PROCESSES ARE FOLLOWED (AND NO ADVANTAGE IS GIVEN
2 TO THOSE FUNDING THE CHAMPION). In the appropriate case,
3 the Technical Committee will consider accepting dedicated
4 employees (at least ½ time) in lieu of membership fees.

5 **{NOTE TO DRAFT: details for the process to accept and**
6 **allocate the supplemental need further definition; examples**
7 **are: OpenSG acceleration projects funding (like ASAP) or**
8 **EPRI's supplemental funding concept.}**

9 (5) Business dialogue/activity – the membership of SGIP is very unique in that it
10 encompasses a very broad set of stakeholders across the entire Smart Grid
11 value chain. SGIP 2.0 should explore the interest of the members to broaden
12 the membership activity to include items that are more “business and/or
13 market oriented”, such things as:

- 14 (i) Sharing of “lessons learned” from the implementation of Smart
15 Grid projects;
- 16 (ii) Sharing/development of business cases for Smart Grid
17 implementation;
- 18 (iii) Shared promotion of Smart Grid [Interoperability] (including
19 common definitions, generic benefits, etc.) through such
20 activities as creation of a speakers bureau, creation of common
21 marketing materials for use by members, etc.
- 22 (iv) Shared education on the value of the Smart Grid for consumers
23 and other stakeholder groups;
- 24 (v) And other activities typically conducted by other consortia that is
25 of specific benefit to its membership.

26
27 **ii) ALTERNATIVES CONSIDERED –**
28

- 29 (1) A level of Technical Champion support similar to SGIP 1.0 was discussed
30 and deemed too costly, at least until further clarity of the level of
31 revenue is achieved.
- 32
33 (2) The “supplemental funding” concept is still a very open topic. The
34 concern centered on the ability for specific members to have undue
35 advantage in promoting activity specific to themselves. However, the
36 requirement to adhere to the existing proposal and lifecycle processes
37 is deemed as an adequate counterbalance.
- 38

- 39
40 (3) Some believe that work products from the DEWGs should be available
41 to all members without charge.
- 42
43

44
45 **i) SGIP & the Standards Organizations**
46

47 **i) RECOMMENDATION BY THE BSPWG –**
48

- 1 (1) SGIP does not currently set standards; the work of the SGIP results in the
2 "shaping" of standards that are created, or need to be created, by many
3 other existing organizations.
4
- 5
- 6 (2) SGIP identifies important applications or activities within the Smart Grid
7 (e.g. Electric Vehicle car charging) then conducts a detailed assessment
8 of how that application/activity is performed, including: what existing
9 standards, whether there are technological gaps that need to be filled
10 by a new standard or an extension to an existing standard (or are there
11 complementary standards involved that handle requirements
12 differently)., In either situation new requirements and all relevant
13 stakeholders are identified with the sole purpose of collaborating to
14 ensure interoperability of all of the devices being used,;
15
- 16 (3) In SGIP 1.0, the network of Technical Champions serves as a primary
17 conduit of information to the standards organizations by virtue of their
18 pre-existing relationships with those organizations. This informal, but
19 effective, communication method has served SGIP well and is credited
20 by NIST as being a true catalyst in getting the SGIP message across to
21 the impacted standard setting organizations;
22
- 23
- 24 (4) If SGIP 2.0 does not retain the services of the same Technical Champions
25 as in SGIP 1.0, then SGIP 2.0 will need to develop a method for
26 effectively working with the affected standards organizations to ensure
27 that the requirements developed by the SGIP are adequately addressed
28 and implemented..
29

30 **ii) *ALTERNATIVES CONSIDERED -***
31

- 32 (1) SGIP 2.0 should proactively identify personnel within its membership
33 organizations who have a strong pre-existing relationship with one or
34 more of the relevant standards organizations; and determine a mutually
35 beneficial arrangement for the use of those personnel to provide the
36 needed "linkage" between that organization and SGIP 2.0 on an "as
37 needed" basis.
38
- 39 (2) Creation of formal relationships, including official Memorandums of
40 Understanding, between SGIP and each standards organization was
41 discussed but considered as likely to not be effective by many.
42 However, if Technical Champions are not or cannot be funded, entering
43 into liaison MOUs with selected SDOs may be a reasonable alternative.
44

