

Theme: Renewable Energy: Global Cooperation for Sustainability



The 8th World Renewable Energy Technology Congress & Expo-2017 was held from 21-23 August 2017 at New Delhi, India and served as an excellent platform for the global renewable energy industry to address various industry issues including innovations, new technologies, investment opportunities and project financing. www.wretc.in

Shri Piyush Goyal, Union Cabinet Minister of Railways and Coal, Government of India addressed a distinguished gathering of delegates attending the 3-day 8th World Renewable Energy Technology Congress. Hon'ble Minister emphasised the 3Ds - Decarbonization, Decentralization, Digitalization, in today's global engagements on energy. He further reiterated that "With each passing day we are running out of time and we need to accelerate our efforts in coordination to promote clean energy and to reduce greenhouse gas emissions. He added, "I am sure this event of Technology will make renewable energy more attractive particularly for emerging and growing economies like India, especially when renewable energy costs are down as compared to other forms of conventional energy".

“The 3 'D's

- De-carbonisation,
- De-centralisation
- Digitisation

of energy space will define the energy sector in the future.

Piyush Goyal, Hon'ble Union Cabinet Minister Railways and Coal
Government of India

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RECIPIENTS OF ENERGY AND ENVIRONMENT FOUNDATION GLOBAL EXCELLENCE AWARDS in RENEWABLE ENERGY SECTOR 2017

Shri Piyush Goyal, Hon'ble Union Cabinet Minister of Railways and Coal, Government of India gave away Energy and Environment Foundation Global Excellence awards 2017 in the Renewable Energy Sector :

Dr. Martin Keller, Director, National Renewable Energy Laboratory, U.S. Department of Energy, Colorado USA;



DR. MARTIN KELLER
Director, National Renewable Energy Laboratory
U.S. Department of Energy, Colorado, USA

Dr. Dolf Gielen, Director Innovation and Technology Centre International Renewable Energy Agency, Germany;



DR. DOLF GIELEN
Director, Innovation and Technology Centre (IITC)
International Renewable Energy Agency, Germany

Dr. Lawrence E. Jones, Vice President, International Programs Edison Electric Institute, USA;



DR. LAWRENCE E. JONES
Vice President, International Programs, Edison Electric Institute, USA

Dr. R. Seetharaman, Chief Executive Officer, Doha Bank, Saudi Arabia;



DR. R. SEETHARAMAN
Chief Executive Officer, Doha Bank, Qatar

Mr. Pranav Mehta, Chairman, National Solar Energy Federation of India.



MR. PRANAV MEHTA
Chairman, National Solar Energy Federation of India



Dr. Ajay Mathur, Director General, The Energy and Resources Institute & Chairman Steering Committee, WRETC delivered the welcome address and said *"We have to find supporting technologies that can help us to move low cost renewable energy as and when we needed through grid and off-grid solutions"*.

Delivering the theme address Mr. Anil Razdan, Chairman Energy And Environment Foundation highlighted the need for *"Ensuring access to energy mix through global cooperation by evolving an integrated strategy for meeting the energy needs of the global citizen and a sustainable planet"*.

Dr. Upendra Tripathy, DG, International Solar Alliance (ISA) delivered the special address and urged *"Exploit solar energy through technology so that poor get benefitted"*.

Mr. K. S. Popli CMD IREDA and Co-Chairman Steering Committee, WRETC urged that *"Stepping up of private investments and introduction of new investment vehicles, such as masala green bonds, crowd funding have created a positive movement in the renewable energy market across the world"*.

Mr. Rajinder Kaura, CMD, Bergen Group of Companies was of the opinion that *"Government should take care to create an interface between industry and academia for new energy technology forces to rope in renewable energy"*.

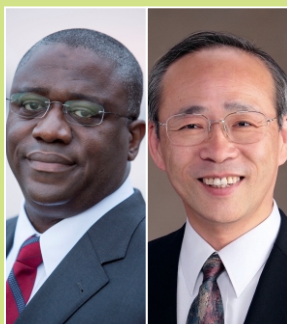
Dr. Anil K. Garg, President, World Renewable Energy Technology Congress emphasised the *"Importance of Global Cooperation for Sustainability in Renewable Energy Sector"*.

ABOUT THE 8th WORLD RENEWABLE ENERGY TECHNOLOGY CONGRESS 2018

8th WRETC-2017 conference deliberated various issues related to RE Commitment in COP-21: National & International Perspective, Panel Discussion on Innovative Financing of RE Projects, Energy Storage and Future of Electric Vehicles (New Trends and Technologies), Smart Cities – Smart Rooftop Solar – Smart Grids, Waste Management and Waste-to-Energy, RE — Make-in-India: Policy Gap, Advances in Bio-Energy, Biofuels and Hydrogen.

The conference & expo was attended by national and international delegates. The conference brought together leading international and domestic players, policy makers, government officials and technocrats on a common platform. The Conference had concurrent sessions on interactive panel discussions on “New Perspectives of Renewable Energy”, “Sustainable Smart Energy Technologies, Innovations and R&D” and Thought Leadership Summit on “Renewables Energy: Skill Development & Capacity Building”. The conference had served as an important gateway for worldwide new energy companies to access the Indian market to foster partnerships and collaborations with local players.

