

GRIDWISE® ALLIANCE

Advocating for a Smarter Grid

“Partnering to Build the Smart Grid”

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Quality
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OVERVIEW

- The Gridwise Alliance
- How private, public, and governmental organizations are partnering to promote and implement the Smart Grid
- The Federal Government, the Smart Grid, and Legislative and Executive Mandates

What is
Smart Grid?



SMART GRID

- Is two-way communications and control from power plant bus bar to meter and load center
- Allows stakeholders on the grid to have more choices and be able to participate
- Is the means to an end, not an end unto itself
- Can look different depending on the goals and needs of the system
- Enables a more reliable, more flexible, more efficient, more secure, and cleaner electric grid

What is
Smart Grid?



ALLIANCE STRUCTURE

- Coalition rather than association
- Consensus-based, democratic
- Public interest rather than special interest
- Broad membership, holistic view of grid
- Technology neutral
- Work group structure



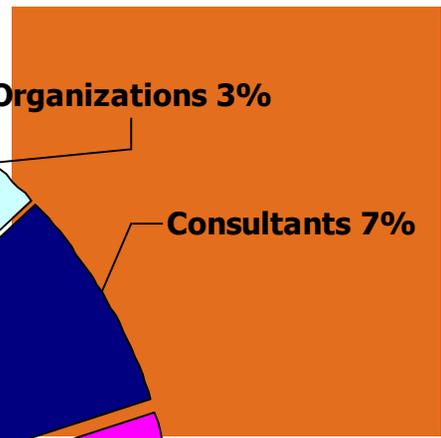
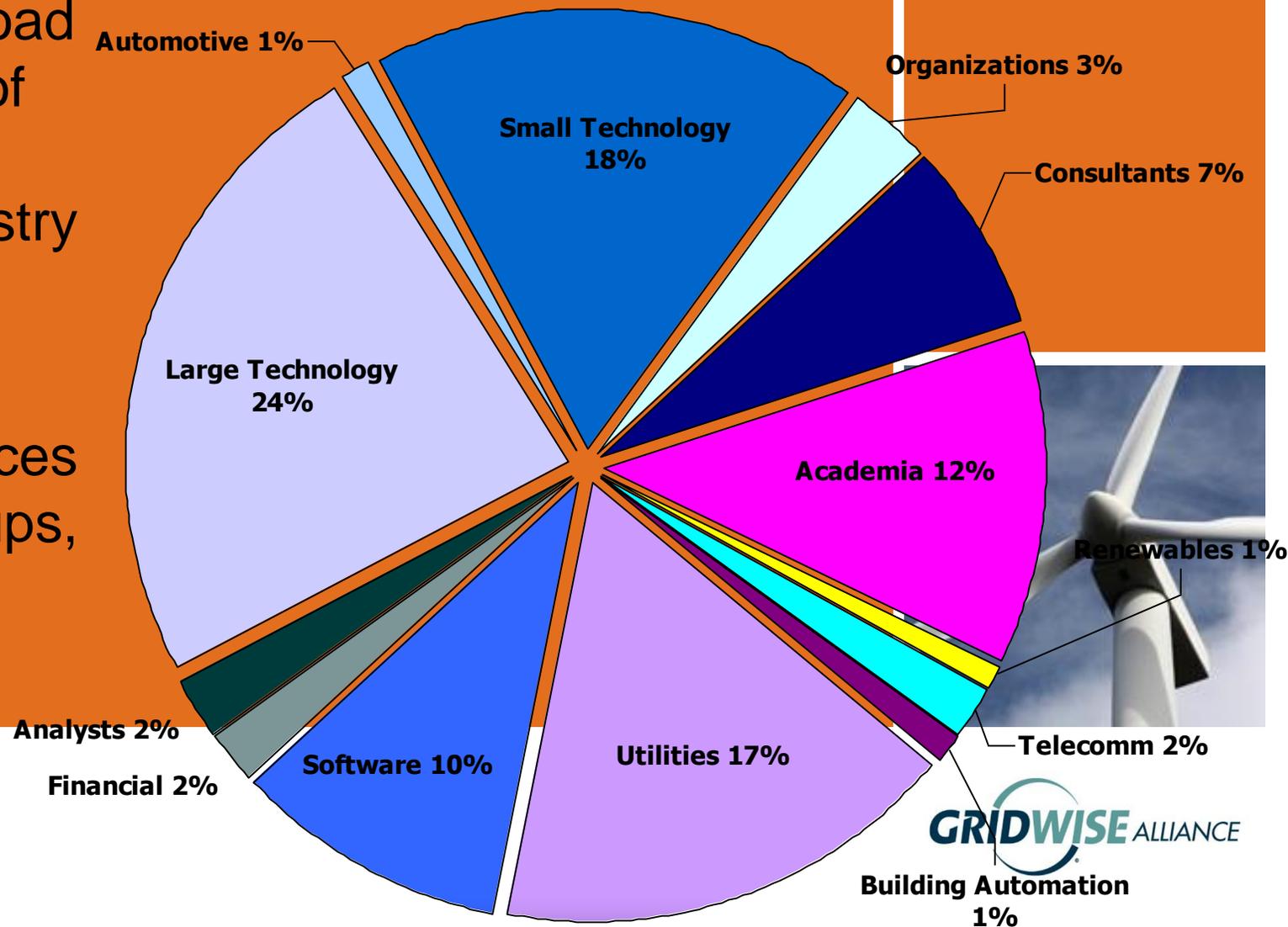
About the
Alliance



