THE ENERGY AND RESOURCES INSTITUTE (TERI)

In-association with

India Smart Grid Forum (ISGF)

presents

3 Day Management Development Programme on

“Smart Electric Grid for 24x7 Power: Development and Deployment”

February 18-20, 2015, TERI Gram, Gurgaon, Haryana

About the Programme: Ministry of Power (MoP), Government of India has further fostered establishment of the India Smart Grid Forum (ISGF), and India Smart Grid Task Force (ISGTF) for accelerated development of Smart Grid technologies in the Indian power sector. Recently, fourteen Smart Grid pilot projects have also been shortlisted for implementation in various states in the country. The proposed functionalities in these projects include Advanced Metering Infrastructure (AMI), Peak Load Management (PLM), Outage Management Systems (OMS), Power Quality Management (PQM) and distributed generation. In-addition, Ministry of Heavy Industries and Public Enterprises (MoHIPE), Government of India has also recently launched a National Mission for Electric Mobility (NMEM) with a target of 6 million electric vehicles (4 million two-wheelers, and 2 million four-wheelers) by 2020. Recently, Ministry of Urban Development (MoUD), Government of India has announced to build 100 Smart Cities across the country with Geographic Information System (GIS)-based town planning, through using of the latest ICT technologies and infrastructure, integrated waste management, and advanced transport systems by 2022.

The newly elected government in India is determined to provide 24x7 electricity to all household by 2019 and have recently announced 3 focused programs towards this goal with a total outlay of USD 14 Billion. Besides the government has set up very ambitious goals for Renewable Energy – 100 GW of Solar and 50 GW of Wind by end of this decade. The new Government has also announced an ambitious program to build 100 Smart Cities on fast track. With all these ground breaking initiatives, India has already emerged as the prime destination for Smart Grids and Smart Cities. For successful implementation of all these programs, Smart Grid Technologies are going to play vital role.

Therefore, it is utmost important whatever experiences, lesson-learned envisaged worldwide has to be shared through proper knowledge dissemination in structured way. It is observed that there are number of regional, national and international initiatives, covering different aspects of Smart Electric Grid i.e., technology development, pilot demonstration of Smart Grid projects, formulation of standards and protocols, training and capacity building etc. Although a Smart Electric Grid is perceived to be the future architecture of the power grid, the major challenge is to find-out the appropriate human resources in the country who can understand, develop the smarter system, and subsequently be able to operate and manage the system. There is a huge shortfall of trained engineers and managers in next five years in the power sector in India, which is not only to be filled but also has to be well equipped to manage the future power grids.
Currently, although several institutions are imparting training on different aspects of Smart Grid, however there is a need of sustainable, holistic, integrated, multi-disciplinary, pragmatic training programme on Smart Electric Grid for different target groups. Hence, TERI in-association with India Smart Grid Forum (ISGF) is going to organize a 3-days Management Development Programme (MDP) course, which will help the participants to understand the relevance of smart grids, its potential and challenges, and enable them to play a critical role in the Smart Grid development in the country. The training programme will also give a fairly good exposure to the practical aspects of smart grids, and its components through lab/field visits. It will also provide a platform for the participants to have a peer-to-peer technology discussion forum with the experienced industry experts on various aspects of Smart Grid.

**Who should attend:** The programme is aimed at Engineers, Managers responsible for the operation and maintenance of power generation systems, Transmission systems, Distribution systems, Genco’s, Transco’s, Discoms, transmission planners, consultants, Officers of Power Utilities/Corporations, State Govt./SEBs, Industry professionals, policy makers, entrepreneurs, Energy Planners, Private Entrepreneurs, Manufacturers, and Financial Institutions, etc.

**Programme Director & Faculty:** Mr. Alekhya Datta is the Programme Director, he would be assisted by faculty with hands-on experience (from TERI, TERI University, India Smart Grid Forum, IT industries, Semiconductor industries, Control and Automation industries, System integrators, International laboratories, others independent experts etc.) having more than 20 years of experiences in their respective fields. Few faculty would be available from International firms to share their international experiences.

