

IEI Celebrates Energy Conservation Day

The Institution of Engineers (India) celebrated Energy Conservation Day all over the country on December 14, 2018. Brief account of the celebration as received from various Centres are reported hereunder.

STATE CENTRES

Andhra Pradesh

The Chief Guest, Mr Venu Kumar Balla, Country Manager & Wind Engineering Consultant, CPP Wind Engineering & Air Quality Consultants, Mumbai explained the concept of Non-conventional Energy Resources and wind energy. He further narrated about the current trends in this sector in various countries and its potentiality. Mr Balla emphasized more on green energy buildings construction and Solar Panel erections on tall structures like, towers, stadiums etc. On this occasion, Mr K M Ambedkar, Divisional Engineer (Construction), APEPDCL, Eluru while addressing the gathering, stated that for every purpose, several energy resources play an important role in daily life. Earlier, Dr P K Rama Rao, Chairman of the Centre, in his address briefed about the activities and other benefits of the IEI in general. Dr K Brahma Raju, Council Member of IEI explained elaborately the benefits of enrolling the budding engineering into the fold of IEI. Mr P Charan, Department of Electrical & Electronics Engineering, Sir C R Reddy College of Engineering, Eluru proposed the vote of thanks.



Delhi

The Chief Guest Mr A K P Singh, Member Secretary, Northern Power Regional Committee, Ministry of Power, Govt. of India, in his address apprised that all conventional forms of energy are fast depleting. He stated that every day population across the world uses energy for leading a civilized life. 'These resources are the critical input of human development which comprises providing adequate food, shelter, drinking water, sanitation, medication, schooling, transportation, industrial applications, access to information etc.', he opined. Earlier, Mr Dinesh Kumar, Chairman of the Centre, in his welcome address highlighted the importance of energy consumption and its use in our day-to-day life. He further stated that it focuses the attention of significant issues facing the future of mankind with aspect to energy. Mr Jitendra Kumar Sharma, Honorary Secretary of the Centre coordinated the function and proposed the vote of thanks.



Gujarat

Mr Niraj S Shah, Automation & Robotic Expert spoke on 'Renewable Energy Resources'. He explained various types of non-renewable resources such as, crude oil, coal and gas. 'Renewable resources are mainly five types, namely, Solar Energy, Wind Energy, Geothermal Energy, Biomass Energy and Water or Hydro Power', opined by Mr Shah. He also described all five types of renewable energy sources in details with its advantages and disadvantages and also from cost economic comparisons. Mr Shyam Varghese, the Honorary Secretary of the Centre proposed vote of thanks.



Kerala

The Speaker on the occasion, Prof V K Damodaran, Former Director, Energy Management Centre, Kerala, while speaking on the topic, 'Energy, Climate Change, Floods and How much of these can we have', stated that the energy conservation is needed due to the dwindling energy resources, to ensure sustainable future and to reduce loss of lives due to air/water pollution. 'Cumulative carbon dioxide emissions are getting closer to the 3010 GT Carbon budget until 2100 AD and the effect is already visible in the form of climate change', he added. He further narrated that efforts are being made to increase the voltage of electricity transmission lines to reduce the losses, thereby enabling longer / wider distribution networks for this clean energy. Earlier, Mr N Rajkumar, Past Chairman of the Centre welcomed the gathering. Mr Asok Kumar K, Honorary Secretary of the Centre proposed the vote thanks.



Manipur

Mr N Shyamsundar Singh, Chairman of the Centre, in his welcome address spoke about different aspects of Energy and its importance in this knowledge era. Beginning with definition of Energy and its forms, Mr Singh continued to highlight the need for Energy in day-to-day life, the growth in this demand, the issues facing the generation of energy, the fast depletion



of finite reserve of fossil fuels & natural gas and other impacts on the environment that cause climate change. He also emphasized upon the urgent need for judicious use of energy and conserving it as a most precious commodity. Earlier, Mr A Roudrajit Moirang, Honorary

Secretary of the Centre welcomed the guests and dignitaries present on the occasion and briefly narrated about the observation.