45 **j) Regulatory Advisory Council {NOTE: this section was prepared by Paul**
46 **Centolella}**
47

- 48 **i) *RECOMMENDATION FROM THE BSPWG:*** modeled after the EPRI Advisory
49 Council, created in part to help enhance the value proposition for SGIP 2.0
50 members

1
2 {NOTE TO DRAFT: Paul Centolella has already discussed the
3 concept with NARUC leadership and has received a favorable first
4 impression and encouragement to craft a detailed proposal for both
5 groups – SGIP and NARUC – to consider}
6

- 7 (1) Purpose: provide direct access to and increased involvement by electric
8 industry regulators. The creation of this Regulatory Advisory Council
9 will lead to increased involvement by utility regulatory commissioners
10 and commission staff.
11
12 (2) Membership
13 (a) NARUC appoints ten state regulatory commissioners and/or senior
14 state regulatory commission Staff members
15 (b) Others: <TBD, including FERC>
16
17 (3) What do we use this group to do? Provide regulatory and economic
18 policy advice and direction to the SGIP. Ensure that regulators are
19 informed regarding the development, status, and benefits of standards
20 based approaches to modernizing the power grid.
21 (a) Interaction with the Board of Directors: details <TBD>
22 (b) Interaction with the Business and Policy Domain Expert Working
23 Group and other Working Groups addressing policy related issues:
24 details <TBD>
25 (c) Interaction with the broader Membership: details <TBD>
26
27 (4) To enable/facilitate participation, SGIP will pay all travel expenses for
28 state commissioners and staff who are NARUC appointed members of
29 the Regulatory Advisory Council and/or elected members of Standing
30 Committees for attendance at SGIP F2F meetings

31
32 ii) **ALTERNATIVES CONSIDERED -**

- 33 (1) do not form such a council
34 (2) wait to form such a council under after SGIP 2.0 is formed and is
35 operational
36

37 **k) 2013 Budget**

38
39 **i) RECOMMENDATION BY THE BSPWG -**

40
41 The 2013 SGIP 2.0 operating budget is very difficult to estimate at this
42 time. Work will continue on this throughout the BSP formation process.
43

- 44 (1) The following table was prepared using information from the SGIP 1.0
45 Program Administrator. The BSPWG discussed whether tasks were:
46 (a) High , medium or low priority
47 (b) Whether the expected level of effort should be more, less or the
48 same as compared to 2011
49 (c) Recommended primary provider of that support
50 (i) SGIP –either staff of contractors

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- (ii) NIST personnel
- (iii) Member volunteers

(2) The BSPWG will continue to assess the draft budget. It should be realized that forecast expense will continue to evolve until the implementation phase of the transition is underway; however, major elements will begin to gel in the very early stages of implementation.

Major SGIP Activities Areas	2013 Priority (High, Medium, Low)	2013 Estimated level of effort relative to 2012	Recommended Support Resources (SGIP-funded, volunteer, NIST)	Estimated 2013 \$\$	Comments
Governing Board Activities					
GB Meetings	high	same	SGIP		important
GB Working Group Support	medium	less	SGIP		CMEWG funded in line 8
GB Planning & officers' support	high	same	SGIP		need to fund leadership
Operations Activities					
Executive Management - Officers					
SGIP Executive Leadership: CEO type, VPs, Secretary, Treasurer	high	more	SGIP/Volunteer		need to fund leadership
Legal: contracts management, agreements	high	more	SGIP		important
Financial: funds management	high	more	SGIP		important
Travel management	low	same	Volunteer		may be source of savings at some point
Membership Services					
Promotion/PR/Marketing to expand SGIP	high	more	SGIP		Includes \$250k from CMEWG recommendation drives funding
Information Services: member portal, voting services, document management	high	more	SGIP		basic level of integrated service
Dues collection	high	more	SGIP		important
Event Management					
Event planning and logistics	high	same	SGIP		minimum of two F2F/annually
SGIP Plenary meetings support	high	less	SGIP		minimum of two F2F/annually
Program Management					
Program Coordination	High	Less	SGIP		
CSWG technical support	high	same	NIST/Volunteers		important functions
SGAC technical support	high	same	NIST/SGIP/Volunteers		
IMC Support	high	same	NIST/SGIP/Volunteers		
Testing & Certification Services (IPRM etc.)	high	same	NIST/SGIP/Volunteers		important for future (funding, value proposition likely)
PAPs Lifecycle support	high	less	NIST/SGIP/Volunteers		scott
Working Group Support (DEWGs etc.)	low	less	NIST/SGIP/Volunteers		reset number with SGIP 2.0, regulate the number of WGs supported going forward, consider them as "forum" - dialogue among like-minded stakeholders
International presence and coordination	high	more	NIST/Volunteers		needs attention, but not dire
AUDIT					
D&O Insurance					
Advisory Board Travel					
Legal					
Total					
				\$ 5,375,500	