**Programme Curriculum:**
- Defining Smart Electric Grid;
- Smart Grid Experiences – Case Studies (Globally)
- Programme and Policies on Smart Grid – Indian Initiatives;
- Advanced Metering Infrastructure (AMI)
- Smart Grid Communication Technologies, and Cyber Security;
- Demand Side Management (DSM) System, and Demand Response (DR)
- Outage Management System (OMS), SCADA and DMS
- Enterprise GIS and Smart Electric Grid;
- Smart Grid Interoperability and Standards in Indian context;
- Role of Distributed Generation based Mini-Grid Systems in Smart Grid;
- Smart Grid Pilot Projects in India;
- Regulatory Aspects and Current Challenges in Smart Grid Deployment in India;
- Learning through Lab/Field Visits.

**Venue:** TERI RETREAT, Gual Pahari, Gurgaon, Haryana
Resource Efficient **TERI Retreat** for Environmental Awareness and Training (RETREAT), Gurgaon, is a part of TERI’s Gual Pahari campus, located about 30 km south of Delhi. The beautifully landscaped 36-hectare site that includes a garden featuring prize-winning roses, is living testimony to TERI’s research. Equipped with a residential training facility for executives, it is designed to be self-sufficient and independent of any external power supply. There are two semi-circular blocks comprising the living quarters, a conference centre with a large hall, as well as a dining room, lounge and recreational facilities, and a library.

**TERI RETREAT**  
Gual Pahari  
Gurgaon Faridabad Road  
Dist. Gurgaon (Haryana)  
Tel: 0124-2579320-326

**Program Fees**: INR 30,000/- per participant (including service tax @ 12.36%) [For Residential Participants]

**Additional Discount of 10% on the programme fee for the members of India Smart Grid Forum**

**Note**: The fee includes program fee, course material and course kit. The residential participants would be provided three nights stay (with boarding, lodging and arrangements for Breakfast/Lunch and Dinner with tea/snacks during the program). Reaching the program venue would be the responsibility of the concerned participant.

The number of residential participants is restricted to **30** and the registration will be on the **first-come-first served basis**.

Please confirm your nomination/participation by returning the enclosed Registration Form duly filled-in along with the registration fee.

**Payment Options**

(a) The payment needs to be made in favor of “The Energy and Resources Institute” in the form of Demand Draft payable at New Delhi. Kindly dispatch the duly filled registration form with the demand draft at the address mentioned in the registration form.

(b) The payment against the program fee can also be made through the online mode (NEFT/RTGS transfer); the bank details are mentioned below:

Name of the A/c Holder - The Energy and Resources Institute  
Savings Account Number - 524122907894  
Name of the Bank - State Bank of Hyderabad  
Branch - SCOPE Complex, New Delhi – 3  
NEFT IFSC Code - SBHY0020511  
RTGS IFSC Code - SBHY0020511  
9 Digit MICR Code - 110004005

Please ensure that the code “**MDPSMGDR**” is mentioned as reference to the payment made through online mode.
Participants Registration Form

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“Smart Electric Grid for 24x7 Power: Development and Deployment”
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Program Fees: INR 30,000/- per participant (including service tax @ 12.36%) [For Residential Participants]

We are nominating the following from our company to attend the Programme:

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Sponsoring Organization: ___________________________________________________________

Name: ___________________________________________________________________________

Address: __________________________________________________________________________
____________________________________________________________________________________

Phone: __________________________ ISGF Membership No. ____________________________

Mobile: _____________ Email ____________________________

Authorized Signatory ____________________________

Enclosed find cheque/demand draft no __________ dated __________ for Rs __________ in favour of “The Energy and Resources Institute” towards Programme fee.

Note:
Pre-Registration and pre-payment is a must.
Programme fee is neither non-refundable nor adjustable against any other event of TERI.

The completed Registration Form with Account Payee Cheque/Draft or with the details of the online payment should reach the following address 7 days in advance prior to commencement of the programme.
Ms. Sakshi Gaur | The Energy and Resources Institute (TERI) | Darbari Seth Block, IHC Complex, Lodhi Road | New Delhi 110003, INDIA | Tel. (+91 11) 2468 2100 and 4150 4900 | Fax: (+91 11) 2468 2144 and 2468 2145 | E-mail: sakshi.gaur@teri.res.in