



4th Annual Conference on

SMART GRIDS IN INDIA

Upcoming Projects: Issues and Opportunities

February 27-28, 2013, The Imperial, New Delhi

Organisers:

POWERLINE

RenewableWatch

Smart Utilities

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ISGF
India Smart Grid Forum

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SMART GRIDS IN INDIA

Mission

- The Indian Smart Grid Task Force recently selected 14 smart grid pilot projects for implementation in the power distribution segment. These projects, to be based on advanced metering infrastructure, will establish the feasibility of the proposed smart grid framework to tackle issues of loss reduction, load forecasting, power quality, outage management, etc.
- Meanwhile, stability and reliability concerns in managing a synchronised and complex national grid are driving the implementation of smart grid technologies in the power transmission segment. This too has been taken up through pilot projects involving phasor measurement units as a precursor to large-scale implementation of wide area monitoring systems.
- Together, these initiatives promise a quantum jump in the technology profile of the Indian transmission and distribution network. An automated as well as adaptive energy delivery mechanism under the smart grid framework can optimise the entire power system value chain – from the generator to the consumer.
- To realise the potential, however, policy and regulatory support is essential. The utilities and technology providers engaged in upcoming smart grid projects will look for regulatory signals in tariff determination, new pricing structures, capital expenditure, etc. for commercial viability. At the same time, utilities need to get consumers on board to ensure adoption of the solutions on offer.
- Central government schemes such as the R-APDRP are instrumental in setting up the infrastructure backbone including baseline data and an IT-enabled energy monitoring system. The next steps will be to integrate R-APDRP projects with proposed smart grid initiatives.
- **The mission of this conference is to highlight the proposed smart grid pilot projects, discuss key issues and challenges as well as potential solutions and strategies. The conference will also showcase the most appropriate technologies and noteworthy projects.**

Target Audience

- The conference is targeted at:
 - Discoms
 - Gencos
 - Private Utilities
 - Equipment Manufacturers
 - IT Solution Providers
 - Telecom Service Providers
 - Regulators and Policymakers
 - Transcos
 - SEBs/Electricity Departments
 - IPPs/CPPs/MPPs
 - Technology Providers
 - Metering Manufacturers
 - Sector Consultants
 - Financiers, Etc.

Organisers

The conference is being organised by **Power Line** magazine and supported by the **India Smart Grid Forum (ISGF)**.

Power Line is the premier magazine for the Indian power sector, which is published by **India Infrastructure Publishing**, a company dedicated to providing information on the infrastructure sector through magazines, newsletters, reports and conferences. The group also publishes the **Smart Utilities** and **Renewable Watch** magazines; **Power News** (a weekly newsletter); and a series of reports on the energy sector including **Power in India**, **Power Distribution in India**, **Power Transmission in India**, **Power Trading in India**, **Solar Power in India** and **Wind Power in India**.

ISGF is a public-private partnership initiative of the Ministry of Power, Government of India, for accelerated development of smart grid technologies in the Indian power sector. The objective of ISGF is to help the Indian power sector in deploying smart grid technologies in an efficient, cost effective, innovative and scalable manner by bringing together all key stakeholders and enabling technologies.

Delegate Fee

- The delegate fee is Rs 22,500 for one participant, Rs 37,500 for two, Rs 52,500 for three and Rs 67,500 for four.
- There is a special low fee of Rs 7,000 per participant for the state electricity boards and their successor units (state-owned gencos, transcos and discoms), regulatory authorities and academic institutions.
- A service tax of 12.36 per cent is applicable on the registration fee.

AGENDA/STRUCTURE

PILOT PROJECTS

- ❖ What are the functionalities being tested under the project?
- ❖ What is the share of investment committed by the project's stakeholders?
- ❖ What are the technologies being implemented?

POLICY AND REGULATION

- ❖ What are the policy and regulatory steps needed to incentivise investments in a smart grid?
- ❖ What will be the impact of upcoming smart grid projects on tariffs?

ADVANCED METERING INFRASTRUCTURE

- ❖ What are the key benefits of an AMI-based system in smart grid projects?
- ❖ What are the infrastructural requirements for implementing AMI-based systems?
- ❖ Which are the AMI solutions planned for implementation in upcoming smart grid projects?

R-APDRP AND SMART GRID

- ❖ How can R-APDRP contribute to smart grid development (baseline date, SCADA, etc.)?
- ❖ How will the proposed smart grid projects work with the R-APDRP?
- ❖ What can we learn from the experience so far?

LOSS REDUCTION

- ❖ How can smart grid technologies improve energy accounting and reduce network losses?
- ❖ How can utilities scale up the existing infrastructure to deploy smart grid solutions for loss reduction?
- ❖ What are the key prerequisites (for example, comprehensive metering) in this regard?

POWER QUALITY AND RELIABILITY

- ❖ What are the quality and reliability concerns that utilities can address through a smart grid?
- ❖ What are the policy and regulatory factors driving the quality standards?
- ❖ Which are the key technologies/applications considered?

