



ELECTRIC  
MOBILITY  
FORUM



## UNDERSTANDING BATTERIES FOR ELECTRIC VEHICLES (EVs) Technology and Performance Aspects

WRI INDIA  
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SUSTAINABLE ENERGY  
FOUNDATION

### Understanding Batteries for Electric Vehicles (EV): Technology and Performance Aspects

To encourage mass adoption of electric mobility in Indian cities and see the expected positive impacts, it is very important to understand the right kind of technology for electric vehicle batteries. Batteries are the “heart” of these vehicles.

The general public has a lot of questions and anxieties that keep them from fully trusting this technology, as consumers and responsible citizens of this country. Despite reading and hearing many things regarding the batteries, many of us remain unfamiliar or uninformed about this topic. Hence, let’s start afresh and learn everything that we need to know about batteries for electric vehicles.

In this webinar, **Dr. Parveen Kumar** from WRI India will throw light on key elements of this topic and address some of the myths, anxieties and confusion related to batteries.

#### Key areas of discussion will include:

- Which is the most preferred type of battery for electric vehicles?
- Why are these batteries the most preferred choice for EV applications?
- How safe are these batteries?
- What is the future of these batteries for EV applications?
- What are the environmental impacts of the preferred batteries?

This 1-hour session will include a presentation followed by Q&A.

#### Speaker

Dr. Parveen Kumar is a senior manager at WRI India under Cities and Transport program. He is associated

with the Electric Vehicle (EV) program at WRI India and involved in the technology and policy aspects of the EV projects at Trivandrum, Kochi, Bangalore, Delhi and Ahmedabad.

He has previously worked at the Indian Institute of Science, Bangalore and has received a Ph. D. from JMI, New Delhi. He has more than 12 years of post-PhD experience in the area related to the clean technologies which include Energy Storage, Electric Vehicles, Solar Energy and Rare Earths. His research interest includes computer simulation studies for battery materials and techno-economics analysis for selected clean technologies. He has worked in the solar energy domain, leading SEI (Solar Energy Integration) thrust of the SERIUS (Solar Energy Research Institute for India and United States) project and worked on various policy and technology needs assessment. He was a member of Electrotechnology sectional committee (ETD-51) for standardization of charging infrastructure, Bureau of Indian Standards (BIS) (2017-2018); Invitee in NITI Aayog's committee on Rare Earths (2016-2017); Life member of Chemical Research of Society of India (CRSI); Review editor of Frontiers in Energy Research. He has published several peer-reviewed papers in reputed international journals and conferences and has also published a book chapter, reports and articles in the leading magazines.

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