Punjab & Chandigarh

The Chief Guest, Mr Harwinder Singh Bansal, Deputy Chief Engineer, Punjab State Power Corporation Ltd. (PSPCL), Patiala highlighted the importance of electricity in today's world. He emphasized on the fact that the growth of a country depends upon how much energy is saved. In this context, he insisted on the importance of LED bulbs in saving electrical energy. 'Around 3 lakh units has been saved in Super Thermal plant by the use of four star motor pumps and also by the efforts of PSPCL losses like, tempering have been reduced', stated by Mr Bansal. On this occasion, Dr R Jha, Director General & Director (R&D), IET Bhaddhal, Technical Campus spoke on the Efficient Energy Management in India. He mentioned about various forms of energy and how it is being used in different sectors. 'There is a need to shift towards improvement in operational efficiency of existing power stations, reduction of T&D losses and using end products having Energy Efficiency like 4/5 star ratings', as opined by Dr Jha. Earlier, Mr Janak Raj Garg, Chairman of the Centre in his welcome speech highlighted the achievements of IEI in the field of energy conservation. Mr S S Mundi, Honorary Secretary of the Centre proposed the vote of thanks.



Tamilnadu

Mr K R Ajith Kumar, Additional Director, PCRA, while speaking on the theme, 'Energy Conservation in Daily Life : Industry & Domestic' explained about the PCRA integrated energy solution provider activities in different sectors like commercial, industrial, agriculture, transport, domestic etc. Mr F Sathiyaraj, Deputy Director, Southern Region, PCRA delivering speech

on 'Energy Scenario & Eco-Driving' stated that eco driving means smarter and more fuel efficient manoeuvring of a vehicle and it represents a new driving culture that makes best use of advance vehicle technologies, while improving road safety. Mr S Mahadevan, Consulting Engineer spoke on the theme 'Compressed Bio Gas (CBG) as Automobile Fuel in place of Petrol and Diesel - Potentials and Emerging Opportunities'. Mr Mahadevan, in his speech, explained that bio-gas is produced naturally through a process of anaerobic decomposition from waste / bio-mass sources like agriculture residue, cattle dung, sugarcane press mud, sago industries waste, municipal solid waste, sewage treatment plant waste, etc. Dr S Sankara Narayanan, Executive Engineer, TANGEDCO, speaking on 'Minimum Energy Maximum Results' highlighted the green building concept, which uses less water, less natural resources, less power, generate less waste, provides healthier living spaces. Earlier, Mr R Ramdoss, Chairman of the Centre welcomed the gathering. Mr P Gomathi Nayagam, Honorary Secretary of the Centre proposed the vote of thanks.

Telangana

Dr B Janardhana Reddy, Metropolitan Commissioner, Hyderabad Metropolitan Development Authority (HMDA) graced the occasion as Chief Guest and inaugurated the function. On this occasion, Mr N Janaiah, Vice Chairman & Managing Director, Telangana State Renewable Energy Development Corporation Ltd. graced the occasion as Guest-of-Honour. During the Inauguration, two technical talks were conducted by Prof Nishanth Donagari, IIT Hyderabad and Prof Naga Sujatha, Department of Electrical & Electronics Engineering, Jawaharlal Nehru Technological University Hyderabad. Earlier, Dr G Rameshwara Rao, Chairman of the Centre welcomed the gathering.



Tripura

Dr Murhari S Kele, Chairman-cum-Managing Director, Tripura State Electricity Corporation Ltd, Agartala graced the occasion as Chief Guest. Dr Kele in his address, deliberated on Energy Conservation Act of India. Mr Syantan Chakraborty, Head, Department of Electrical & Electronics Engineering, ICAI University, Tripura was also present during the program. Earlier, Mr Tapas Bhattacharya, Honorary Secretary of the Centre welcomed the gathering and Mr Tapan Lodh, Chairman of the Centre presided over the function.



Uttar Pradesh

The Chief Guest, Mr Sanjay Tewary, Director (P&A), Uttar Pradesh Rajya Vidyut Utpadan Nigam, stated that conservation of energy is the need of the hour in the modern world today, which serves two important and useful purposes viz. the energy saves fuel and the health of environment is directly proportional to the energy saved. He further emphasized on the necessity of conservation of energy and various ways to conserve the same. The Keynote speaker, Ms Varalika Dubey, Chief Engineer, Uttar Pradesh Power Corporation Ltd. dealt at length various ways to conserve energy such as, using energy efficient devices, use of solar energy in place of conventional energy. She also stated that use of Energy Conservation Building Code (ECBC) must be used for construction of all



the building. Earlier, Mr R K Trivedi, Chairman of the Centre welcomed the guests. Mr P K Chaurasia, Honorary Secretary of the Centre proposed the vote of thanks.

