

Department of Chemical Engineering, IIT Hyderabad
CH5036-Industry Lecture Series
Jan-May 2025



Date: 19-03-2025

Time: 04:00 PM (IST)

Speaker: **Arun Venkiteswaran**

Affiliation: Reliance Industries Ltd.

Title: Hydrogen Powertrain: Advancing Sustainable Mobility through Innovation

Abstract

Reliance is leader in New Energy Technology. In leading the world of decarbonization, Reliance plays a vital role in developing clean and efficient technologies that includes Solar, Battery, Fuel cell and H2-ICE. This talk would give an overview of all clean technologies that we are developing at Reliance with special mention about the key challenges and how we are overcoming those challenges to be market leader. Fuel cell, Battery, H2-ICE and Alternate low C fuel technologies would be discussed in detail during this session.

Biography

Arun Venkiteswaran is IITM Chemical Engineering Alumnus (2001). He currently leads Thermal management and Multi-physics Simulation team in New Mobility / New Energy team in Reliance Industries. Mobility team works on H2-ICE and ALT fuel ICE, Fuel cells and Battery as a service (BaaS) for 2/3 wheelers. Having around 22 years of Industrial experience working with automotive and energy sector, he has diverse green technology experience (Fuel cell, Battery and H2-ICE). He is Six sigma certified professional and leads the cross functional team that evaluate alternate Technologies for mobility applications that ranges from 2/3 wheelers to Heavy duty trucks. Prior to Reliance, Arun was leading EV CoE team in Tata Consultancy Services. Arun served Delphi Technologies as innovation change leader and Principle Engineer over 14 years and was instrumental in developing India Center into a Center of Excellence in Design and Simulation for Diesel, Gasoline and HEV. He was honored “Glen d Hall Award” by Delphi US Powertrain president during his tenure for his contributions to Innovation

mentorship. He has many patents in Thermal management of Fuel cell systems. Arun had initial years of experience in software development for complex flow simulation for diverse Engineering application, after Masters from IITM in Chemical Engineering.