

2nd Online Debate

India's Energy Transition – Aspirations, Preparedness and Way Forward

March 16, 2022 16.00-17.30 IST

Background

With the increasing the share of non-fossil energy sources, particularly the renewable energy (RE), in the electricity sector and adopting cleaner technologies, India is expected to decarbonize its growth by , achieving the 33-35% reduction in emission intensity of GDP by 2030, a commitment it assented to in the international fora. The target to achieve 175 GW of RE capacity by 2022 has been revamped to 450 GW through non-fossil fuels by 2030. Given the current RE capacity of nearly 100 GW, much work is to be done to reach the target. India's Energy Transition strategy also includes, adoption of green Hydrogen, zero carbon mobility as well as and digital innovation across the energy landscape.

The increasing share of RE in the power system raises concerns due to variability and uncertainty associated with RE generation, particularly wind and solar. Need for energy security, proper energy mix, the role of Nuclear, Coal, Storage, resource adequacy in all the time horizons, system resilience to uncertainties and flexibility of the system, etc., remains the key aspects underlining greater integration of RE sources.

Availability of transmission corridor to evacuate RE generated from grid-connected sources to load centers, and the readiness of the local distribution network to assimilate greater penetration of behind the meter RE generation, are some of the key aspects that beg the attention of the regulators, policymakers as well as the utilities. The top-down approach generally emphasizes the importance of flexibility of the system constituents, including storage. A bottom-up operational perspective that captures the role of Demand response in enabling this "flexibilization" remains elusive.

India's energy transition forms the overarching backdrop as I-AEE's launches a series of dialogues, drawing upon national as well as international expertise, to bring together noted industry leaders, regulatory and policy makers and academia.

Agenda

March 16, 2022 16.00 to 17.30 IST

IST	Session	
16:00-16:15	Welcome address 'Introducing the Indian Association of Energy Economics (I-AEE)'	Dr. Sushanta Chatterjee President, I-AEE
16:15-17:15	Panel Discussion Speakers: <ul style="list-style-type: none">• Dr. R. B. Grover (Padma Shri, Emeritus Professor, HBNI, Fellow of the Indian National Academy of Engineering, Member of Indian Atomic Energy Commission)• Mr. Partha.S. Bhattacharya (Former Chairman, Coal India Ltd, & Former MD, Haldia Petrochemicals Ltd.),• Dr. Winfried Damm, (Head of Indo-German Energy programme, (GIZ) GmbH),• Mr. Anurag Pandey, Reliance, (Group Lead, Hydrogen Economy, R&D, Reliance Industries Ltd.)	Moderated by Prof. Anoop Singh Vice President, I-AEE
17:15 – 17:25	Q&A with audience	Dr. Debajit Palit/ Dr. Gireesh Tripathi
17:25 – 17:30	Closing remarks	Mr.S K Soonee/ Mr S P Sethi

Event registration link: <https://forms.office.com/r/zfKgyWog>

Profile of the Speakers

Dr. Ravi B. Grover is an Indian nuclear scientist. He is a mechanical engineer from the prestigious Delhi College of Engineering and holds a Ph.D. from the Indian Institute of Science, Bangalore. He is the founding vice-chancellor of the Homi Bhabha National Institute, a member of the Atomic Energy Commission, and a fellow of the Indian National Academy of Engineering. Dr. Grover was also the president of the Indian Society of Heat and Mass Transfer for 2010–2013. He retired as Principal Adviser for the Strategic Planning Group, Department of Atomic Energy (DAE), in 2013. He was Homi Bhabha Chair during 2013-18 and is now emeritus professor, HBNI. Dr. Grover was awarded Padma Shri by the Government of India in the year 2014.



Dr. Ravi B Grover

Mr. Partha S Bhattacharyya is the Former Chairman of Coal India Ltd, & Former MD, Haldia Petrochemicals Ltd. He has Masters in Physics from Jadavpur University, and a Cost Accountant joined Coal India as a Management Trainee in 1977 and rose to become its Chairman in October 2006. Forbes magazine has recognized him as a high achiever of 2010 (December 2010 issue). The CIL IPO and his role in CIL have been covered in detail in the December 2010 issue of 'Euromoney' – an internationally acclaimed financial journal. During his tenure CIL achieved Miniratna, Navaratna and Maharatna that remains the fastest ascendancy in the history of PSUs. He also received the Swami Vivekananda Excellence Award in Corporate Leadership for 2010, the 'CEO of the Year' award by the Indian Chamber of Commerce in December 2010, and World HRD Congress in February 2011.



Mr. Partha S Bhattacharyya

Dr. Winfried Damm is the Head of Indo-German Energy Programme, (GIZ) GmbH. He graduated from FU Hagen, Germany, received an MBA from Michigan State University (USA), and a Ph.D. from FU Berlin. He worked as a member of the national parliament in the energy sector and joined the municipal utility (Stadtwerke) of Leipzig in 1992. He had been involved in many national legislative outcomes starting with the first feed-in-law for renewables up to capacity market discussions. He pushed Leipzig to one of the leading cities in e-mobility. Dr. Damm started working with Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) in December 2014 and joined the GIZ India office in January 2015 as Director of the Indo-German Energy Programme.



Dr. Winfried Damm

Dr. Anurag Pandey leads the techno strategic group dealing with various aspects of New Energy, particularly the Hydrogen Economy at RIL. He has close to two decades of S&T experience in various aspects of materials-and-process engineering, hydrogen-and-fuel cell technology, and alternate energy. For the last ten years, Dr. Pandey has been ardently working on clean energy solutions, particularly fuel-cell technology, and the hydrogen economy, and has explored various aspects of hydrogen economy for its techno-commercial viability. He enjoys analyzing technologies and their symbiotic relationship to draw important inferences to find a holistic and sustainable solution using sound first principles, an essential aspect of the new energy world.



Dr. Anurag Pandey

About I-AEE

The Indian Association of Energy Economics (I-AEE) is a chapter of the International Association of Energy Economics (IAEE).

IAEE's mission is to enhance and disseminate knowledge that furthers understanding of energy economics and informs best policies and practices in the utilization of energy sources.

IAEE's objective is to provide for the mutual association of people interested in energy economics in order to create a forum for professional, multi-national, multi-disciplinary discussion and to provide a means of professional communication and constructive dialog.

I-AEE would follow suit and develop an independent forum bringing together Indian energy economics practitioners and academicians to discuss, develop and collaborate to further our collective knowledge in this domain.

Indian Association for Energy Economics Board Members

					
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Membership link: <https://forms.office.com/r/iVx54jvYqe>

For further details on the I-AEE chapter contact:

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