LOCAL CENTRES

Alwar

Mr B S Meena, Superintendent Engineer, Jaipur Vidyut Vitran Nigam Limited, Alwar and Mr Aditya Sharma, Superintendent Engineer, Public Health Engineering Department, Govt. of Rajasthan, Alwar graced the occasion as Chief Guest and Guest-of-Honour respectively. The function was presided over by Mr Manohar Lal Yadav, Chairman of the Centre. Mr K L Sharma, Immediate Past Chairman of the Centre spoke on 'Energy Conservation'. Mr S C Joshi highlighted on many aspects of energy and its conservation. Mr A K Gupta proposed the vote of thanks at the end of the function.



Anpara

The Chief Guest, Mr C P Mishra, General Manager, DTPS, addressed the gathering and highlighted the importance of energy conservation. Mr Prasant Kumar, Anpara Thermal Power Project in his keynote address, presented a detailed account of various issues concerned with the topic 'Recent Advances in Energy-Water-Food Nexus'. Earlier, Mr D K Singh, Immediate Past Honorary Secretary of the Centre welcomed the august gathering.



Bareilly

Mr Sovan Mohanty, Assistant Professor, Shri Ram Murti Smarak Institution, Bareilly mentioned that Government is trying to focus on the Natural Energy Conservation and it is possible when every people make the proper mind to think and work for saving of natural energy. Mr S C Sundrani, Past Chairman of the Centre suggested that each and every citizen of India must be aware about how to use efficient energy and how to save the energy for their own future safety and many more ways. Earlier, Mr Subhash Mehra, Chairman of the Centre, in his inaugural address urged that the day is celebrated to aware people about the importance of energy as well as saving or conserving more energy by using less energy. Dr Pankaj Sharma, Honorary Secretary of the Centre proposed the vote of thanks.



Bokaro Steel City

The Chief Guest, Mr S K Sahoo, General Manager (Energy Management Department), SAIL-Bokaro Steel Plant, in his speech stressed upon maximizing use of air & solar energy being cheap as well as pollution free and also explained the actions initiated to reduce the energy consumption in steel production of Bokaro Steel Plant. Mr K K Sanyal, Deputy General Manager (EMD), SAIL- Bokaro Steel Plant in his address, elaborated each unit of Bokaro Steel Plant where energy is being saved. Mr Y N Singh, Chairman of the Centre, in his welcome speech emphasized to inculcate in the minds of every people in the country as well as all over world to make a habit for less use of energy by avoiding unnecessary use of energy and stressed on maximum use of renewable energy instead of non-renewable energy. Mr D P Jha, Honorary Secretary of the Centre proposed the vote of thanks.



Coimbatore

Dr S Babu, Associate Professor, School of Energy, Department of Mechanical Engineering, PSG College of Technology, Coimbatore graced the occasion as Chief Guest and delivered speech on the topic 'Recent Trends in New and Renewable Energy Technologies'. Earlier, Dr M Senthilkumar, Immediate Past Honorary Secretary of the Centre welcomed the gathering and presided over the function. Dr M



Senthilkumar, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks.

Faridabad

The Chief Guest, Mr Rohit Kumar, Joint Director, Petroleum Conservation Research Association (PCRA) shared his experiences related to special efforts made to conserve energy. Mr Rajesh from National Small Industries Corporation deliberated on the effective use of Energy Management System. He explained at length that how energy can be saved by using simple techniques like, replacing light bulbs, using smart power strips, installing smart thermostats etc. Earlier, Chairman of the Centre, Mr Subhash Chander, in his opening address mentioned that the objective of this event is to highlight the initiatives in energy in the domestic, industrial, transport and services sector in view of sensitizing and creating a synergy around an effective management of energy. Mr Sandeep Handa, Honorary Secretary of the Centre proposed the vote of thanks.



Ghaziabad

The Chief Guest, Mr S C Sharma, former Director (Technical), THDC India Ltd. apprised about the importance of the day explaining different innovative methods, ideas & technology to be used at large to save energy. The Keynote Speaker on the occasion, Mr Akshay Kumar Attrey, former Chief Commercial Manager, Indian Farmers Fertiliser Cooperative spoke on the theme of the day. The Guest-of-Honour, Mr Sanjay Bharti, Senior General Manager (Technical), DS Group highlighted about the measures adopted in their industry



to conserve the energy by way of providing energy efficient equipments and adopting technology available for the purpose thus saving energy and money considerably. Mr R R Tanwar, Council Member of IEI also graced the occasion and insisted upon members to be more sincere and dedicated to educate people and end users regarding the energy conservation methods available in the interest at large. Earlier, Mr J P Singh, Chairman of the Centre welcomed all the dignitaries and guests. Dr Satish Chandra Gupta, Honorary Secretary of the Centre proposed the vote of thanks.