Our Current Membership

143 members represent a broad cross-section of energy and electricity industry stakeholders

We also have strategic alliances with other groups, both nationally and globally



OUR MEMBERS

(as of April 30 2009)

- 3TIER
- ABB
- Accenture
- Alcatel-Lucent
- Ambient Corporation
- American Electric Power
- Arcadian Networks
- AREVA T & D
- AT&T
- Austin Energy
- Autodesk Inc.
- BC Hydro
- Beacon Power Corporation
- BPL Global
- Bridge Strategy Group
- British Columbia Institute of Technology
- Center for the Commercialization of Electric Technologies
- CenterPoint Energy Inc.
- Cisco Systems Inc.
- CMEA Capital
- Computerized Electricity Systems, Inc.
- Con Edison of New York, Inc.
- Consumers Energy Company
- Cooper Power Systems
- CURRENT Group
- Duke Energy
- Electricite de France
- Elster Integrated Solutions
- Energy Insights
- The EnergySolve Companies
- EnerNex Corp.
- ESRI
- Florida State University, Center for Advanced Power Systems
- GE
- George Mason University
- Google
- GridPoint, Inc.
- Hewlett-Packard
- IBM
- Indian Hills Community College
- Institute of Electrical Power Engineering, TU Clausthal
- Intel Corporation
- Itron Inc.
- KEMA, Inc.
- Landis+Gyr
- Litos Strategic Communications, Inc.
- Lockheed Martin
- Mercury Cable & Energy
- Microsoft Corporation
- Midwest ISO
- Milsoft Utility Solutions
- National Grid
- New York ISO
- Northern New Mexico College
- Open Systems International, Inc.
- Optimal Technologies International, Inc.
- PJM Interconnection
- Progress Energy, Inc.
- R.W. Beck
- RockPort Capital Partners
- RuggedCom Inc.
- SAIC
- SAP
- Schweitzer Engineering Laboratories
- Sempra Energy: San Diego Gas & Electric
- SensorTran, Inc.
- Sensus
- Sharp Laboratories of America
- Siemens Energy, Inc.
- Site Controls
- SmartSynch
- Telvent
- Tendril Networks, Inc.
- Tennessee Valley Authority
- Teridian Semiconductor Corporation
- The Valley Group
- Tollgrade Communications Inc.
- UtiliPoint International
- Utilities Telecom Council
- VELCO
- Ventyx
- Washington State University
- ZIV USA, Inc.