12
13

- 1 ii) **ALTERNATIVES CONSIDERED** – although it is acknowledged that the initial
2 base level budget will evolve over time, some recommend that the initial
3 target budget that is supported solely by the membership fees be in the \$2-3
4 million range.

5
6
7 **1) Revenue Opportunities**

8
9 **i) RECOMMENDATION BY THE BSPWG –**

10
11 (1) **General thinking:**

12 Several sources of revenue have been considered. Many revenue
13 options are still under evaluation. In part due to the SGIP mission and
14 principals identified earlier in this document, there is a strong desire by
15 some to minimize the amount of dues charged to all members. However,
16 dues are a common practice across the industry for organizations such
17 as SGIP 2.0, and it is believed that membership dues are a likely source
18 of substantial revenue in the near term.

19
20 The concept is to initially set dues at a level sufficient to cover a base
21 level of work output by SGIP 2.0. As additional sources of revenue
22 materialize, then

- 23
24 (a) first allow for an increased level of work product until it reaches a
25 level determined acceptable by the Board;
- 26
27 (b) additional revenue is next applied to build a capital reserve equal
28 to [6] months of operating expenses at an “acceptable level of
29 operation”, or some other level as determined by the Board;
- 30
31 (c) additional revenue can next be applied to reducing membership
32 dues if this would be deemed to result in increased participation
33 without financial consequence to the organization;
- 34
35 (d) additional revenue is next applied to an increased level of work
36 output by SGIP; and
- 37
38 (e) additional revenue is next applied to reducing membership
39 meeting fees until fees are zero (or at a level deemed satisfactory
40 by the Board).

41
42 **{NOTE TO DRAFT: to maintain a 501(c)6 status, membership
43 fees must represent more than 50% of total revenue}**

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(2) A variety of funding sources are shown in the following a table. The sources have variety of different characteristics.

(a) Desirability: how attractive is this source of revenue? WIN:WIN is rated high, the more a revenue source compromises the mission & culture the lower the rating.

- (i) ● - WIN:WIN – best case
- (ii) ● - high interest
- (iii) ● - medium interest
- (iv) ○ - low interest

(b) Predictability:

- (i) Near term – how well can a revenue level be forecasted for commencing Jan 2013?
- (ii) Long term – how well can annual revenue be forecasted once the source has been developed and is in “maintenance mode”?
- (iii) ● - best predictability
- (iv) ● - high predictability
- (v) ● - medium predictability
- (vi) ○ - no predictability

(c) Time Frame: this represents how long it will take to commence meaningful revenue from the respective source. A high rating is soon, a low rating is measured in years

- (i) ● - almost immediate
- (ii) ● - 3 to 6 months
- (iii) ● - 6 to 12 months
- (iv) ○ - > 12 months (maybe years)

(v)

(d) Potential level: what is the potential funding level from this source:

- (i) ● - \$5,000,000+ per year
- (ii) ● - measured in millions of dollars
- (iii) ● - measured in hundreds of thousands of dollars
- (iv) ○ - unknown

Revenue Type	Desirability	Predictability Near term	Predictability Long term	Time Frame	Potential Level
Membership dues	○	●	●	●	●
Advertising/Sponsorships	●	●	●	●	●
Grants	●	●	●	○	●
Document Access	●	○	●	●	○
Electricity Surcharge	○	○	●	○	●

Testing & Certification	●	○	●	○	○
Fee per device	○	○	●	○	●
SGIP Services	●	○	●	●	●