Gorakhpur

The Chief Guest, Dr Aseem Satydeo, Principal, BRD PG College, Gorakhpur suggested to reduce the consumption of power and the energy. He stressed on the change of lavish lifestyle and minimizing the dependency on machines in daily life. The Keynote Speaker, Dr S K Hassan, Associate Professor, Chemistry Department, Institute of Technology and Management described the share of power generating stations and appliances in increasing the environmental problems, being faced today. He appreciated some states



of India like, Maharashtra, Kerala, Rajasthan have been trying to create the Energy Conservation awareness. Earlier, Dr Rajkumari Pandey, Principal, DAV PG College delivered the welcome address. Mr V K Srivastava, Honorary Secretary of the Centre proposed the vote of thanks.

Kanpur

The Guest Speaker on the occasion, Dr K G Arvind Kumar, IIT Kanpur, while speaking on the topic 'Energy Conservation and Best Practices of Industries in India', enumerated that Energy Conservation is achieved when growth



of energy consumption is reduced and it can, therefore, be the result of several processes or developments, such as productivity increase or technological progress. He further explained that economic growth is desirable for developing countries,

energy is essential for economic growth, if India is to achieve the targeted GDP, it would need commensurate input of energy, mainly commercial energy in the form of coal, oil, gas and electricity. Dr Kumar concluded that there is considerable potential for reducing energy consumption by adopting energy efficiency measures at various sectors of our country. Earlier, Prof D P Mishra, Immediate Past Chairman of the Centre delivered the welcome address. Dr Rajat Kumar Khare, Honorary Secretary of the Centre proposed the vote of thanks.

Kota

Mr C P Jhamb, Former Site Director, NPCIL Rawatbhata and Mr A K Gupta, Former Managing Director, JVVNL, Jaipur graced the occasion as the Chief Guest and the Guest-of-Honour respectively. The Guest Speaker on the occasion, Mr Purushottam Dhariwal, Superintendent Engineer, Kota Super Thermal Power Station spoke on saving energy and emphasized that today's energy saving is a production of future.



Another Guest Speaker Dr D K Yadav, Associate Professor, Rajasthan Technical University, Kota deliberated on saving energy and future energy. Earlier, Mr Anand Bardava, Chairman of the Centre delivered the welcome address and presided over the function. Mr Sunil Bohra, Honorary Secretary of the Centre extended the vote of thanks.

Ludhiana

Dr Arvind Dhingra, Energy Auditor and Faculty, Guru Nanak Dev Engineering College, Ludhiana, in his address stated the need of energy conservation and presented an insight into means to conserve energy. 'Since the energy



reserves of the world were declining, it becomes pertinent to save energy', he added. Dr Dhingra further urged that installing of energy-saving devices is required including energy-saving lighting schemes.

'maintaining proper power factor in industry and having right capacity motors would help in saving lot of energy', he opined. Earlier, Mr Surjit Singh, Honorary Secretary of the Centre, in his welcome speech, mentioned that energy conservation is the need of the hour. Mr R L Mahajan, Chairman of the Centre shared his experiences in saving energy for bulk energy consuming industries.

Madurai

The Chief Guest Mr J Goldwin Williams, Chief Engineer/Distribution, TANGEDCO, Madurai Region, Madurai presented a detailed statistics of electricity scenario in Tamilnadu and how to conserve the electrical energy in our daily use. Earlier, Mr S Rajagopal, Chairman of the Centre, in his welcome

address, urged the gathering to use electricity only when it is required and emphasised the importance of the conservation of energy. Mr R Narayanasamy introduced the Chief Guest to the audience. Mr M Savariraj, Jt. Honorary Secretary of the Centre proposed the vote of thanks.