As per the available feed-back, all the participants of the 8th WRETC-2017 had gained through the presentations and deliberations by the distinguished speakers, specially by Dr. Martin Keller, Director, NREL, U.S. Department of Energy, Colorado, USA, Mr. Sanjiv Singh, Chairman, IndianOil Corporation Limited, Mr. Dolf Gielen, Director, Innovation and Technology Centre International Renewable Energy Agency, Germany, **Dr. Etsuo Akiba, Professor, International Research Center for Hydrogen Energy, Kyushu University, Japan**, Dr. Kyriakos Maniatis, Principal Administrator, Unit C2 - New Energy Technologies Innovation & Clean Coal, DG ENER, European Commission, Brussels, Belgium, Dr. Ashvini Kumar, Former Managing Director, Solar Energy Corporation of India, Mr. A. K. Jain, CMD, Rajasthan Electronics & Instruments Ltd., Dr. Rahul Walawalkar, Executive Director, India Energy Storage Alliance, **Dr. Lawrence E. Jones, Vice President, International Programs, Edison Electric Institute, USA**, **Mr. Kyoji Kunitomo, President and CEO, Clarendon Institute Co., Ltd., Japan**, Mr. Anil Poluru, Head Utility-India, Trinasolar, Mr. Pratyush Kumar Thakur, Chief Operating Officer, Statkraft BLP Solar, Ms. Kanika Khanna, Director, Sunkalp Energy, Dr. Tarlochan Kaur, Head, Department of Electrical Engineering, PEC University of Technology, Dr. G. Ganesh Das, Head-Strategy, Business Excellence & Collaborations, Digital & Business Intelligence, Tata Power Delhi Distribution Limited, Dr. B.S. Negi, Director General, Sardar Swaran Singh National Institute of Bio-Energy, Dr. Praveen Saxena, CEO, Skill Council for Green Jobs, Ms. Ritu Lal, VP – Business Development, Amplus Energy Solutions, Mr. K. R. Raghunath, Managing Director, KIS Group, Mr. Prerit Agarwal, Vice President-Commercial and Utility Solutions, Locus Energy, Mr. Joe Phelan, Director, WBCSD India, Dr. Bibek Bandyopadhyay, Former Advisor MNRE, Dr. Bharat Bhargava, Director General, ONGC Energy Centre, Mr. Ajay Prakash Shrivastava, President, Maharishi Solar Technology Pvt. Ltd., Prof. Dr. Peter Novak, Director, Institute of High Technologies and Systems, Energotech D.O.O., Slovenia, **Dr. Toshihiro Hirai, Executive Director, Technology Forum for the Future Asia, Japan**, Mr. R. Vijayalayan, Technical Manager, MathWorks India, Ms. Tanya Batra, Head-Business Development, Ezysolare, Ms. Radhika Choudary, Co Founder, Freyr Energy Services Private Limited.



Special Mention

Dr. Lawrence E. Jones, Vice President, International Programs, Edison Electric Institute, USA highlighted the “*R&D in New Li-ion batteries and their storage power and cost*”.

Dr. Etsuo Akiba, Professor, International Research Center for Hydrogen Energy, Kyushu University, Japan emphasised the “*Use of Hydrogen in Vehicles with the application of solar cells*”.

The Resolutions adopted in the 8th WRETC-2017



The 8th WRETC-2017 convened at the Convention Centre-New Delhi City Centre, Delhi, India through August 21-23, 2017, held extensive discussions on various facets of Renewable Energy technology development, its penetration, financing, future prospects and synergy with conventional systems. The Congress made the following declaration:

- The Congress reiterated the resolve to ensure Energy for All by 2030, cleaner cooking fuels, cleaner air and attainment of the universal Sustainable Development Goals, 2015.
- The Congress appreciated the sincere commitment of developing / emerging countries like India towards meeting the commitments made at COP 21.
- The Congress noted with satisfaction that Renewable Energy has attained grid parity with conventional sources of energy in many countries. It appreciated this breakthrough.
- Systems should integrate new renewables with conventional energy systems to synergise the energy system to ensure harmonious development in industry and electricity.
- Improvement in international cooperation and exchange of new development in Renewable Energy technology is desirable.
- Renewable Energy should be harnessed across the energy chain for providing electricity, mobility and heat as a comprehensive energy source.
- Manufacturing facilities for new renewables should be located equitably across the consuming countries so that job creation and maintenance go hand in hand with installation of generation facilities. The maintenance of RE systems is as important as installation.
- The steep fall in prices of solar PV is posing a threat to existing solar PV systems, and the danger of purchasers abandoning the Power Purchase Agreements. There is need to protect the validly executed Power Purchase Agreements, through the life of the assets. Otherwise there will be acute financial distress in the sector.
- A much closer interface between industry and academia, preferably in a symbiotic relationship, will result in faster and more focused development of products and trained manpower, and the most economic development of resources.
- The dramatic reduction in cost of offshore wind energy is very encouraging.
- There is need for supporting research and development for cheaper storage options and new battery materials.
- For the commercial viability of renewables in the electricity sector, there is need to ensure open access, and stability in transmission and distribution charges, besides development of smart grids for load management, integration and grid stability.
- The Renewable Energy landscape necessitates concurrent investment in forecasting, monitoring and storage of Renewable Energy in view of its intermittent characteristic.
- In spite of the steep fall in solar PV tariffs there is need to work aggressively towards maximisation of the utilization of the solar spectrum to increase efficiency of solar cells, in view of land and location constraints.
- Hydrogen as a fuel needs to be developed. The extraction of carbon from biomass and hydrogen through solar energy could be utilized to produce methane and methanol, an easily storable energy source with wide applications.
- There is need to accelerate the deployment of sustainable bio fuels in order to decarbonise transport.

Energy And Environment Foundation invites the global green renewable energy community to assemble again at New Delhi, India in 21st to 23rd August 2018 for the 9th World Renewable Energy Technology Congress & Expo-2018.

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