

9th National Conference on New & Renewable Energy Technologies

27th April, 2018

Venue: PSG College of Technology, Coimbatore, India

Organized by
Department of Mechanical Engineering
PSG College of Technology

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Objective:

- The objective of this conference is to bring out current and future development trends in the fields of energy efficiency and renewable energy technologies. This conference will provide opportunities to the academicians and student community to update their knowledge in the latest technologies.

Conference Theme

Energy is an important input for economic development today and the world's energy supply is largely based on fossil fuel power. This will not last forever and are the proven contributors to environmental degradation. Further, this has led to rethinking seriously about alternative sources of energy by the governments and industries around the globe. This along with declining availability of the fossil fuels have led to the development of renewable energy resources such as biomass, biofuels, wind, solar, geothermal, and hydro energy etc.

Current global trends in energy supply and consumption are not sustainable – environmentally, economically, socially but this situation can be changed if we can secure the supply of reliable and affordable energy and effect a rapid transformation to a low-carbon, efficient and environmentally benign system of energy supply. Since exhaustible energy sources are limited, there is an urgent need to focus attention on development of renewable energy sources and use of energy efficient technologies. It is estimated that renewable energy could contribute to at least half of all electric power in each of the large economies by 2050.

India is blessed with an abundance of sunlight, water and biomass. Vigorous efforts have been taken in the past two decades are now bearing fruits as people in all walks of life are aware of the benefits of renewable energy, especially in the decentralized energy systems, which are urgently required in all villages and in urban or semi-urban centers. India has the world's largest programme on renewable energy. India was the first country that has created an exclusive Department of Non-conventional Energy Sources (DNES) in 1982 to promote, develop and commercialize the use of renewable energy sources. In 1992, a full-fledged Ministry of Non-conventional Energy Sources (MNES) was established. Later it was renamed as Ministry of New and Renewable Energy (MNRE).

This conference aims at bringing together a number of experts and manufacturers of renewable energy systems in the world to a common platform to discuss and develop strategies for accelerated growth of renewable energy as an alternate source of energy. The conference will provide an opportunity to discuss economic, technical and legal issues concerning the growth and development of alternate energy use.

About PSG College of Technology

PSG College of Technology started in the year 1951 by the PSG & Sons' Charities Trust is an AICTE approved autonomous institution affiliated to Anna University and ISO 9001 certified. Most of the UG & PG programmes have been accredited by National Board of Accreditation (NBA). PSG College of Technology believes in creating and disseminating knowledge and skills in core and frontier disciplines through innovative educational programmes, industrial training, research & consultancy and developing a new cadre of professionals with a high level of competence, deep sense of social commitment and ethics. PSG College of Technology has collaborative arrangements with industries, research laboratories and universities abroad in various areas of joint academic programmes, research and training.

Department of Mechanical Engineering

The department has evolved a comprehensive student-centric learning approach, designed to add significant value to the learner's understanding in an integrated manner through workshops, lab sessions, assignments, industrial training, seminars, internships, projects and independent study. Mechanical engineering department, one of the oldest departments, offers two UG and five PG programmes. Also, several doctoral candidates have registered for PhD work with the department. The department has been recognized as the Best Department in Mechanical Engineering discipline for its Industry-Institute Interaction practice by CII-AICTE survey, 2012. Many national and international assignments focusing on Climate, Energy, Water and Environment have also been carried out.

About Coimbatore City

The city of Coimbatore, known as the Manchester of South India, is blessed with a salubrious climate. The City has large concentration of Universities, Medical & Engineering Colleges; and Arts & Science Colleges. The city has very large Industrial base in SME Sector covering Textile and Engineering Products. Coimbatore is well connected with other major cities of India by road, rail and air. Hill stations like Ooty, Kodaikanal, Mudumalai Wild life Sanctuary and Top Slip are within easy reach from Coimbatore. Temples of Perur, Maruthamalai and Avinashi bear testimony to the architectural heritage of Tamil Nadu. Madurai, Trichy, Tanjore and Kanyakumari are other places of Tamil Nadu worth visiting and can be reached easily from Coimbatore.

Topics of Coverage

- Wind Energy Technologies and Applications
- High Altitude Wind Power and Offshore Wind Farms
- Solar and Low Energy Architecture
- Solar Trigenation
- Solar Thermal Technologies
- Concentration or solar thermal
- Integrated Photovoltaics
- Nano thin film solar panels
- Osmotic Power Technology
- Biofuel Technologies
- Biomass Conversion and Gasification
- Marine Biomass Production
- Microbial Fuel Cell
- Fuel Cells and Hydrogen Technologies
- Enhanced Geothermal Systems
- Hydro Power Technologies
- Pico Hydro Power Technology
- Ocean Energy Systems
- Tidal Power Technology
- Magneto hydrodynamics(MHD)
- Low Carbon Technologies
- Life Cycle Assessment (LCA)
- Energy and Environment Policy Regulations
- Micro-grid and Grid synchronisation
- Application of Power electronics in RECS

Paper Submission Guidelines

Prospective authors are kindly invited to submit full text papers including results, tables, figures and references. All articles should report original, previously unpublished research results, experimental or theoretical. Papers would be reviewed based on the originality of the work, quality and relevance to the main theme of the conference.

Note: All Selected papers will be published in National Journal of Technology (ISSN Code: 0973-1334) and International Journal of Multidisciplinary Research and Modern Education (ISSN: 2454 - 6119)/.

Submission Instructions

- ❖ E-mail your paper and covering letter to babu.mech@psgtech.ac.in, dept@egy.psgtech.ac.in.
- ❖ Please name your files using the name of the first author.
- ❖ Please note that papers MUST be in MS Word IEEE format.
- ❖ If you have any questions or problems about these instructions, please do not hesitate to contact us at babu.mech@psgtech.ac.in, dept@egy.psgtech.ac.in

Important Dates

Deadline for Full Paper submission : 01st April 2018
Conference : 27th April 2018

Accommodation

Registered participants shall make their own arrangement for accommodation.

Registration Fee

The registration fee for (inclusive of service tax) delegates from

Industrial Sectors/Corporate sectors	: Rs. 2500
Teaching Institute/Research Organization	: Rs. 1500
Students/Research scholars	: Rs. 1000

Delegates are requested to send the demand draft drawn in favour of “**PSG CNCE**” payable at **Coimbatore**.

Organizing Committee

Chief Patron	:	Shri L. Gopalakrishnan , Managing Trustee, PSG & Sons' Charities
Patron	:	Dr R. Rudramoorthy , Principal, PSG College of Technology
Conveners	:	Dr P.R.Thyla , Professor & Head Department of Mechanical Engineering, PSG College of Technology
Organizing Secretaries	:	Dr R. Velavan , Professor Dr K.Kannan , Associate Professor Dr S. Babu , Associate Professor Department of Mechanical Engineering, PSG College of Technology
Co-ordinator	:	Mr R. Jegathishkumar , Assistant Professor Department of Mechanical Engineering, PSG College of Technology

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Organizing Secretary
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