



# GLOBAL SMART GRID FEDERATION

*Accelerating the deployment of  
smart grids around the world*



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*The Global Smart Grid Federation directly links international smart grid associations thereby facilitating the sharing of best practices on resolutions around barriers to deployment; consumer engagement; innovation and capacity building.*



Japan Smart Community Alliance



SmartGridGB  
For an intelligent future



EDSO  
for smart grids



सत्यमेव जयते



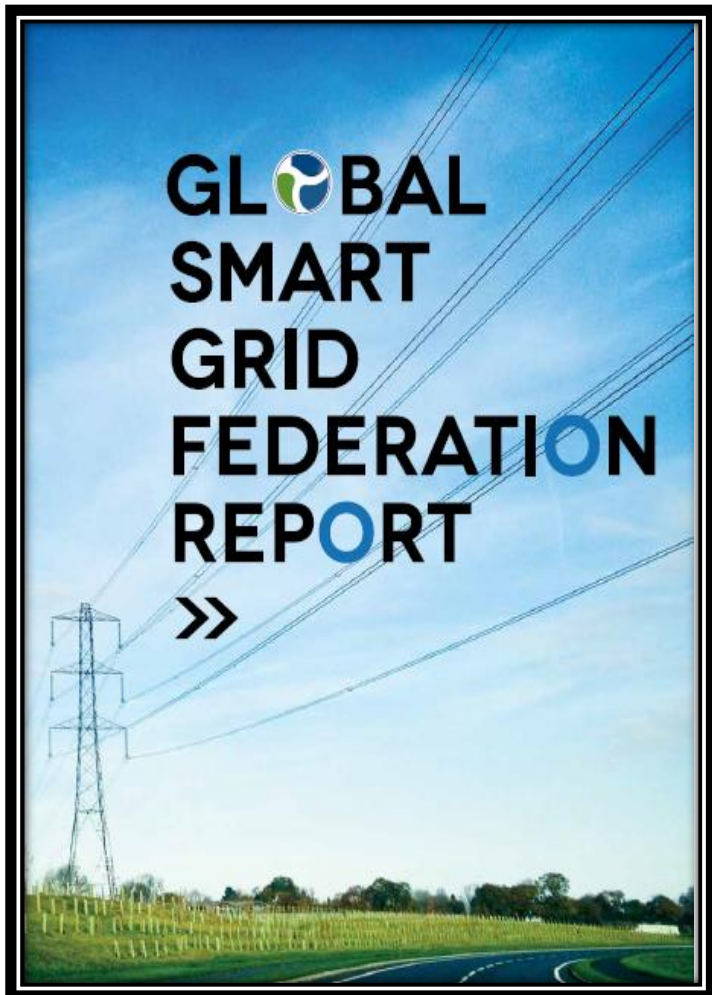
The Israeli Smart Energy Association





# GSGF Smart Grid Report

Report provides insight and analysis member countries deploying smart grid. The report identifies challenges which must be addressed collaboratively:



- 1) Speed of Technology versus Regulation***
- 2) Developing Interoperability Standards***
- 3) Gaining Consumer Interest and Support***
- 4) Protecting Intellectual Property Rights***
- 5) Defining Stakeholder Needs***





## **GSGF Report Findings**

### **At the Global Level; smart grids have become**

- *a powerful agent of environmental policy by enabling reliable integration efficiency and cleaner sources of power*
- *a part the economic growth and jobs agenda for many countries looking for domestic employment and new export opportunities*

**The Business Case for smart grids is positive when factoring societal benefits**  
*such as environmental, energy security, and economic development factors*

**The ratepayer is taking on the role previously held by the taxpayer in paying**  
*for environmental and energy security policy*

**There is a role for government and industry to convince consumers of the**  
*environmental, security and economic benefits - a role that many utilities have not traditionally been asked to perform*



## **GSGF Report Updates**

*The Global Smart Grid Federation Report was designed to allow for easy updates as new project information becomes available or the GSGF membership grows. The Report will be updated during the 4<sup>th</sup> Quarter of 2012 with information from GSGF Members:*

- *Danish Intelligent Energy Alliance*
- *India Smart Grid Forum*
- *Israel Smart Energy Association*
- *Norwegian Smartgrid Centre*



## **GSGF Working Groups**

In order to facilitate collaboration between the members, the GSGF Board is considering the creation of three working groups. Currently under discussion are:

### **Interoperability**

The interoperability Work Group will focus on ensuring that products offered by different vendors will be able to interact with each other. The massive expansion needed in the smart grids market will be directly related to continuous efforts aimed at ensuring that new and differentiating products and services can operate in a multi-vendor and multi-operator environment.

### **Interfaces of Grid Users/ Focus on EV and Local Storage**

This working group will focus on grid user interactions and interfaces with special emphasis on electrical vehicles and small storage devices in residential and commercial buildings. The aim is to develop the necessary tools for enabling the customer to make choices regarding prices and energy sourcing, to organize the retail market and to introduce new services.

### **Connection of small generators**

The third working group will deal with the connection of small generation and their integration in the overall system. The aim is to overcome vendor specific approaches and to make the behavior transparent to the user, the supplier and the grid operator. In that respect, grid codes as found in all synchronous systems can serve as a framework of thinking.



## **GSGF Collaborative Partners**

**GSGF has established a number of collaborative relationships with global energy organizations.**

- **Major Economies Forum on Energy and Climate (MEF)**
- **Clean Energy Ministerial (CEM)**
- **International Smart Grid Action Network (ISGAN)**
- **International Energy Agency (IEA)**
- **Global Green Growth Forum (3GF)**