Strategic Alliances – North America

- Alliance to Save Energy
- American Public Power Association
- Continental Automated Buildings Association
- CS Week
- Electric Drive Transportation Association
- Green Grid
- International Engineering Consortium
- IEEE - PES
- National Assoc. of State Energy Officials
- National Venture Capital Association
- Future of Privacy Forum
- U.S. Department of Energy
- WIRES
- WWF



Global Smart Grid Federation

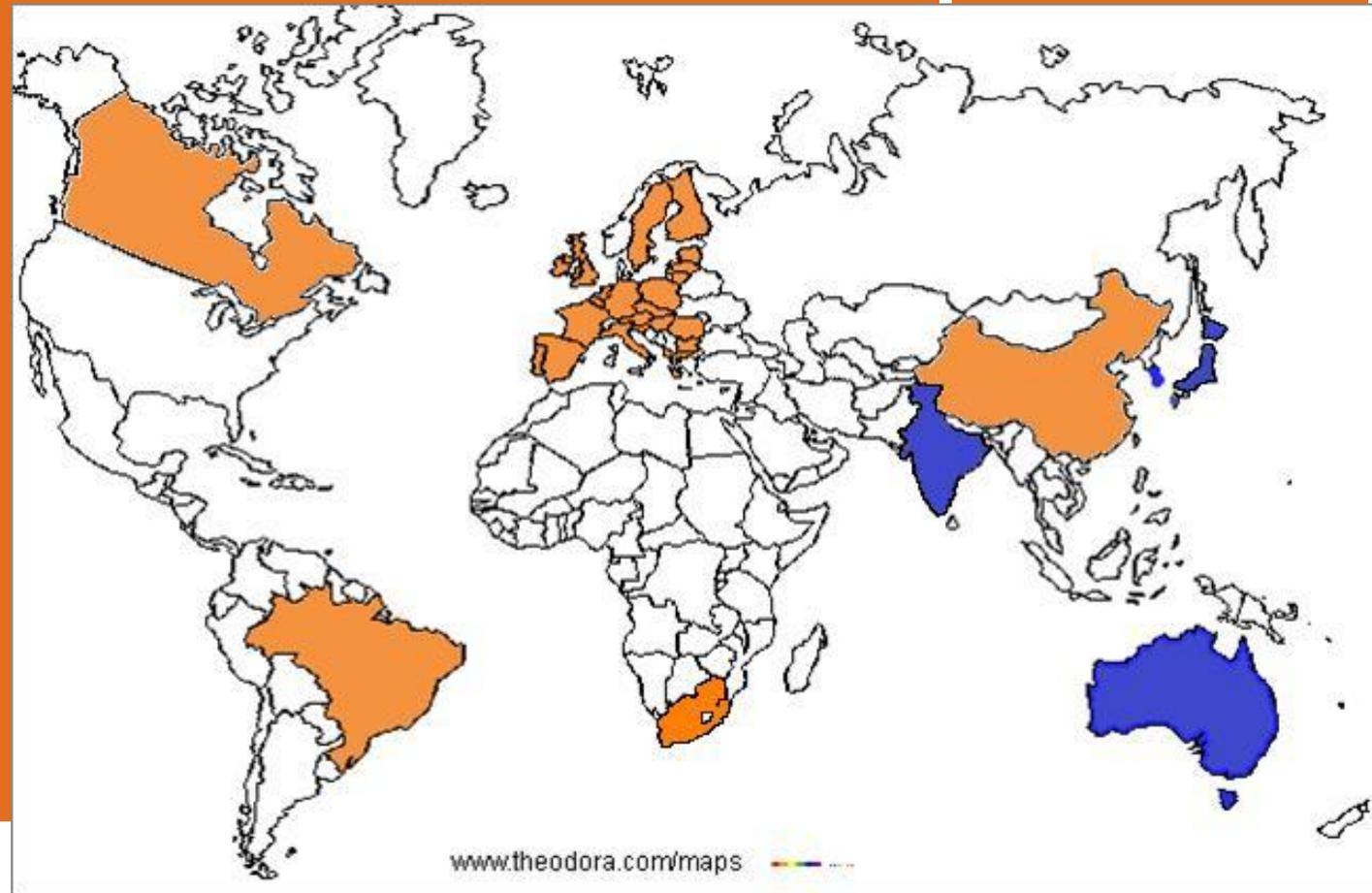


Members:

- SmartGrid Canada
- Korea Smart Grid Association
- Smart Grid Australia
- SmartGrid Ireland
- Japan Smart Community Alliance
- Gridwise Alliance
- India

In Discussion:

- Brazil
- China
- EU
- Others



Discussion

KEY POLICIES

- Smart grid for enhancement of efficiency and renewable energy
- Smart grid as enabler for electric vehicles and infrastructure
- Incentives are necessary for smart grid equipment, including energy storage
- Need for cooperation nationally and internationally is vital
- An educated Consumer is an imperative



The Federal Government, Mandates and the Smart Grid

- Energy Policy Act (EPACT) 2005
- Section 103
 - By October 1, 2012 . . .all Federal buildings shall, for the purposes of energy and reduction in the cost of electricity used in such buildings be metered. Each agency shall use . . . Advanced meters . . . that measure at least hourly consumption. . . . Such data shall be incorporated into existing Federal energy tracking systems and made available to Federal facility managers



The Federal Government, Mandates and the Smart Grid

- Executive Order 13514
