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Ministry of Science & Technology

Experts discuss recent innovations trends adopted in decarbonisation and promotion of Hydrogen based technologies

India's ambitious targets of achieving 450 GW power generation by 2030 from renewables: Prof. Ashutosh Sharma

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Eminent Experts, Scientists, and Technocrats from India and Japan discussed the most recent innovations, trends, concerns, and solutions adopted in the field of decarbonisation and promotion of Hydrogen based technologies at the India-Japan Webinar on De-carbonisation: Exploring the Hydrogen Prospects and Innovative Technologies.

His Excellency Mr. Sanjay Kumar Verma, Ambassador of India to Japan, said that 38% of India's total installed electricity generation is based on renewables. This is about 136 Giga Watts now, and we expect to reach a target of 175 GW by next year and 450GW by 2030. Therefore, he said that hydrogen can play a critical role as a clean fuel in achieving this ambitious goal.

“Japan is the first country to formulate a basic hydrogen strategy. Hydrogen is included in the fifth Energy plan of Japan. The country thus has a good ecosystem for R&D and commercialization, which could be

plan of Japan. The country thus has a good ecosystem for R&D and commercialization, which could be used by the Scientific and Commercial Communities of the two countries. India and Japan have strategic relationships, and this has to be elevated to a strategic partnership enabling sharing of knowledge without any inhibition on Hydrogen and utilization of H₂ in future,” he pointed out.

Mr. MIYAMOTO Shingo, Minister, Head of Economic Section, Embassy of Japan, New Delhi, underlined that in Japan, companies like Toyota have already operationalised commercially available hydrogen-powered vehicle, and this is much more than a simple electric-powered vehicle.

“India & Japan are in a very good position to work together in the area of producing eco-friendly hydrogen, for example from bio-fuel with a possibility of the two countries cooperating in this area is huge,” he added.

Prof. Ashutosh Sharma, Secretary, Department of Science and Technology (DST), GoI, highlighted India’s ambitious targets of achieving 450 GW power generation by 2030 from renewables.

“This means that India has to look at energy storage options which are green, unlike batteries and Hydrogen certainly is a very good candidate, he said.

He further informed that DST, GoI has initiated several programmes to develop technologies to reduce the cost of hydrogen production, distribution, storage, diversify the feedstock available for hydrogen production, for example, biomass, agricultural waste and so on. DST has supported about 30 projects in last few years related to Hydrogen production, distribution, and storage at a cost of 5 Million US\$, looking into new catalysts like producing hydrogen from water splitting.

