

**REPORT ON 2nd IEEE NATIONAL CONFERENCE ON EMERGING TRENDS
IN NEW AND RENEWABLE ENERGY SOURCES AND ENERGY
MANAGEMENT (NCET NRES EM-2014)**



A two day national conference titled as 2nd IEEE NATIONAL CONFERENCE ON EMERGING TRENDS IN NEW AND RENEWABLE ENERGY SOURCES AND ENERGY MANAGEMENT (NCET NRES EM-2014) was organized on December 16th and 17th 2014. Chief guest for the inaugural function was Dr.N.R. Alamelu Chairperson, IEEE – Madras Section and the keynote speaker was Er. K.V. Rupchand, chairman, IEEE Power and Energy Society, Madras Chapter.

Coordinators for the conference were Ms. L.Chitra Associate Professor and Mr.V.Rattan kumar Assitant professor grade II , Dr.A.Prabakaran, Principal was the conference chair and Dr.N.Veerappan, HOD / EEE was the conference co-chair. The conference was technically sponsored by IEEE Madras Section and IEEE Power and Energy Society, Madras Chapter.

The objective of the conference was to provide a forum for presentation of latest developments, ideas, and applications to the field of electric power, energy management, new and renewable energy sources and computer application in power system. The major goal was to promote industry institute interaction and faster collaboration. The conference provided an opportunity for sharing original research contributions and practical development experiences among researchers and application developers. Another important area of thrust is Energy security and climate change which is the concern of the humanity across the globe. This conference aims to create awareness among the industries, institutions and the public on the importance of energy saving and renewable energy in the present context of global warming.

The conference mainly emphasize on the following themes but not limited to

Main stream forms of renewable energy

- 1) Wind power
- 2) hydro power
- 3) Solar energy
- 4) bio-mass
- 5) bio-fuel.

Sub stream form of renewable energy

1. Animal and Human power
2. Building-integrated photovoltaic
3. Community wind energy
4. Energy security and renewable technology
5. High altitude wind power
6. Hybrid renewable energy system
7. Nuclear power as renewable energy
8. Renewable energy commercialization
9. Grid connected solar power
10. Standalone wind power to individual loads

New and emerging renewable energy technologies

1. Cellulosic ethanol
2. Ocean energy
3. Enhanced Geothermal Systems

4. Nanotechnology thin-film solar Panel

An exclusive web site NCET NRES EM-2014 was created with the aim of giving wide publicity and to facilitate the participants to know the up to date information and development of the conference. 80 papers were received from all over the country. Plagiarism was checked and papers were reviewed by the expert committee. The papers received are classified into the following six themes :

1. Power electronics
2. Power system
3. Communication
4. Instrumentation
5. Computing techniques
6. Renewable energy

The oral presentation of the registered papers was completed in three digital class rooms simultaneously from 11.30 am to 3.30 pm on 16-12-2014 and from 9.30 am to 1.00 pm on 17th December 2014. The sessions were chaired by the following persons

1. Dr.A.Rathinam , Asst .Prof (SLG) , SRM University, Chennai
2. Dr.S.Sriraman , Former Dean , EEE , Saveetha engineering college, Chennai
3. Mr.D.Vijendra Babu , HOD, ECE , AVIT, Chennai
4. Dr.M.A.Dorairangaswamy, Sr.Professor & HOD/CSC,AVIT, Chennai

Valediction of the conference was held on 17-12-2014 from 2 pm to 3.30 pm with Dr. P.A.Manoharan, Technical Officer “C” Research and innovation Centre DRDO , Ministry of defense , IIT Madras research park , Chennai as chief guest.

Technical and financial support was received from IEEE madras section and IEEE Power and energy society madras chapter.

The Peer reviewed, plagiarism checked, registered, eligible papers and orally presented in conference will be recommended for publication in the IEEE Xplore digital library.