 - In order to create a clean energy economy that will increase our Nation's prosperity, promote energy security, protect the interests of taxpayers, and safeguard the health of our environment, the Federal government must lead by example

What is
Smart Grid?



The Federal Government, Mandates and the Smart Grid

- “Lead by example”
- SMART GRID examples
 - Smart energy tracking systems
 - Smart meters
 - Smart lights
 - Smart appliances
 - Demand response
 - Efficient distribution transformers
 - Renewable Energy with Storage
 - Electric vehicles and infrastructure
 - AND MUCH MORE

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The Federal Government, Mandates and the Smart Grid

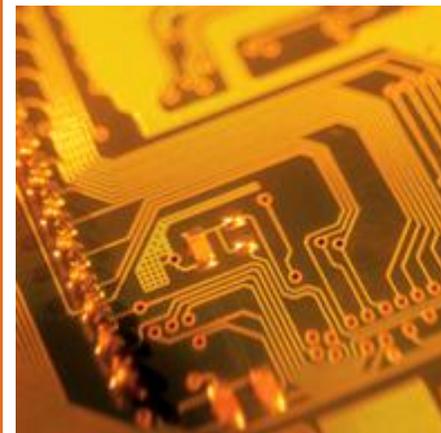
- How does the Federal Government pay for the “leading by example” and Sec. 103 mandates
- Pay out of savings
- Energy Savings Performance Contracts (ESPC)
- Working with FEMP and its ESPC contractors
- SMART FINANCING OF FEDERAL SMART GRID ACTIVITIES

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For Further Information
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Smarter Energy starts with a Smarter Grid

[What is a Smart Grid?](#)

A Smart Grid will enable a more efficient electricity distribution system.

[Smart Grid: Energy Efficiency](#)

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Featured News

[Politics and policy needed for the smart grid. Soon.](#)

Smart Grid

It is on the news, in the newspapers, on commercials, and a cornerstone of President Obama's energy initiative. It is everywhere.

Alliance Resources

[The U.S. Smart Grid Revolution: KEMA's Perspectives for Job Creation](#)

www.gridwise.org

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