

PRESS NOTE

VIZAG-THE HYDROGEN CITY; IIFE TO PLAY LEAD ROLE

Date: 24th July, 2023

A 3-day Global Energy Environment Summit focussing Hydrogen, namely 'Hydrogen Energy Resource & Opportunity (HERO) 2023' is being conducted by Indian Institute of Petroleum and Energy, Visakhapatnam at Hotel Novotel, Visakhapatnam. The inauguration of the event was held on 24th July, 2023.

Shri Pankaj Jain, Secretary, Ministry of Petroleum and Natural Gas, Government of India was the Chief Guest and delivered the Keynote Address. Prof. G.K. Surya Prakash, George A. and Judith A. Olah Noble Laureate Chair in Hydrocarbon Chemistry, Department of Chemistry, University of Southern California and Dr. M. Kamalakar Babu, MD & CEO of Andhra Pradesh Solar Power Corporation were the Special Guests and addressed the participants.

Academicians from national and internationally reputed institutions, Industry personnel from Oil & Energy Sector and Government Officials participated in the Summit. A Delegation specially flown from US attended the event.

In the inaugural event, **Prof. Shalivahan, Director, IIFE** welcomed all the participants and informed that the Institute's primary goal of research is to meet the country's fossil and non-renewal energy demands. The stress of the Institute towards Internationalisation and Industry oriented projects. He informed that being as an energy institute, IIFE also has a great responsibility to contribute towards achieving the United Nations Sustainable Development Goals (UN SDGs) i.e. ensuring access to affordable, reliable and sustainable modern energy for all. He emphasised that IIFE is committed to research towards realising the "Panchamrita" concoction for the climate conundrum, the climate solution offered by the Hon'ble Prime Minister of India at the COP26 convention at Glasgow. He informed that IIFE facilitates the students to acquire knowledge, helps them develop skills and experience and cultivates a socially-responsible research mind-set.

Prof. Somnath Ghosh, Convenor of the event briefed about the Summit. He informed that in view of the India's 2 Billion Dollar Hydrogen Economy Commitment, the summit is being organized by Indian Institute of Petroleum and Energy to provide in depth exposure on **Hydrogen Energy: Production-Storage-Transport and Policy**. He emphasised that the

summit shall be providing a deeper knowledge, covering diverse aspects of Hydrogen Energy to the participants from Industries, academia and government officials. The program is highly relevant for the officials in the related domain and industry professionals. The program will have technical sessions on Hydrogen Production, Storage, Transportation, Utilization and Policy. The summit shall be chartering the definition of Hydrogen Economy by deploying and identifying the R&D criticalities in the form of a WHITE-PAPER.

He intimated that the Key Objectives of this Summit are:

1. **Advancing Hydrogen Technologies:** Presenting and discussing cutting-edge research, innovations, and technological breakthroughs in hydrogen production, storage and utilization.
2. **Networking and Collaboration:** Facilitating interactions between academia, industry, and government bodies to foster partnership and collaborations that can accelerate the deployment of Hydrogen Technologies.
3. **Policy and Market Frameworks:** Addressing policy challenges and identifying opportunities to create supportive regulatory environments and market incentives for hydrogen adoption.
4. **Sustainable Development:** Highlighting the role of Hydrogen as a clean and sustainable energy carrier, helping to reduce greenhouse gas emissions and combat climate change.
5. **Public Awareness:** Increasing public awareness and understanding of Hydrogen Energy's potential, benefits, and its role in the transition to a low-carbon energy future.

Prof. G.K. Surya Prakash addressed the participants and informed that 38 billion Tons of CO₂ is being pumped into the atmosphere by the anthropogenic processes causing to acidification of oceans, global warming and Ice melting. He emphasised that Hydrogenization is important but decarbonisation is equally important to save the Planet and economic growth. He intimated that the Hydrogen transport, distribution and storage have huge challenges. He suggested that emphasis is to be given on methanol conversion using Hydrogen and CO₂. He defined that the fossil fuel as fossilised sunshine.

Dr. M. Kamalakar Babu spoke on the occasion and informed that the Govt. of Andhra Pradesh formulated the Green Hydrogen Policy in June, 2023 and committed to transform the Visakhapatnam into a Hydrogen City with IIFE Visakhapatnam playing a lead role.

Shri Pankaj Jain, Secretary, MoP&NG GoI, as Chief Guest, addressed the participants and informed that Hydrogen is used as Aviation Fuel before World War-II. At present, India's energy usage $1/3^{\text{rd}}$ of global average but increasing to 3-times of world average. He has informed that it is envisaged to generate 25 MMT of the Hydrogen Energy by 2050 of which 75% from electrolyses and 30% from coal and Natural Gas. He emphasised on the regulations, infrastructure, trade rules across various Nations need to be formulated for successful Hydrogen Economy. In addition, technological transfer, risk mitigation, multi-institutional engagement and interoperable standards are to be evolved. He said that intellectual capital and location advantage will keep IIFE as a primary academic and research Institute in Energy Sector and Vizag can be a production cluster for Hydrogen Energy.

Prof. Roshan Kumar Singh, Organising Secretary thanked Guests and all the participants. He expressed the gratitude for all sponsors. He has informed that the event is sponsored by the SBI, DST-SERB, NTPC, Oil India Limited, GAIL, CSIR, CSIR-CIMFR, CSIR-NIO, APSPCL, NREDCAP, PMT Infrascience, AVENTECH Engineering Consortium Pvt. Ltd and AIMIL Instrumentation and Technology.

The inaugural program ended with the National Anthem.
