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Jack A. Gerster Memorial Lecture

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Director**ROLE OF CLEAN
HYDROGEN IN INDIA'S
ENERGY TRANSITION —
OPPORTUNITIES AND
CHALLENGES**

India became a signatory to the historic Paris agreement in 2021 by announcing five important commitments to climate action. Recognizing the role of clean hydrogen in India's energy transition, the Prime Minister also announced the creation of India's National Green Hydrogen Mission (NGHM) in the same year. The NGHM aims to accelerate the creation of end-to-end hydrogen ecosystem in the country, with particular emphasis on hydrogen production, manufacturing of plant and machinery to produce clean hydrogen and enable exports through bilateral arrangements. Additionally, the mission also focuses on stimulating the innovation ecosystem and creation of several enabling platforms and tools to help the adoption of clean hydrogen use cases. In this talk, I will summarise the efforts made by R&D organizations such as CSIR to develop technologies across the hydrogen value chain and take them closer to commercialization in partnership with industry partners through pilot projects and creation of hydrogen valleys.