



## HYDROGEN ENERGY RESOURCE & OPPORTUNITY (HERO-2023)

### MINUTE TO MINUTE PROGRAMME

First Day   Monday, 24 <sup>th</sup> July 2023	
09:00 hrs	Registration
10:30 hrs	Arrival of <b>VVIPs</b> at Summit Hall
10:32 hrs	Welcome of the Guests onto the Dais
10:32 – 10:34 hrs	Lighting of Lamp
10:34 – 10:40 hrs	Welcome Address by <b>Prof. Shalivahan</b> , Director, Indian Institute of Petroleum and Energy (IIPE), Visakhapatnam
10:40 – 10:43 hrs	Introduction of the Event by <b>Prof. Somnath Ghosh</b> , Convenor
10:43 – 10:45 hrs	Introduction of Special Guest <b>Prof. G. K. Surya Prakash</b> , George A. and Judith A. Olah Nobel Laureate Chair in Hydrocarbon Chemistry, Department of Chemistry, University of Southern California, California, USA by Prof. Somnath Ghosh, Convenor
10:45 – 10:55 hrs	Address by <b>Prof. G. K. Surya Prakash</b> , George A. and Judith A. Olah Nobel Laureate Chair in Hydrocarbon Chemistry, Department of Chemistry, University of Southern California, California, USA
10:55 – 10:57 hrs	Introduction of Special Guest <b>Shri K. Vijayanand</b> , Special Chief Secretary, Energy, Government of Andhra Pradesh, by Prof. Seshagiri Rao, DoFA, IIPE
10:57 – 11.05 hrs	Address by <b>Shri K. Vijayanand</b> , Special Chief Secretary, Energy, Government of Andhra Pradesh
11:05 – 11.07 hrs	Introduction of Guest of Honour <b>Dr. K. S. Jawahar Reddy</b> , Chief Secretary, Government of Andhra Pradesh, by Prof. K. Vijaya Kumar, Dean (R&D), IIPE
11:07 – 11:15 hrs	Address by <b>Dr. K. S. Jawahar Reddy</b> , Chief Secretary, Government of Andhra Pradesh
11:15 – 11:17 hrs	Introduction of Chief Guest <b>Shri Pankaj Jain</b> , Secretary, Ministry of Petroleum and Natural Gas, Govt. of India, by Director, IIPE
11:17 – 11:30 hrs	Keynote address by Chief Guest <b>Shri Pankaj Jain</b> , Secretary, Ministry of Petroleum and Natural Gas, Govt. of India.
11:30 – 11:40 hrs	Felicitation of the <b>VVIPs</b>
11:40 – 11:45 hrs	Vote of thanks by <b>Prof. Roshan K. Singh</b> , Organising Secretary
11:45 hrs	National Anthem
11:46 – 12:00 hrs	<b>Tea Break</b>
<b>Session – I: Hydrogen Economy: Promise and Challenges in Value-Chain Implementation</b>	
12:00 – 12:30 hrs	<b>Shri Ujjwal Kanti Bhattacharya</b> Director (Projects), National Thermal Power Corporation (NTPC) Limited
12:30 – 13:00 hrs	<b>Prof. R. R. Sonde</b> Indian Institute of Technology Delhi
13:00 – 14:00 hrs	<b>Lunch Break</b>
<b>Session – II: Hydrogen Generation: Possibilities and Criticalities</b>	
14:00 – 14:30 hrs	<b>Prof. K. Srinivas Reddy</b> Professor, Department of Mechanical Energy, Indian Institute of Technology Madras