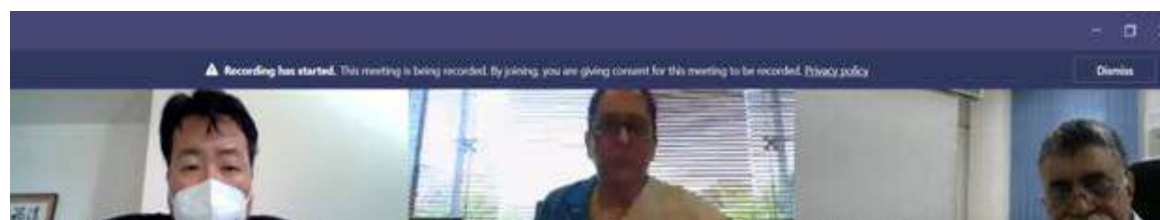
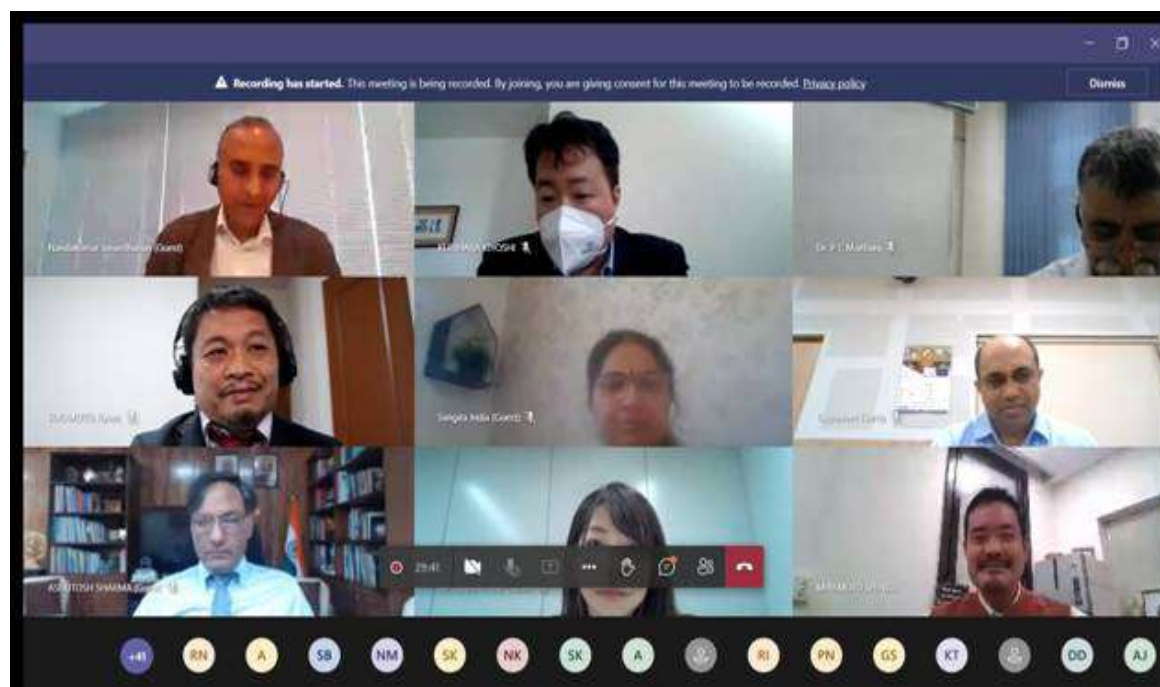
The webinar jointly organized by the Embassy of India in Japan, **Department of Science & Technology** (DST), Government of India along with The Institute for Global Environmental Strategies (IGES), Japan, and **The Energy and Resources Institute** (TERI), India, on 19th April 2021 brought together several experts in the field from the two countries.

Mr OHIRA Eiji Director-General, Fuel Cell and Hydrogen Group, New Energy and Industrial Technology Development Organization (NEDO), Japan, presented his ideas on NEDO’s approach to realize a hydrogen Society and Green growth strategy through achieving carbon neutrality in 2050.

“Hydrogen has a potential role to play in major sectors in India. Given the scale of future demand, India should be proactive in manufacturing electrolyzers to produce green hydrogen. A greater cross-sectoral coordination between the governments can help realize the economy benefits of hydrogen fuel. The key industries need to come together to catalyse decarbonisation allowing risk-sharing and minimizing the burden at the individual company level” said Dr. Vikas Khanna, Director General, The Energy and

burden at the individual company level, said Dr Vibha Dhaawan, Director General, The Energy and Resources Institute (TERI).

Prof. KAZUHIKO Takeuchi, President, The Institute for Global Environmental Strategies (IGES), Japan, Mr. SUGIMOTO Ryuzo, Director of the International Cooperation and Sustainable Infrastructure Office, Ministry of Environment (MoEJ), GoJ Ms ARAKI Mai, Deputy Director, International Affairs Division, Agency for Natural Resources and Energy, Ministry of Economy, Trade and Industry (METI), GoJ Dr P. C. Maithani, Scientist-G, Ministry of New & Renewable Energy (MNRE), GoI Dr Sangita Kasture, Scientist-F, Department of Bio-Technology (DBT), GoI were among the other experts who presented their views on accelerating efforts towards greater collaboration & realizing higher Hydrogen decarbonisation. Dr Usha Dixit, Counsellor (S&T), Embassy of India, Tokyo, GOI, was also present at the event.





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