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(3) Membership Dues

(a) It is felt that to support the culture that has been established in SGIP 1.0, namely to enable and facilitate broad participation across the entire Smart Grid Eco-system, that a tiered annual dues structure based on type and size organization, is appropriate. Furthermore, it is believed that three membership categories, with various levels of privileges is both appropriate and supported by industry practices of other similarly situated organizations

Member Category	Global Revenue	Platinum	Gold	Silver
For profit	>\$1 billion	\$30,000	\$15,000	\$7,500
For profit	\$500M to \$1B	\$20,000	\$10,000	\$5,000
For profit	\$100M to \$500M	\$15,000	\$ 7,500	\$2,750
For profit	\$ 50M to \$100M	\$10,000	\$ 5,000	\$2,500
For profit	\$ 10M to \$ 50M	\$ 4,000	\$ 2,000	\$1,000
For profit	\$ 500K to \$ 10M	\$ 2,000	\$ 1,000	\$ 500
For profit	<\$500,000	\$ 1,000	\$ 500	\$ 250
Non-Profit	>\$10 million	\$ 4,000	\$ 2,000	\$1,000
Non-Profit	\$500K to \$10M	\$ 2,000	\$ 1,000	\$ 500
Non-Profit	<\$500K	\$ 1,000	\$ 500	\$ 250
Universities	ALL	\$ 4,000	\$ 2,000	\$1,000
Foreign Gov't	n/a	\$ 4,000	\$ 2,000	\$1,000
Federal Gov't	n/a	\$ 4,000	\$ 2,000	\$1,000
State Gov't	n/a	\$ 2,000	\$ 1,000	\$ 500
Municipal Gov't	n/a	\$ 1,000	\$ 500	\$ 250

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(b) Membership Levels – the following table shows the different levels of features and benefits in three categories:

- (i) Voting & Governance
- (ii) Participation
- (iii) Marketing & Materials

A= Platinum
B= Gold
C= Silver

Category	Privileges	A	B	C
Voting & Governance				

	Right to stand for Board of Directors	X		
	Vote for Board of Directors	X	X	
	Nominate Board of Directors	X	X	
	Observe Board of Directors Meetings	X		
	Access to Board materials	X		
	Representatives per membership (but only one vote)	∞	5	2
	Vote on technical issues in committees, work groups and the general membership	X	X	
	Vote on general issues presented to the membership	X	X	X
Participation				
	Right to stand for membership committee chair election	X	X	
	Right to stand for membership committee vice chair election	X	X	
	Right to stand for membership committee secretary election	X	X	X
	Right to participate in membership committees	X	X	X
	Right to propose creation of subcommittees (e.g., DEWGs/PAPs)	X	X	
	Right to stand for membership of Board Committees: Technical and Marketing & Membership, and Nominating & Governance Board Committees	X		
	Eligible for invitation to participate in Technical, Marketing & Membership, and Nominating & Governance Board Committees	X	X	
	Eligible to be a full member in Board Committee working groups or task forces	X	X	
	Right to serve as liaison to SDOs/alliances	X	X	
	SGIPortal Online Account	X	X	X
Marketing & Materials				
	Complimentary Membership meeting registration	X		
	Discounted Membership meeting registration	X	X	
	Right to sponsor at membership meetings	X	X	
	Discounted booth space at Membership meetings	X	X	X
	Complimentary publications	X		
	Discounted publications		X	X
	Receive regulatory updates	X	X	
	Participation in monthly analyst briefing	X	X	
	Relevant press release inclusion on SGIPortal	X	X	
	Logo inclusion on SGIPortal	X	X	
	Membership recognition on SGIPortal	X	X	X
	Use of SGIP member logo (within guidelines)	X	X	X
	Right to advertise on SGIPortal (both public and member only websites)	X	X	X
	Priority rights to provide sponsorships at meetings	X		
	Free inclusion in SGIPortal online solutions source (product/service listings)	X	X	
	Right to be billed as "Founding Member" (if joining at	X	X	X

	inception)			
	Receive twice monthly SGIP newsletter	X	X	X

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(c) Comparison – the following table provides a comparison with other “similarly situated” organizations as SGIP

