

## SEMINAR VENUE

The Seminar will be held at Indian Institute of Technology, Delhi situated in Hauz Khas in South Delhi. The IITD campus, covering an area of 320 acres, is imaginatively laid out with a picturesque landscape with numerous buildings of various nature and stature, presenting a spectacle of harmony in architecture and natural beauty.

## ACCOMMODATION

Delegates are requested to make their own boarding and lodging arrangements.

## THE CITY

New Delhi, the capital city of India is a fusion of the ancient and the modern culture. Standing along the west end of the Gangetic Plain, the capital city unwinds a picture rich with culture, architecture and human diversity seeped in history. The monuments, museums, galleries, gardens and cultural centres symbolize its glory. Old Delhi takes one through the labyrinth streets with a formidable mosque, forts and monuments, whereas New Delhi has a mesmerizing charm with spacious avenues under the shade of beautifully lined trees and imposing government buildings. Excursions of interest are possible to Agra, the city of Taj Mahal and Jaipur, the Pink city.

New Delhi is personified by its hospitable people famous for their spirit of service. It is a shopper's paradise with shopping malls and emporia from various states offering artistic handicraft at affordable prices.

The climate in Delhi during June is hot with day temperature ranging between 35 and 40 degree Celsius.

## ADDRESS FOR CORRESPONDENCE

Organizing Secretary

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## FIRST ANNOUNCEMENT



# SEMINAR ON PRODUCTION AND USE OF GREEN HYDROGEN AND GREEN AMMONIA IN PROCESS INDUSTRY

24<sup>TH</sup> - 25<sup>TH</sup> JUNE, 2022  
NEW DELHI

ORGANISED BY  
INDIAN INSTITUTE OF CHEMICAL ENGINEERS  
(NORTHERN REGIONAL CENTRE)

&  
DEPARTMENT OF CHEMICAL ENGINEERING, IIT DELHI

IN ASSOCIATION WITH  
FERTILISER ASSOCIATION OF INDIA, DELHI

The Hon'ble Prime Minister of India, Shri Narendra Modi, launched the Hydrogen Mission on 15<sup>th</sup> August, 2021 and Govt. of India notified the Green Hydrogen Policy on 17<sup>th</sup> February 2022. It is an important initiative which will promote clean energy and environment protection by reducing dependence on fossil fuels and thereby make India 'Energy Self-reliant' by 2047. At COP-26 in Glasgow, UK, India has also committed to achieve net zero emission by 2070. The country has already made massive progress in installation of capacity of green electricity generation of more than 100 GW. In addition to use of green electricity as substitute to coal based electricity, it can also be used to generate green hydrogen and then green ammonia, especially at locations where green electricity cannot easily be transmitted. Introduction and adoption of technology to tap into the green hydrogen's potential will play a key role in securing a clean and affordable energy future in India.

Refineries and fertilizer manufacture account for major part of generation and use of hydrogen in the industry. Refineries utilize hydrogen for desulphurisation and upgradation of heavy fraction of crude. All fertilizers containing nitrogen nutrient are produced from ammonia which can be substituted with green ammonia i.e. produced from green hydrogen. Refineries and fertilizer units use annually 2.8 million metric tonnes and 3.0 million metric tonnes of hydrogen respectively which is produced from natural gas or liquid hydrocarbons.

Indian Institute of Chemical Engineers is the apex professional society of Chemical Engineers in India, popularly abbreviated as IChE. The IChE is a confluence of streams of professionals from academia, research institutes and industry. It provides them the appropriate forum for joint endeavours, hand in hand, to work for human well-being through application of chemical engineering and allied sciences. IChE has more than 55 regional centres operating in the country. The Northern Regional Centre covers the territorial limits of towns around Delhi like Faridabad, Ghaziabad, Gurugram, Noida, Aligarh, Panipat and Sonapat. The centre is abbreviated as IChE-NRC.

It is our pleasure to inform you that the year 2022 is the Platinum Jubilee Year of Indian Institute of Chemical Engineers (IChE) ever since its

establishment in 1947. To celebrate the year in a befitting manner the IChE-NRC is organising a two-day seminar on "Production and Use of Green Hydrogen and Green Ammonia in Process Industry" in association with Department of Chemical Engineering, Indian Institute of Technology Delhi and Fertiliser Association of India, New Delhi. The Department of Chemical Engineering, IIT Delhi would be the key coordinator of the activities of this gala event.

The seminar will be organized via hybrid mode (virtual and offline) on 24<sup>th</sup> - 25<sup>th</sup> June 2022.

It is envisaged that the prestigious event would be inaugurated by a high dignitary from Govt. of India. The event would be inviting students, delegates, eminent speakers in the field of Sustainable Energy from India and abroad.

The event will provide a platform to the delegates from process industries, R&D organisations, consultancy firms and educational institutions to share their new research ideas and technical developments, leading to upgradation of their professional skills and harnessing knowledge in the area of Green Energy.

## TECHNICAL SESSIONS

The Seminar is being organized to take stock of technological developments for production and use of green hydrogen in process industry. Academia, user industry and technology companies will be invited to make presentation. The sessions will be organised in the following areas :

1. **Production Technologies for Green Hydrogen/Green Ammonia**
2. **Storage and Transportation of Hydrogen**
3. **Safety in Hydrogen Value Chain**
4. **Techno-Economic Considerations in Use of Green Hydrogen/Ammonia**
5. **Recent Policy Initiatives for Promotion of Production and Use of Green Hydrogen : Panel Discussion**