PVWEPS-2013
A Two day National Workshop on Future Challenges and Issues of Photovoltaic and Wind Energy Sources in the Power Sector
2nd - 3rd AUGUST 2013
(Under TEQUIP Phase II)

REGISTRATION FORM

Name: _______________________________

Designation: ___________________________

Department: ___________________________

Category: Students/Research Scholars/Faculty /Industry

Organization: ___________________________

Address: _______________________________

Phone/Mobile Number: ___________________

Email: _________________________________

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Signature of the Participant

Convener
Dr. T.R. Jyothsna

Co-Convener
Smt. R. Vijaya Shanthi

Organized By
Department of Electrical Engineering
A.U. COLLEGE OF ENGINEERING (A)
ANDHRA UNIVERSITY, VISAKHAPATNAM
ANDHRA PRADESH, INDIA
www.andhrauniversity.edu.in

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ABOUT THE A. U. COLLEGE OF ENGINEERING (A)
Andhra University is a premier Institute of higher education in India which was established in 1926. It is one of the oldest universities which was accredited by NAAC with ‘A’ grade and has established an international image in academic excellence. The university has five constituent colleges and four AU campuses. Keeping in pace with global needs and challenges under the leadership and guidance of successive vice-chancellors, the university is offering several new courses of relevance and contemporary significance. The present engineering college is located in a 167 acre land now called North Campus of University. The restructuring of the university colleges saw the emergence of Andhra University College of Engineering in 1960 and from its inception the college has strengthened itself and at present it is offering 17 UG and 42 PG programmes with full autonomous status bestowed by UGC.

ABOUT THE DEPARTMENT
The Department of Electrical Engineering was started in 1955 as one of the three constituents of the Department of Engineering in Andhra University. The status of the Department was given in 1969. The department has grown significantly and currently offers a UG program in Electrical and Electronics Engineering and PG programs in Power Systems & Automation and Control Systems Engineering. The department introduced a Five year MS integrated course in Electrical and Electronics Engineering and an evening PG programme on Power Electronics Drives and Control. The department has well established laboratories like Electrical Machines, Networks and Measurements, Power Electronics, Control systems, Digital Electronics & Microprocessors. The department organized several workshops/refresher courses for practicing engineers in industry and academicians. The department had undertaken consultancy projects in collaboration with NSTL.

The teaching faculty of the department is actively involved in research activities in the areas of power electronics, control systems and power systems. The current research is focused on Renewable Energy Systems, Distribution Generation, FACT Controllers, Power System Stability.

SCOPE AND OBJECTIVE OF THE WORKSHOP
The current scenario of power sector in India focuses on the growing share of renewable energy. However, the planning and development processes for renewable energy and the electric grid lack coordination; as a result, transmission and grid-integration problems are a major hindrance for the solar industry. The need for effectively interconnected high-level penetration of PV systems is important.

The workshop provides an in-depth analysis of the current status of development of PV technology, introduces the challenges, issues for utility-scale PV and will provide an in-depth analysis of the issues surrounding the use of batteries for PV applications.

This workshop brings together researchers, PV system developers, academia, and several experts to discuss the potential impacts of PV variability and uncertainty on power system operations. Interaction and discussion will encourage participants to engage in strategic thinking and discuss practical measures.

The two day workshop discusses about the issues, opportunities and challenges for interconnecting wind and solar plants and provides insight and understanding to integrating renewable generation into the transmission system.

TOPICS TO BE COVERED
- Introduction to Solar Energy and Fundamentals of PV
- In depth knowledge of Photovoltaic Plant Components
- MPPT Controller: Concepts & Operation in PV systems
- PV plant and system design principles
- Off Grid and Grid Tied Power Plants
- Role of different storage media in photovoltaic systems
- DC/DC and DC/AC power electronics converters: Concepts & Operation in PV systems
- Stand-alone Inverter and inverter-charger functions and interface for SPV off-grid and grid-support applications
- Challenges and Innovations in On-Shore and Off-Shore Wind Farms

RESOURCE PERSONS
Reputed faculty from IIT, NIT, other university engineering colleges.

TARGETED PARTICIPANTS
Research scholars, faculty and industry personnel.

REGISTRATION
Students/Research Scholars : Rs. 500/-
Faculty : Rs. 1000/-
Industry personnel : Rs. 2000/-

LAST DATE FOR REGISTRATION : 30th July 2013

ACCOMMODATION
Participants should make their own arrangements. If accommodation is required please inform beforehand, so that we can assist you.

Mailing Address :
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