SGIP 2.0	The Green Grid	UPVI Alliance	EnOcean Alliance	Near Field Communication Forum	ZigBee Alliance	OASIS (1)	Object Management Group (OMG)
Platinum \$30,000	Contributor Membership: \$25,000	Sponsor Membership: \$25,000	Promoter Membership: \$35,000	Sponsor Membership: \$50,000	Promoter Membership: \$50,000	Foundational Membership: \$46,000 - \$50,000	Contributing Membership: \$11,000 - \$75,000 (2)
Gold \$20,000	General Membership: \$5,000	Contributor Membership: \$7,500	Participant Membership: \$6,000	Principal Membership: \$25,000	Participant Membership: \$9,500	Sponsor Membership: \$9,500 - \$16,000	Domain Membership: \$5,500 - \$37,500 (2)
Silver \$10,000	Associate Membership: \$950	Supporting Membership: \$1,000	Associate Membership: \$500	Associate Membership: \$10,000	Adopter Membership: \$3,500	Contributor Membership: \$3,200 - \$8,000	Platform Membership: \$5,500 - \$37,500 (2)
	Individual Membership: \$400	N/A	N/A	Implementer Membership: \$5,000	N/A	N/A	Influencing Membership: \$3,000 - \$21,500 (2)
	N/A	N/A	N/A	Non-profit Membership: \$1,500	N/A	Academia and Governmental Membership: \$1,000 - \$44,000	Flat Fee Memberships: \$550 - \$12,850 (3)

17 (1) Membership fee related to number of company employees. Academic and government fees range from \$1,000 - \$44,000

18 (2) Membership fee related to annual gross revenue of the company

19 (3) Flat fee memberships are for Government, University and trial memberships

20 (d) Implementation: (initial thoughts)

- 21 (i) the existing Governing Board member in each category
- 22 should serve as a "campaign chairperson" to help each
- 23 existing member in their category build a case for their
- 24 respective company and seek approval of participation in
- 25 SGIP 2.0. Resources from BSPWG and CME should be
- 26 available to help with the “pitch” development.
- 27 (ii) A more general and broad membership campaign also needs
- 28 to be design and launched.

1
2 (4) Sponsorships/Advertising Revenue –
3

- 4 (a) General Thinking: this a common and readily available source of
5 revenue. Suppliers, vendors and professional service providers
6 routinely pay to enhance the visibility of their firm to industry
7 professionals such as those that make up the SGIP.
8

9 There are several different approaches an organization such as
10 SGIP 2.0 can take: web site advertising (both on the public and
11 “member only” portion of the site; conference “sponsorships”,
12 either a general event sponsorship (which would include a listing
13 on all media used and/or for particular aspects or services for the
14 event: “reception sponsored by: ABC company”; “internet access
15 provided by: ABC company”; “dial-in & GoToMeeting services
16 provide by: ABC company”).
17

18 Until we have better visibility on everything pertaining to SGIP 2.0,
19 the initial thought is to sell simple “quarterly” sponsorships
20

- 21
22 (b) use of proceeds: general purpose funds, not dedicated to any
23 specific purpose
24

25 (c) suggested sponsorship categories:

- 26 (i) Level A: 2@\$50 k/qtr = \$400k/yr
27 (ii) Level B: 4@\$25k/qtr = \$400k/yr
28 (iii) Level C: 6@\$15k/qtr = \$360k/yr
29 (iv) Level D: 8@\$10K/qtr = \$320k/yr
30

31 **{NOTE TO DRAFT: the above price per level and number of**
32 **sponsors in each level was derived from two conferences with**
33 **attendees ranging from 150 to 250 people}**
34

35 (v) benefits in each sponsorship category

- 36 1. web site placement
37 2. placement on written materials
38 3. placement on correspondence to members
39 4. conference advertising
40 5. [?] ability to address membership at the conference with
41 an “approved” and relevant topic
42

43 **{NOTE TO DRAFT: more work needs to be done to define the**
44 **details}**
45

46 (d) implementation: TBD
47

- 48 (5) Grants – the SGIP’s work will lead to societal benefit. Many foundations
49 and endowments provide funding to programs that result in one or more

1 of the following: environmental benefit; energy independence;
2 improved energy efficiency; education of consumer or regulators; etc.

