

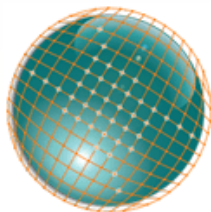
The Clean Energy Ministerial & The International Smart Grid Action Network

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4th International Conference on
**Integration of
Renewable and Distributed
Energy Resources**
December 6-10, 2010
Albuquerque, NM, USA

Conference Sponsors



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DOE is Investing in Diverse International Efforts

Worldwide efforts:

- *e.g., The International Smart Grid Action Network and the Clean Energy Ministerial*

Regional efforts:

- *e.g., APEC Smart Grid Initiative*

Bilateral agreements:

- *e.g., US-EU Energy Council Working Groups on Technology and Policy*

...and more

Path to the Clean Energy Ministerial

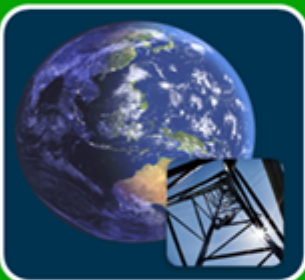
July 2009



L'Aquila (IT) – Major Economies Forum on Energy and Climate (MEF)

- Global Partnership for low-carbon and climate-friendly technologies
- Technology Action Plans: 10 technologies, 80% CO₂ reduction potential

December 2009



Copenhagen (DK) – Public release of Tech. Action Plan on Smart Grids

- Led by IT and KR (with support from U.S.)
- Menu of options to accelerate deployment
- Promotes multilateral partnership on Smart Grids → ISGAN

July 2010



Washington, DC (USA) – First Clean Energy Ministerial (C.E.M)

- Energy Ministers from 23 Countries + EC
- Goal is action – policy and program collaboration to accelerate the world's transition to clean energy technologies

The First Clean Energy Ministerial

CLEAN ENERGY
MINISTERIAL

>70% of global GDP > 80% of global GHG emissions



Australia



Belgium



European
Commission



Brazil



Canada



China



Denmark



Finland



France



Germany



India



Indonesia



Italy



Japan



Korea



Mexico



Norway



Russia



South Africa



Sweden



Spain



United Arab Emirates



United Kingdom



United States

The CEM's goal is action!

Policy and program collaboration, driven from the highest levels, to accelerate the world's transition to clean energy technologies

- “Distributed leadership” model.
- Concrete, transformative clean energy initiatives led by groups of like-minded and willing countries are the “deliverables.”
- No expectation that every government join every action.
- No communiqué or other negotiated text.

The second CEM will take place in April 2011, Abu Dhabi, UAE.
The third CEM will take place in early 2012, London, UK.

11 Clean Energy Ministerial Initiatives

Bioenergy Working Group

Carbon Capture Use and Storage Action Group

Clean Energy Education and Empowerment Women's Initiative

Clean Energy Solutions Centers

Electric Vehicles Initiative

The Global Superior Energy Performance Partnership

International Smart Grid Action Network

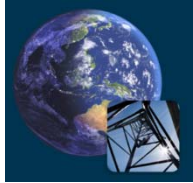
Multilateral Solar and Wind Working Group

Solar and LED Energy Access Program

Super-Efficient Equipment and Appliance Deployment Initiative

Sustainable Development of Hydropower Initiative

Global Energy Efficiency Challenge (GEEC)



GRIDS

- International Smart Grid Action Network (ISGAN)



APPLIANCES

- Super-efficient Equipment and Appliance Deployment (SEAD)



BUILDINGS AND INDUSTRY

- Global Superior Energy Performance (GSEP)



ELECTRIC VEHICLES

- Electric Vehicles Initiative (EVI)



CAPACITY BUILDING

- Clean Energy Solutions Centers

A mechanism for bringing high-level government attention and action to accelerate the development and deployment of smarter electricity grids around the world.

ISGAN will...

- Facilitate dynamic knowledge sharing, technical assistance, peer review and, where appropriate, project coordination
- Sponsor activities that accelerate smart grid deployment and address knowledge gaps
- Build on the momentum of and knowledge created by the substantial investments being made in smarter grids globally
- Fulfill a key recommendation in the Smart Grids Tech. Action Plan
- Leverage cooperation with the International Energy Agency, Global Smart Grid Federation, and other relevant stakeholders



ISGAN Scope

- Five key topic areas
- Core emphasis on sharing of knowledge and lessons learned
- Projects may be crosscutting



Work Plan & Projects

1

- **“Global Smart Grid Inventory”**
of smart grid-enabling programs and policies

2

- **Case Studies**
using a common framework and metrics

3

- **Benefit/Cost Methodologies**
(bottom-up & top-down) and related Policy
Toolkits to assess smart grid investments

4

- **Synthesis for High-level Decision Makers**
(e.g., CEM Ministers) of insights from ISGAN
and related projects

- ISGAN isn't only org in the inventory “game”
- Several such efforts underway regionally
 - ASGI
 - EU SET Plan
 - ENARD IA
 - Etc.
- Although different drivers for each, there are opportunities for cooperation

Results of ISGAN Meeting

Jeju, Korea – 8-9 November



- **Structure**

Established interim Secretariat
to implement projects
(Korea Smart Grid Institute)



Working together to establish an ISGAN Implementing Agreement
(under IEA umbrella)

Continuing dialogue
with private sector and other stakeholders
(e.g., Global Smart Grid Federation, ADB, SGIP, etc.)

Increasing dialogue
with other international efforts
(e.g., EEGI, ASGI, ENARD)

Thank you!

**For more information, please see
www.cleanenergyministerial.org**