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Disruptive potential of fuel cell technology in transportation sector in India

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WRI India Delhi

Speaker:
Prof Prakash Chandra Ghosh
Department of Energy Science and Engineering, IIT Bombay

Moderator:
Shravani Sharma
WRI India

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Disruptive Potential of Fuel Cell Technology in the Indian Transportation Sector

Recent growth in EV adoption has raised the question of how EVs affect the current ecosystem – including the market, R&D, policies, etc. – and discussion around “Disruptive Technologies”. A disruptive technology is one that displaces an established technology and shakes up the industry, or a ground-breaking product that creates a completely new industry. What are these new forms of disruptive technology in India, and what should we know about them right now?

In this webinar, **Prof. Prakash Ghosh** from Indian Institute of Technology, Bombay, India, will address the following points:

- What is the current status and understanding of fuel cell technology for transport sector in India?
- What are the fuel options for fuel cell vehicles in India?
- What are the potential challenges of hydrogen and fuel cell technology?
- What are the techno-economic challenges in the commercialization of fuel cell technology?
- What is the potential of early adoption of fuel cell technology by different vehicle segments, specifically for India?

The session is for 1 hour and will be followed by Q&A.

Speaker: Dr. Prakash C Ghosh, Professor, Department of Energy Science and Engineering, Indian Institute of Technology, Bombay

Dr. Ghosh received his doctoral degree in Mechanical Engineering from RWTH Aachen, Germany. He is the recipient of BOYSCAST fellowship from DST, Govt. of India and ERASMUS MUNDUS fellowship from

European Union. Dr. Ghosh has worked as a guest scientist in Forschungszentrum Juelich, Germany from 2002 to 2004. He worked in National Chemical Laboratory, Pune, India as a scientist from 2004 to 2006. Dr. Ghosh's research interests include low temperature fuel cells which include designing, modelling, fabrication and characterization of PEFC and HT-PEFC stacks. In addition to these he is also involved in solar hydrogen research and energy storage. Dr. Ghosh has more than fifty International Journal papers in the field of solar energy, fuel cells and hydrogen energy. He has also five awarded international patent and four filed patents in his name. He has participated in several National as well as International projects with several countries such as the United Kingdom, Canada, Australia and USA in the capacity of Principal Investigator and Co-Principal Investigator. Dr Ghosh has secured funding (>35 crore) as PI and Co-PI from DST: (i) relating to microgrid and energy storage (DST/RCUK/SEGES/2012/13); (ii) relating to modelling of Bio-CPV system (DST/SEED /INDO-UK/002/2011/IITB); and (iii) Indo-Us Joint project on solar energy. At present he is leading two Indo-UK projects (IMASE and IUCERCE) in the field of micro-grid and energy storage in the capacity of PI, funded by Department of Science and Technology, Ministry of Science and Technology, Govt. of India. Dr. Ghosh has organised an International conference in the field of Energy and Indo-Canada workshop related to energy.

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