- 3
4 (a) Sources;
5 (i) Primary target: endowments & foundations
6 (ii) Secondary target: federal government
7 (b) use of proceeds: proceeds will likely need to be directed toward
8 specific activities, such as:
9 (i) educational material,
10 (ii) funds to enable discounts for specific membership categories,
11 such as:
12 1. municipal utilities or cooperatives
13 2. universities
14 (iii) support the involvement of the regulators
15 (iv) international expansion
16 (c) it is believed there are numerous potential sources of this funding;
17 success in this category requires use of expertise with
18 demonstrated experience:
19 (i) identification of sources that match the SGIP mission or
20 activities,
21 (ii) proposal writing, and
22 (iii) ability to close.
23 (d) Implementation:
24 (i) Find a professional that has connections to the grant process of
25 many large endowments and foundations
26 (ii) <TBD>

27
28 **{NOTE TO DRAFT: SBU has already been in contact with a**
29 **person that used to lead grant programs for several large**
30 **foundations. There was both keen interest, and an optimistic**
31 **outlook on the prospects of success.}**

- 32
33 (6) Document Access fees –many industry and professional organizations
34 require additional fees to obtain access to various work product and/or
35 documents. Because SGIP 1.0 was Federally funded, SGIP 1.0 provides
36 free public access to all of the work product and documentation.

37
38 An assessment should be undertaken to determine the scope of the
39 work product and documentation generated by SGIP 2.0 to determine
40 the revenue stream potential from this source.

41
42 **[NOTE TO DRAFT: some SGIP members at the Charlotte F2F**
43 **meeting stated they would find it extremely valuable if**
44 **membership in SGIP provided them access to standards materials**
45 **for either reduced fees or free. Could a more formal relationship**
46 **between SGIP 2.0 and each relevant standard organization include**
47 **a mutually beneficial “bulk” payment that would provide SGIP 2.0**
48 **members “cost advantaged” access to select materials?]**

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50 (7) Electricity Surcharge

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- (a) General thinking –
 - (i) the ultimate beneficiary of interoperability is the customers that use electricity. This benefit will result from a variety of areas:
 - 1. Reduced cost of some equipment deployed in the electric system due to an increased number of options to:
 - a. solve a problem in the grid, and/or
 - b. enable a service, and/or
 - c. source the device
 - 2. Due to increased grid efficiency, reduced cost due to decreased near term need for new power plants and/or new transmission and/or distribution lines
 - 3. Due to increased connectivity and increased information exchange the grid, reduced costs due to an improved ability to:
 - a. self-manage energy usage and costs; and
 - b. sell electricity to the grid, and/or
 - 4. receive payments for a grid operator to utilize customer premise equipment to help support grid operations
 - a. demand response
 - b. frequency regulation
 - (ii) Many believe that current regulations do not properly incentive utilities to make Smart Grid investments, including participation in SGIP
 - (iii) A surcharge on electricity would put the cost of SGIP support directly on those that will ultimately benefit from its existence
 - (iv) Potentially relevant precedence exists;
 - 1. FERC funded the former Gas Research Institute with a surcharge on interstate natural gas in the amount of several hundred millions of dollars annually.
 - 2. Many state regulators allow the recovery of EPRI dues in electricity rates; total EPRI dues are several hundred millions of dollars annually
- (b) Use of proceeds:
 - (i) If federal –
 - 1. General purpose funds, and/or
 - 2. A specific purpose negotiated with FERC
 - (ii) If state –
 - 1. General purpose funds, and/or
 - 2. A specific purpose negotiated with FERC
- (c) A surcharge of .000155 ¢ per Kwh on all of the US electric consumption would produce \$6 million annually {based on 2010 total sales of electricity in the US as reported by the EIA}
- (d) Implementation:
 - 1. Initiate a discussion with FERC
 - 2. Initiate a discussion with NARUC

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(8) Testing & Certification:

(a) General thinking:

The SGIP has developed Testing and Certification program recommendations that provide guidance and best practices for the operation of testing/verification programs. The SGIP's Interoperability Process Reference Manual (IPRM) provides this guidance. These recommendations are based on best practices as well as identified gaps in current industry programs supporting Smart Grid standards, as well as practices used in other high technology industries. The SGIP believes that implementation of these recommendations in industry test programs will result in higher quality and more robust testing programs that provide end user confidence through rigorously tested products and accelerated availability of products that have demonstrated interoperability.

