

# **Technical Talk on**

## **Short-term Forecasting for Optimal Generation Scheduling and Demand Management**

**Date:** Friday, May 18<sup>th</sup>, 2018

**Time:** 3:00-5:00 pm

**Venue:** **National University of Singapore**  
Seminar Room E3-06-09, Block E3, Faculty of  
Engineering, National University of Singapore.

**Presenter:** **Dr. Naran M. Pindoriya**  
Assistant Professor,  
Department of Electrical Engineering,  
IIT Gandhinagar, India.

### ***Jointly Organized By:***

**Green Energy Management and Smart Grid Research Center (GEMS),**  
Department of Electrical & Computer Engineering,  
National University of Singapore

and

**IEEE Power & Energy Society, Singapore Chapter** and  
**IEEE PES National University of Singapore Student Branch**

*(Light Refreshments will be served after the seminar)*

### **ABSTRACT**

#### **Short-term Forecasting for Optimal Generation Scheduling and Demand Management**

This talk focuses on importance of short-term forecasting tool for system operator, power producers and distribution companies for better management of electrical energy in smart grid. Time series model and neural network based models will be discussed for solar PV, wind power generations and electricity price forecasting in day-ahead horizon and very short-term time horizon for real data set of these variables.

## Speakers Biography



**Dr. Naran M. Pindoriya** is an Assistant Professor in Electrical Engineering at Indian Institute of Technology Gandhinagar, India. Before he joined IIT Gandhinagar, he was a research fellow in the Department of Electrical and Computer Engineering at the National University of Singapore, Singapore in 2010. He received Ph.D. in Electrical Engineering from Indian Institute of Technology Kanpur, India in 2009. His research interests include active distribution grid, microgrid, load forecasting, and demand side energy management. He has developed the Power Systems and Smart Grid (PS&SG) research laboratory at IIT Gandhinagar. The PS&SG research group has published the research findings in scholarly research journals and peer-reviewed conferences.

He is the recipient of BHAVAN fellowship awarded by IUSSTF, Newton-Bhabha award, IEEE PES Gujarat Chapter Outstanding Engineer award and faculty award for Excellence in Institute building. He is a senior member of IEEE, Fellow of IETE, member of IE (India) and Life member of ISTE India.

More details on: <http://naran.people.iitgn.ac.in/>