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14:30 – 15:00 hrs	<b>Prof. Sudarshan Neogi</b> Professor, Department of Chemical Engineering, Indian Institute of Technology Kharagpur
15:00 – 15:30 hrs	<b>Prof. Joydeep Dutta</b> Professor, Department of Applied Physics, School of Engineering Sciences, KTH Royal Institute of Technology, Sweden
15:30 – 16:00 hrs	<b>Tea Break</b>
16:00 – 17:00 hrs	<b>Panel Discussion: R&amp;D Ecosystem of Hydrogen Technology</b>  Prof. K Srinivas Reddy, IIT Madras  Prof. Swati Neogi, IIT Kharagpur  Kiran Alla, Plug Power USA  Dr Kamalakar Babu, MD & CEO, AP Power Solar Corporation Ltd.  Dr Prahlad Ram, DST, GoI
19:00 hrs onwards	<b>Gala Dinner</b>
<b>Second Day   Tuesday, 25<sup>th</sup> July 2023</b>	
<b>Session – I: Hydrogen Storage: Possibilities and Criticalities</b>	
09:30 – 10:00 hrs	<b>Prof. G. K. Surya Prakash</b> George A. and Judith A. Olah Nobel Laureate Chair in Hydrocarbon Chemistry, Department of Chemistry, University of Southern California, California, USA
10:00 – 10:30 hrs	<b>Prof. Swati Neogi</b> Professor, Department of Chemical Engineering, Indian Institute of Technology Kharagpur
10:30 – 11:00 hrs	<b>Prof. Alok Srivastav</b> Professor, Panjab University Consultant to Texel Energy Storage, Gothenburg, Sweden
11:00 – 11:30 hrs	<b>Tea Break</b>
<b>Session – II: Hydrogen Storage: Possibilities and Criticalities</b>	
11:30 – 12:00 hrs	<b>Prof. Ponisseril Somasundaran</b> LaVon Duddleson Krumb Professor of Mineral Engineering, Columbia University, New York USA
12:00 – 12:30 hrs	<b>Prof. Devinder Mahajan</b> Professor of Chemical & Molecular Engineering Stony Brook University, USA
12:30 – 13:00 hrs	<b>Dr. Vijayragavan Srinivasan</b> SE, Consolidated Edison, USA
13:00 – 14:00 hrs	<b>Lunch Break</b>
<b>Session – III: Hydrogen Transport: Possibilities and Criticalities</b>	



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14:00 – 14:30 hrs	<b>Dr. Todd Deutsch</b> Coordinator, HyBlend CRADA, National Renewable Energy Laboratory Golden, Colorado, USA
14:30 – 15:00 hrs	<b>Dr. Sankararao Mutyala</b> Co-Founder, Director Nanosol Energy Pvt. Ltd., Hyderabad
15:00 – 15:30 hrs	<b>Prof. A.K. Mishra</b> Director, CSIR-CIMFR
15:30 – 16:00 hrs	<b>Mr. Pankaj Goswami</b> Director (Operations), Oil India Limited, India
16:00 – 16:30 hrs	<b>Tea Break</b>
16:30 – 17:30 hrs	<b>Panel Discussion: Codes, Standards and Regulations</b> Dr. Sankararao Mutyala, Nanosol Energy Pvt. Ltd., Hyderabad, India Dr. Vijayragavan Srinivasan, SE, Consolidated Edison, USA Prof. Devinder Mahajan, Stony Brook University, USA
<b>Third day   Wednesday, 26<sup>th</sup> July 2023</b>	
<b>Session – I: Hydrogen Utility and Economy: Possibilities and Criticalities</b>	
09:30 – 09:55 hrs	<b>Shri Siddharth R. Mayur</b> Founder President & CEO, h2e Power, Pune, India
09:55 – 10:20 hrs	<b>Dr. Nageswara Rao Peela</b> Associate Professor Department of Chemical Engineering, IIT Guwahati
10:20 – 10:45 hrs	<b>Shri Jeyamani M Doss</b> Executive, Gas Turbine Engineering and Sciences, GE Power, India
10:45 – 11:00 hrs	<b>Tea Break</b>
<b>Session – II: Hydrogen Utility and Economy: Possibilities and Criticalities</b>	
11:00 – 11:30 hrs	<b>Shri Amar Nath</b> Additional Secretary, DoPT, Government of India
11:30 – 12:00 hrs	<b>Shri Pradheep Kileti</b> Director, Future of Heat National Grid, Melville, New York, USA
12:00 – 12:30 hrs	<b>Mr. Kiran Kumar Alla</b> Senior Director, Plug Power, USA
12:30 – 13:00 hrs	<b>Valedictory Session</b>



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	<i>Release of White Paper on "<b>Hydrogen Economy in India</b>" by IIPE, based on the conference</i>
13:00 – 14:00 hrs	<b>Lunch Break</b>
14:00 hrs	<b>Field Visit to NTPC Simhadri Desalination Unit</b>

