



Smart Grid Information Clearinghouse (SGIC)

SGIC Development Plan 09-10

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Outline

- SGIC objective
- SGIC timeline 09-10
- How we need your helps
 - Smart grid user group
 - International advisory committee
 - Collaboration effort in data collection

SGIC Team

Virginia Tech

- Saifur Rahman
- Manisa Pipattanasomporn



IEEE PES

- Patrick Ryan



EnerNex Corporation

- Erich Gunther





SGIC Objective

To design, populate, manage and maintain a public SGIC web portal that reaches out to a broad user community both for information gathering and knowledge delivery.



Information in the Clearinghouse

- The information in the Clearinghouse will be very comprehensive, that includes:
 - SmartGrid 101
 - Use cases
 - Research & development
 - Demonstration projects
 - Technical standards
 - Costs & benefit analyses
 - Business cases
 - Legislation
 - Policy & regulation
 - Lessons learned and best practices
 - News & upcoming events
 - Education & tutorials

Smart Grid Information Clearinghouse



Home >> The Clearinghouse

Search the Clearinghouse:
Click here to search the clearinghouse:

Browse the Clearinghouse:

- Home
- A to Z List of Topics
- Smart Grid 101
- Enabling Technologies
- Smart Grid Standards
- Demonstration Projects
- Use cases
- Publications
- Initiatives
- Cost & Benefit Analysis
- Business Cases
- Policies & Regulations
- Best Practices
- International Information
- Stakeholder Community
- Education & Tutorials
- Glossary

Smart Grid Information Clearinghouse

This website is the electronic platform for the Smart Grid Information Clearinghouse where the relevant information is collected, reviewed and catalogued for relevance, and hosted for dissemination. This website makes available information on smart grid-related information to various smart grid user groups, that include general public, academia, government, industry, electric utilities, regulatory bodies and other smart grid stakeholders. Contents in this smart grid clearinghouse website ranges from the basic smart grid definition and components to advanced technical research and development details. Particularly, the information includes research & development, demonstration projects, technical standards, cost-benefit analyses, business cases, legislation, policy & regulation, and other information on lessons learned and best practices. The database also hosts information on smart grid related projects from major power systems globally including the European Union, Japan and China. Through direct sharing and dissemination of information on knowledge gained, lessons learned, and best practices, this Clearinghouse helps to facilitate coordination and collaboration in Smart Grid development and practices. It can also serve as a decision support tool for both state and federal regulators in the United States.

A collection of textual [glosses](#) or of specialized terms with their meanings

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Last update: March 24, 2009

[MySGIC Page](#)

Content Submission:

Submit a document to add to the Clearinghouse.

Calendar of Events:

April 2009						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

Smart Grid News:

Smart Grid Leadership: The Top Ten "Smartest" States in 2009. [More >>](#)

Get Involved and Informed

[Discussion Forum](#)

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Search feature like scitopia.org

Browse feature

- Smart grid 101
- Enabling tech
- Standards
- Demonstrations
- Use cases
- Initiatives
- Cost & benefit
- Policy
- Regulations
- Best practices
- International info
- Stakeholder comm
- Education & tutorials

MySGIC

Content Submission

Calendar

News

Discussion Forum

Online feedback form

Automatic Q&A page

Search Features

SGIC will have search features similar to those provided by Scitopia.org.

- shows abstracts, results by topics, results by sources

The screenshot displays the Scitopia.org search interface. At the top left is the logo 'scitopia.org'. A search bar contains the text 'smart grid' and a red 'search' button. To the right, there are icons for 'Sources' and 'Email', and a note 'powered by DeepWeb Technologies'. Below the search bar, a message states: 'Search: Record: smart grid yielded 616 top results from at least 9,037 found. (Advanced Search)'. A yellow box indicates '24 of 24 sources complete.'. Below this are filters for 'society documents (394)', 'patents (12)', and 'government documents'. A note says 'Includes journal articles, conference papers, standards and other content.'. On the left, a 'Clusters' sidebar lists 'All Results (394)' and 'Topics' including Control (58), Sensor (56), Model (52), Distributed (50), and Network (47). The main results area shows 'Results 1 - 25 of 394', 'Sort by: Rank', and 'Limit to: All Publications'. The first result is '1 Educating the Smart Grid' by Katz, J. S., with a 5-star rating and a green plus icon. The abstract text is partially visible. On the right, a 'Source Status' window is open, showing a table of sources and their result counts.

Source Name	Results	Totals
Acoustical Society of America	✓ 1	1
American Geophysical Union	✓ 3	3
American Institute of Physics	✓ 3	3
American Physical Society	✓ 2	2
American Society of Civil Engineers	✓ 1	1
American Society of Mechanical Engineers	✓ 2	2
Audio Engineering Society	✓ 0	0
AVS	✓ 1	1
DTIC Science & Technology	✓ 20	8,324
ECS	✓ 0	0
European Patents	✓ 0	0
IEEE	✓ 100	215
Information Bridge	✓ 100	100
Institute of Physics	✓ 100	100
IUCR Crystallography Journals Online	✓ 86	88
Japanese Patents	✓ 3	3

Project Schedule & Timeline

Task 1: Establish a User Group, an international advisory committee and liaise with selected organizations/associations (months: 1-3)

Task 2: Collect smart grid information (months: 1-12)

Task 3: Develop the Clearinghouse web portal (months: 1-9)

Task 4: Start beta test the SGIC web portal (months: 9-12)

Task 5: Assessment of initial Clearinghouse (months: 9-12)

Task 6: New data gathering, analysis and review

Task 7: DOE Smart Grid projects & future expansion

Task 8: Manage & maintain the Clearinghouse

Year 1

Year 2

Year 3

Year 4

Year 5



Areas Collaboration Needed # 1: Identify the SGIC User Group

(Months: 1-3)

- Need to identify organizations that will serve in the SGIC User Group, and establish linkages with them
- The User Group will give comments on the content and the usefulness of the Clearinghouse web portal.
- 25-30 representatives

Sample User Group Organizations

The SGIC User Group can be from the following category:

Category	1	2	3
Utilities			
Universities			
Government	NIST	FERC	DOE
National laboratories	PNNL	NREL	
Regulatory bodies*	NARUC		
Cooperative associations	NRECA		
Equipment manufacturers	GridPoint	Trilliant	
Independent system operators			
Industry & private sector	GE	IBM	Google
Professional & trade associations	DRCC	IEEE	EPRI



Areas Collaboration Needed # 2

International Advisory Committee

(Months: 1-3)

- Establish an international advisory committee: need to identify organizations that will serve in the international advisory committee.
- The int' advisory committee will give smart grid perspectives internationally, comments on the content and the usefulness of the Clearinghouse web portal.
- 5-10 representatives



Areas Collaboration Needed # 3

Coordinate Effort for Data Collection

(Months: 1-12)

- Identify Clearinghouse information sources and coordinate effort for data collection:
 - SmartGrid 101**
 - Technical standards**
 - News & upcoming events**
 - Education & tutorials** (offer weekly podcast, webinars?)
 - Use cases
 - Research & development
 - Demonstration projects
 - Costs & benefit analyses
 - Business cases
 - Legislation
 - Policy & regulation
 - Lessons learned and best practices



*Send us an Email with any Smart Grid Related
Information*

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or

smartgrid@vt.edu