DEMAND-SIDE MANAGEMENT

- ❖ What is the status of demand response? How can a smart grid help improve this?
- ❖ How can regulations (such as time-of-day tariffs) help promote demand response?
- ❖ What are the smart grid technology solutions being considered for demand response?

PEAK LOAD MANAGEMENT

- ❖ How can smart grid technologies help in load management and load forecasting?
- ❖ Which are the key consumption loads that utilities can manage through smart grid systems?
- ❖ What are the smart grid technology solutions for enabling peak load management?

OUTAGE MANAGEMENT

- ❖ How can smart grid technologies improve existing practices for managing network outages?
- ❖ What is the status of smart grid technology development in outage management?
- ❖ What are the utilities' needs and expectations from the solutions offered?

WIDE AREA MONITORING SYSTEMS

- ❖ What is the status of the pilot projects being implemented by the central transmission utility?
- ❖ Which are the smart grid technologies being considered for deployment in power transmission?
- ❖ What is the smart grid road map for the power transmission segment?

DISTRIBUTED GENERATION AND MICRO GRIDS

- ❖ How are distributed generation and renewable energy sources influencing efficiency?
- ❖ What are the smart grid solutions being offered to manage grid complexity?
- ❖ What are the major challenges envisaged?

COMMUNICATION INFRASTRUCTURE

- ❖ What are the communication needs and standards related to smart grid deployment?
- ❖ Which are the technology options for utilities? What has been the experience?
- ❖ How can security concerns related to communication networks be addressed?

ASSET MANAGEMENT

- ❖ What are the smart grid solutions for streamlining asset maintenance and procurement?
- ❖ How can smart grid technologies help pre-empt equipment failures (for example, transformers)?
- ❖ What is the progress in the deployment of such technologies?

The conference will feature the points of view of all the key stakeholders – utilities, technology providers, equipment manufacturers, key government agencies and facilitating organisations.

Previous participants

The organisations that have participated in our previous conferences on "Smart Grids in India" include A2Z, Adya WiFi, ABB, Accenture, Analogics Tech, AP Central Discom, AP Eastern Discom, AP Transco, Asahi Glass, Aviva Power, Bhakra Beas Management Board, Barco, BESCOM, BHEL, Bokaro Steel Plant, BSES Rajdhani, C&S, CDAC, CEA, CESC, Creative Microsystems, Crompton Greaves, Delhi Transco, Delta, DongFang, Easun Reyrolle, Echeleon, ECIL, El Sewedy, Enercon, Feedback Infra, Ferranti Computer, Fortius Energy LLC, Genus Power, GET Power, GETCO, GMR, GTL, Heavy Water Plant, Hitachi, Honeywell, HP SEB, Huawei, IBM, Indian Wind Energy Association, Infinite Computer, Itron, Jindal Power, JnJ Powercom, KLG Systel, L&T, L&T Infotech, Lanco Infotech, Landis+Gyr, Madhya Gujarat Viji, Mahindra & Mahindra, Mescom, Microsoft, Mittal Group, Moserbaer, MP Poorva Kshetra, National Instrument, NCC Infrastructure, NPTI, NTPC, NXP Semiconductors, Oracle, Orissa Power Transco, Phoenix Contact, POSOCO, PGCIL, Reliance Infra, REC, SAIC, SAP, Schneider Electric, Secure Meters, Sensus, Sequoia, Servomax, Siemens, Spanco, Standard Chartered, Tata Consulting Engineers, Tata Power, Tata Power Delhi Distribution, Tata Teleservices, TCS, Telit Communication, Texas Instruments, Tirumala Sevenhills, Torrent Power, Tulip Telecom, UB Engineering, Wallaby Metering, Wartsila, WinAMR, Wipro, etc.

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Registration Form

I would like to register for the conference. I am enclosing Rs _____ vide cheque/demand draft no. _____ drawn on _____ dated _____ in favour of **India Infrastructure Publishing Pvt. Ltd.** payable at New Delhi.

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Registration Fee

Delegates	One	Two	Three	Four
INR	22,500	37,500	52,500	67,500
Service tax (12.36%)	2,781	4,635	6,489	8,343
Total	25,281	42,135	58,989	75,843
USD	525	875	1,225	1,575

Sponsorship opportunities are available

- There is a special low fee of Rs 7,000 per participant for the state electricity boards and their successor units (state-owned gencos, transcos and discoms), regulatory authorities and academic institutions.
- **Registration will be confirmed on receipt of the payment. To register online, please log on to <http://indiainfrastructure.com/conf.html>**

Payment Policy:

- Full payment must be received prior to the conference.
- Conference fee includes lunch, tea/coffee and conference materials.
- Payments for "early bird" registrations should come in before the last date of discount.
- Conference fees cannot be substituted for any other product or service being extended by India Infrastructure Publishing Pvt. Ltd.
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