



Symposium on

Energy Transition – Concepts, Opportunities & Challenge

Registration for symposium is free. Visit <https://event.iitg.ac.in/asmda> for registration



9:00 AM, 21 November, 2022



Seminar Hall, Dept. of Chemical Engg.

Summary

There is growing recognition that a new energy paradigm is needed to curb the build-up of anthropogenic CO₂ emissions in the atmosphere and the corresponding global warming-related impacts. Many countries and companies are embarking on ambitious programs to reduce their carbon footprint and switch from carbon-intensive fossil fuels to sustainable greener energy feedstock and carriers.

This symposium is designed to inform professionals in energy industries and students about the impending energy transition and help them gain an understanding of the relevant concepts/technologies, opportunities, and challenges. Specifically, the symposium will examine:

- New energy economy: energy-climate nexus, decarbonization pathways (including usage of hydrogen) to decelerate the pace of global warming from CO₂ emissions.
- Decarbonization Pathways: Solar, wind, biomass, green hydrogen, green ammonia, hydropower, pumped storage.
- Carbon Capture and Sequestration (CCS): the capture of CO₂ from large stationary sources combined with geological storage, that has emerged as an attractive option for emissions reduction.
- Hydrogen underground storage (HUS): viewed as an effective strategy for storing large volumes of surplus electrical energy from renewable sources.
- Environmental, social and governance (ESG) reporting: evaluation of a company's performance across a holistic and sustainable set of non-financial measures.

Schedule

09:00 – 09:15 Inauguration of Symposium

09:15 – 10:00 Energy climate nexus
(Dr. Srikanta Mishra, Battelle, USA)

10:00 – 10:45 Decarbonization pathways
(Mr. Baroruchi Mishra, Shell India)

10:45 – 11:30 Break

11:30 – 12:15 India's chosen Low-Carbon pathways
(Dr. Rafiq Awal, Yosef Geo Energy Pvt. Ltd.)

12:15 – 13:00 Geological CO₂ storage
(Dr. Srikanta Mishra, Battelle, USA)

13:00 – 14:00 Lunch

14:00 – 14:45 Hydrogen underground storage
(Dr. Srikanta Mishra, Battelle, USA)

14:45 – 15:30 Environmental, social & governance (ESG) issues with Energy Transition
(Dr. Farrukh Khalid, IIT Guwahati)

15:30 – 16:00 Break

16:00 – 16:45 Panel discussion

16:45 – 17:00 Vote of thanks

Visit: <https://event.iitg.ac.in/asmda/> for more details