



ICC Webinar Series

Indian Cryogenics Council



Hydrogen - Future source of Energy

Saturday, 18th September 2021, 4:00 PM to 6:00PM

Hydrogen is the most abundant and lightest element in the universe and has the highest energy content of common fuels by weight ; about three times more than diesel, natural gas or bioethanol. It is also extremely versatile energy source: it can be transformed into electricity, used as a fuel for transportation, heating and cooling. However due to current high cost, it is mainly used in industrial applications for its chemical value.

Hydrogen has long been the 'fuel of the future', as it eliminates all harmful emissions including CO₂; but has to-date never quite made it as a major element in the energy system. Today, a number of key developments in production of green Hydrogen and efficient fuel cells, suggest, that the time for a substantial role for hydrogen in the energy system has come. Large-scale production of hydrogen and use of fuel cells in mobility are changing the equation very fast. Many leading countries and organisations are drafting Hydrogen policies to achieve climate-neutral and sustainable energy usage including heavy duty transportation, by 2050.



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Highlights

- ❖ Hydrogen Economy developments
- ❖ Global efforts towards Hydrogen as future energy source
- ❖ Hydrogen fuelled heavy duty transportation
- ❖ Relevance of Hydrogen energy for India

Who can participate

- Industry personnel: Associated with Hydrogen energy economy
- Policy makers in Government and Industry
- Research Organizations: ISRO, DAE, DRDO, MeitY, CSIR etc.
- Academic Institutes: IISc, IITs, NITs, IISER, C-DAC, Universities.
- Research Scholars, Students working on hydrogen energy, Fuel cell etc.

Webinar Speakers



Dr. Casimir Van Doome
Sr. Researcher Liquid Hydrogen
Shipping and storage
SHELL Netherland

Global developments towards Hydrogen as future energy source



Prof. Dr. Christian Mohrdieck
Managing Director
Cellcentric
A Daimler Truck and Volvo Group Company

Developments in use of Hydrogen for transport applications



Mr. Anurag Pandey
R&D lead
Hydrogen Economy
Reliance Industries Limited

Indian perspective on Hydrogen as future fuel

ICC Webinar Committee



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