

Registration

- A. For registering your participation, we need you to complete online registration form no later than 6:00pm, August 15^h 2010. Seats are limited to 100.
- B. Once your application is confirmed, you will receive a mail with further details.
- C. Non-IEEE members' applications will attract a fee of Rs.150/- in the form of DD/Local Cheque/Cash payable at Hyderabad in favor of IEEE Hyderabad Section.
- D. Complete the online application form at

Confederation of Indian Industry, AP Chapter

The Confederation of Indian Industry (CII) is a non-government, not-for-profit, industry led and industry-managed organization, playing a proactive role in India's development process. CII works to create and sustain an environment conducive to the growth of industry in India, partnering industry and government alike through advisory and consultative processes. Founded over 115 years ago, it is India's premier business association, with a direct membership of over 8100 organizations and an indirect membership of over 90,000 companies.

IEEE-PES/IAS/PEL Society

IEEE Hyderabad Section formed in 1981 is one of the most active Sections in India. It has about 2400 members. PES/IAS/PELS chapter is a joint chapter of three IEEE societies – the Power & Energy Society (PES), Industry Application Society (IAS) and Power Electronics Society (PELS). This joint chapter is very active with many technical events and awards to its credit.



Who will benefit?

- Power engineers working in Wind Energy area who are involved in the Design, Operation and Development of Power System Structures.
- Researchers and Academicians who are seeking new areas in research and exploring the latest technological developments.
- Entrepreneurs who are in the Wind Power Energy business.

If you have any queries, please contact:

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For Driving Directions, please visit

<http://bit.ly/a1OR7H>

Venue

Monday, 23rd August 2010,
1430 to 1800hrs

CII-Green Business Centre,
Sohrabji Godrej Green Business
Centre, Survey # 64, Hi-tech city road,



Confederation of Indian Industry
Since 1895



The Institute of Electrical and
Electronics Engineers (IEEE)

PES/IAS/

With Support from
Confederation of Indian Industry (CII),
Andhra Pradesh Chapter

Half Day Tutorial on

Development of Massive Wind Power
Plants:

Integration Issues;

Developer, Owner & Operators' Perspective



Monday, 23rd August 2010

1430 to 1800hrs

**CII-Green Business Centre- Auditorium
Hyderabad**

About the Speaker

Venkata Subbaiah Pasupulati, P.E.

Sr. Director of Power Systems Engg.,
Oak Creek Energy, a Marubeni Company.

Mr. P.Subbaiah is a Licensed Professional Electrical Engineer in California, USA. He received his MS in Electrical Engineering from University of Texas, Arlington. He was with Energy Unlimited Inc., a Wind Power Plant in Palm Spring, California where he was responsible to oversee the operations of the plant and presently is with Oak Creek Energy System Inc as the Sr. Director of Power System Engineer & Technology. He was involved in design and development of 2.5 GW plus wind power plants in the Tehachapi area. He participated in California Southern Regional Transmission Plan 2006 conducted by California Independent System Operator which came up with Tehachapi's Renewable Transmission Plan. He is a member of the IEEE, CIGRE & PMI. He is an active member of WEC-C's Technical Studies Subcommittee, Wind Generator Modeling Group, IEEE Wind Collector System Design Working Group and was a participant of NERCs IV GTF phase 1 work plan.



Scope of Tutorial

Considering the strong global desire for shifting the generation base to renewable energy, it is important to understand the characteristics of this renewable generation in order to meet the future challenges that come with its integration. It is noticeable that the wind energy has become a big player among the renewable and seems to be leading the group going forward.

This tutorial intends to give the audience an insight into wind power development, its characteristics (both the capabilities and limitations) and its interaction with rest of power systems. The tutorial will start with a brief history of wind generation and will cover the following:

- ◇ Different **Wind Turbine Technologies** that exist today from 60 kW to 8 MW, from induction machines to permanent magnet machines, from Danish Vestas machines to Indian Kenersys machines and so on.
- ◇ The complete **Life cycle of Wind Power Plants** which include various stages such as site selection, resources assessment, site layout, collector system design, permissions, construction, commissioning, grid interconnection, testing, certification, operations, re-powering and so on
- ◇ **Grid Interconnection Process and Issues** which include various stages in the interconnection process, studies involved, resources/data/models required and available for studies. This also covers various current/future interconnection requirements such as voltage ride through, frequency ride through, voltage/power factor control, frequency regulation, communication standards and so on.
- ◇ **Selected Grid Disturbance events** in the past from various regions on the globe with relevance to wind.