Meerut

Mr Ashutosh Niranjana, Managing Director, Pashchimanchal Vidyut Vitaran Nigam Limited (PVVNL), graced the occasion as Chief Guest. The Speaker on the day Mr Sanjay Anand Jain, Chief Engineer (Commercial), PVVNL highlighted about the background of Energy Conservation Act. He informed



about various initiatives taken by PVVNL to reduce T&D losses and gave figures of achievements during preceding years and informed about distribution of efficient agricultural pump sets in rural areas. Earlier, Immediate Past Chairman of the Centre, Mr S C Govil, in his welcome address, introduced the theme by highlighting the need of conservation of Energy in the present context. Mr M L Jain, Honorary Secretary of the Centre proposed the vote of thanks.

North Bengal

Mr Sandipan Ganguly, Assistant Professor, Department of Civil Engineering, Jalpaiguri Govt. Engineering College, Jalpaiguri delivered speech on the theme, 'Recent Advances in Energy-Water-Food Nexus'. Mr Ganguly explained that energy is required for extraction, production and treatment of water, which is needed for production of energy. He further narrated that balanced utilization of these resources is required to resolve global issues of hunger, poverty, improving health and economical and physical development. Mr Santanu Das, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Palghat

The Guest Speaker Mr K Madhana Mohan, IRSEE, Former Deputy Chief Electrical Engineer, Railways spoke on the topic 'Emerging Renewable Technologies at a Glance in Harnessing Geothermal and Fuel Cell Renewable Energy'. He explained that due to more and more urbanization and industrialization, there is an ever growing demand for energy on one hand and the fossil fuels are depleting rapidly on the other hand, causing a greater concern in energy sector. Advanced technologies will help to manage geothermal resources for maximum power production, improve plant operating efficiencies and develop new resources like hot dry rock, geo pressurized brines and magma', he added. Dr V Balakrishnan Panicker,



Former Principal of NSS College of Engineering emphasized the need for developing the technologies to prevent energy loss as maximum as possible while converting one form of energy into another form. Mr K Unnikrishnan, Chairman of the Centre presided over the function. Mr A Ramesh, Honorary Secretary of the Centre proposed the vote of thanks.

Rourkela

Mr B P Pandey, Manager (EMD), SAIL- Rourkela Steel Plant, while speaking on the theme, 'Energy Efficiency in Iron & Steel Industry', highlighted about

the energy conservation, its importance, energy challenge and global energy in daily life. He further enumerated on energy saving potential in various sectors viz. agriculture, industry, transport, domestic and commercial. He elaborated on comprehensive insight to Energy Management System (EMS) requirement covering management responsibility, energy policy, energy planning, implementation and operation, checking and management review in order to improve the energy efficiency. Earlier, Prof H M Jena, Honorary Secretary of the Centre welcomed the gathering.



Saurashtra

Prof D J Pandya, Head, Electrical Engineering Department, Institute of Technology & Science, Rajkot spoke on the theme. Prof Pandya, in his address, focused on various aspects viz. use of LED lamp, use of electronics regulator



in fan, use of energy efficient devices, green building etc., which can only create awareness among the people in the society towards conservation of energy. Earlier, Dr Ashit A Pandya, Chairman of the Centre and Prof G D Acharya, Principal, Atmiya Institute of Technology & Science, Rajkot

welcomed the august gathering. Mr Ranchhod K Babaria, Honorary Secretary of the Centre proposed the vote of thanks.

South Gujarat

Prof Naimish Zaveri, Head, Electrical Engineering Department, C K Pithawala College delivered the keynote address and spoke on 'Present Indian Energy Scenario with conservation and issues related to Audit and Power Quality' in today's concept. Earlier, Dr K N Mistry, Past Chairman of the Centre welcomed the dignitaries and briefed about the activities of IEI. Mr D G Patel, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Sunabeda

Mr Dilip Kumar Garg, Deputy General Manager (Mechanical), National Aluminium Company (NALCO), Damanjodi and Mr Netaji Subudhi, Deputy General Manager, Govt. of Odisha graced the occasion as Chief Guest and the Guest-of-Honour respectively. Mr Sunil Kumar Biswal, certified Energy Auditor, Odisha



delivered the Keynote Address. Earlier, Mr Nirod Chandra Behera, Chairman of the Centre delivered welcome address. Mr Arabinda Swamy, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

Trichur

Mr V G Sankaranarayanan, Chairman of the Centre presided over the function. Mr T K Jos, General Manager (Projects & Construction), FACT Engineering and Design Organisation, Kochi delivered the lecture on 'More Stars more Savings'. Mr Sasidharan Achari M N, Honorary Secretary proposed the vote of thanks.

