

# THE ROLE OF HYDROGEN IN THE ENERGY SYSTEM DECARBONIZATION

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PM**



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## About the Speaker:

Dr. Anusha Wijewardane has received B.Sc. (Hons.) degree in Mechanical Engineering in 2007 from University of Moratuwa, Moratuwa, Sri Lanka in Sri Lanka and Ph.D. in Aeronautical and Automotive Engineering from Loughborough University, United Kingdom in 2012. She worked as a Postgraduate Researcher at the Loughborough University from 2012-2013. Dr. Anusha working as Faculty of Mechanical Engineering in University of Moratuwa, Sri Lanka having main research interests include Heating Ventilation and Air Conditioning, Thermal Management of Energy Systems, Heat Transfer, Automobile, Hydrogen and Renewable Energy.

## Abstract of the talk:

Hydrogen has gained increasing prominence worldwide as an 'energy vector', which can be used to decarbonize the energy system and contribute towards the transition to a Net Zero economy. Hydrogen has a valuable and essential role in the net zero transition by providing flexibility across the energy system. However, as the successful scaling up of low-carbon hydrogen production and end uses poses many challenges and is dependent on decisions made in other parts of the energy system, a pragmatic and carefully managed delivery is vital to achieve emission reductions and reap the benefits that hydrogen can provide.

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