A proliferation of IPRM-based programs will lead to efficiency in product testing, and resultant cost savings via the use of 3rd party independent test labs and certification bodies that have achieved accreditation through commercially available industry services as is common in many other industries. The SGIP is not planning to perform product conformance and interoperability testing itself, but will rely on a network of qualified Interoperability Testing and Certification Authorities (ITCAs). The SGIP has the opportunity to take a leadership and coordination role in oversight and direction of this network of ITCAs to help assure that their programs are meeting the expectations of utilities and end users deploying Smart Grid technologies.

A SGIP Approved ITCA Program business model is based on the fact that with broad acceptance and demand by utilities and end users for IPRM-based programs, the supporting ITCAs, labs, certifiers and others in the testing and certification ecosystem stand to derive a strong revenue stream as a result of the SGIP's efforts. The SGIP can provide a "watchdog" or oversight role in assuring that these benefiting organizations are indeed providing the expected services and maintaining the required qualifications to carry the designation as an "SGIP Approved Program". A defined set of criteria, documented assessment process, and a schedule of participation fees can be developed by the SGIP. These should be developed in close consultation with the end customers that will benefit from such a program. Depending on the ITCA/lab/certifier scope of services, participation fees can range from \$5,000 to \$50,000 annually. A fee schedule should be graduated so that those

1 ITCA programs that benefit most incur a higher participation fee,
2 while smaller, low-cost programs incur fees scaled to their
3 programs.
4

5 SGIP SGTCC is currently working with approximately six ITCAs.
6 Over the long term, it is likely that SGIP SGTCC may work with 20-
7 25 ITCAs with a likely maximum number of ITCAs around 50.
8

- 9 (b) Use of proceeds: general purpose funds
- 10 (c) A fee of \$10,000 per year could produce \$60k to \$500k per year.
- 11 (d) Implementation: <TBD>
- 12

13 (9) Fee per device

- 14
- 15 (a) General thinking – set a fee for every device that is SGIP
16 “Interoperability Certified” (“IC”).
17

18 The concept is that devices that Smart Grid devices that are IC
19 should be more attractive to the market place, and if more
20 attractive then these devices can attract an improved price (than
21 without the label). The increased market attractiveness may be
22 derived from:

- 23 (i) The label indicates the device complies with SGIP approved
24 standards; thus reducing the need for testing and compliance
25 by the purchaser
- 26 (ii) SGIP approved standards deliver the benefits of
27 interoperability.
28

- 29 (b) Use of proceeds: general purpose funds
- 30 (c) Suggested level of fee per device: <TBD>
- 31 (d) Implementation: <TBD>
- 32

33 (10) SGIP Services

- 34
- 35 (a) General thinking – the SGIP brings together a substantial amount of
36 skilled talent within the Smart Grid industry. That talent and
37 knowledge could possibly be harnessed into a variety of
38 professional services (ranging from professional education to
39 consulting services) and product offerings (subscriptions for newly
40 formed “hot topic” reports from industry insiders to ??).

- 41 (b) Use of proceeds: general purpose funds
- 42 (c) Suggested revenue levels:
 - 43 (i) Member contributors could receive credits toward purchases
44 and/or conference attendance
 - 45 (ii) <TBD>
- 46 (d) Implementation: <TBD>
- 47

48 **ii) ALTERNATIVES CONSIDERED:**

- 49 (1) Some believe that membership dues should be substantial and not
50 reduced in any scenario (i.e. not be reduced by additional revenue

1 sources) and that SGIP 2.0 should strive to be a truly valuable
2 organization that is worthy of a meaningful annual fee from its members.

3
4 (2) Some believe there is a revenue opportunity associated with SGIP 2.0
5 “logo items” made available thru an on-line store, such as: caps, golf
6 shirts, coffee mugs, ties, button down shirts, etc.
7

8 (3) Some believe that attempting to create revenue streams from testing &
9 certification activities and/or devices may have a negative effect on the
10 pace of deployment by the industry, and may not realistically produce
11 any meaningful revenue in the near term.
12

13 (4) Some believe that all work product from SGIP 2.0 should be free to all
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19 6) IMPLEMENTATION PLAN
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21 ****** *more to come later in the process* ******