CALL FOR PAPERS

If you would like to present a paper at the conference please visit our website: www.regridintegrationindia.org

- To submit a paper, upload an abstract of maximum 3,000 characters (free style) between 25 January & 18 April 2019.
- Final papers must then be submitted online by 31 July 2019.
- As the conference language is English, all abstracts have to be written in English.
- All participants are responsible for paying their own travel and hotel expenses.
- Conference registration is free.

The Conference provides an International Forum to:

- Discuss technical and economic issues of the large-scale integration of solar and wind power including the recent advances in transmission technologies (AC and DC)
- Discuss worldwide project experiences
- Discuss innovative ideas and present results from ongoing research
- Stimulate interdisciplinary thinking between renewable energy and power transmission and distribution industries, as well as universities
- Identify subjects requiring more research efforts

The Government of India has set the very ambitious goal to install 175 GW of renewable energy generation capacity by 2022. Grid integration thus becomes a very critical challenge to successfully accomplish this target. This international conference aims to connect international experts and Indian stakeholders to jointly discuss the latest technological, regulatory and conceptual developments in this field.
TOPICS

PROJECT EXPERIENCE
• World-wide project experience related to Wind Energy/PV/CSP/storage grid connection
• World-wide experience with large-scale integration of Wind Energy/ PV/CSP/storage power into power systems
• World-wide experience with balancing power systems with high shares (more than 15% in energy terms) of variable renewable energy (VRE)
• World-wide grid integration experience – the ISO/TSO perspective

WIND & SOLAR MODELLING ISSUES
• How to estimate the value of Storage for integration of RE in the grid through modeling/simulation studies
• How to estimate the value of Hydro for integration of RE in the grid through modeling/simulation studies
• Modelling of inverters and wind/solar power plants for system integration studies (static and dynamic) including methods of testing and verification of compliance with requirements and technologies (on grid side and power plant side) to facilitate integration

POWER SYSTEM BALANCING ISSUES
• Power balancing methods and solutions, e.g. balance markets, to manage VRE variability in power systems
• Flexibility of the conventional power plants
• New power system operation tools and methods for balancing VRE

GRID CODE ISSUES
• World-wide interconnection standards – grid codes for wind turbines, wind power plants, solar systems and solar system models for system planning and interconnection studies
• Compliance testing for grid codes – world-wide status and approach
• Case studies/Necessary Changes in grid code to integrate larger volumes of VRE (more than 20% of overall energy supply)

FORECASTING
• Wind/PV/CSP/storage power monitoring and prediction systems
• State-of-the-art wind/solar resources forecasting, power generation forecasting, applications of forecasting in scheduling and other power system operations and management and opportunities for improvement
• Demand forecast with distributed wind/PV and storage i.e. net demand forecasting in high solar rooftop/ behind the meter installation areas

HYBRID POWER SYSTEMS
• Design and operation of hybrid systems with wind/PV/CSP/storage and their applications/benefits in participating in the energy market

SMART GRID/IT INNOVATIONS
• IT technology applications for the integration of wind/solar power and storage
• Microgrids and other new ideas to increase the share of VRE in power systems
• Virtual power plants and role of VPPs in facilitating RE and integration of RE
• Communication, control and coordination between power plant and power system control centers
• Demand response in smart grid context

ELECTRIC VEHICLES
• Role of Electricity Regulator in enabling the transformation from diesel/gas vehicles to Electric Vehicles
• Role of Distribution Utilities in promotion of EVs and integrating EVs in the distribution grid
• Challenges and issues, if any, in integrating EVs into the grid (both at transmission and distribution voltage)
• Power system planning with EVs