

Pune Knowledge Cluster  
In association with  
PES-IAS Chapter IEEE Pune Section &  
PES India Chapters Council

## NATIONAL SCIENCE DAY PROGRAM

# ELECTRIC & SUSTAINABLE MOBILITY

A sustainable transportation system is the need of the hour and it needs to be identified, discussed, popularised, and practised.

Government policies and mandates have resulted in increased adoption of Electric Vehicles (EV) as the future of transportation.

In this context, an expert session is being arranged to deliberate and enlist the best practises being followed by different key players working in the field of sustainable electric mobility. The program on the occasion of National Science Day aims to create awareness about Electric Vehicles and Ecosystems.



**DATE :**  
26TH FEBRUARY 2022

**TIME :**  
11 AM TO 12.30 PM

**JOIN ON :**  
 zoom

### OUR SPEAKERS



**DR. RAHUL WALAWALKAR**  
Founder & President, India Energy Storage Alliance (IESA)  
President & MD, Customized Energy Solutions India Ltd.



**DR. SUSHIL RAMDASI**  
Deputy Director, Powertrain Engineering Laboratory  
Automotive Research Association of India (ARAI)



**MR. MANOJ KUMAR DANIEL**  
Deputy General Manager,  
Maha-Metro Rail Corporation Limited Pune

### EVENT MODERATOR



**MS. RASHMI URDHWARESHE**  
Senior Advisor,  
Pune Knowledge Cluster

### EVENT CONVENORS



**DR. SUREKHA DESHMUKH**  
Chair,  
PES India Chapters Council

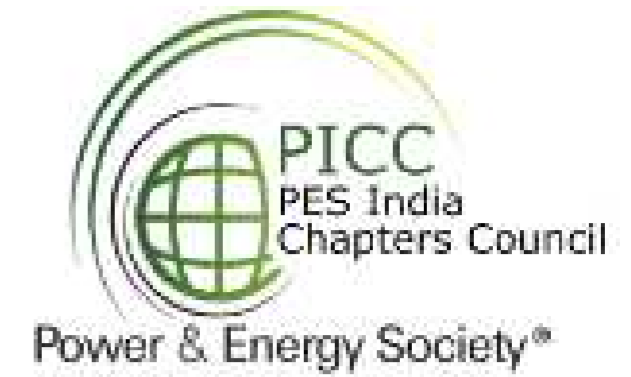
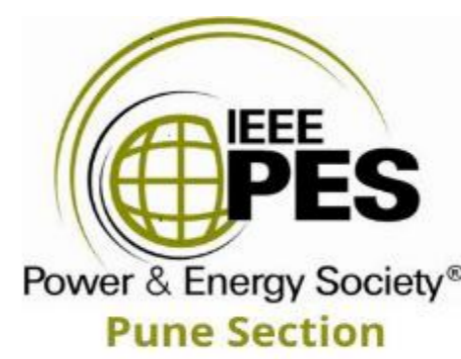
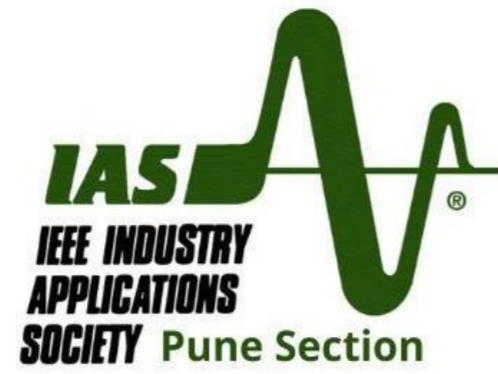


**DR. MANDAR BHAWALKAR**  
Chair,  
IEEE PES-IAS Chapter

FOR REGISTRATION:  
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FOR MORE INFORMATION VISIT:  
[www.pkc.org.in](http://www.pkc.org.in)







*Pune Knowledge Cluster,  
PES-IAS Chapter IEEE Pune Section and PES India Chapters Council  
Present*

**National Science Day Program:  
Electric and Sustainable Mobility**

<b>Organized By</b>	Pune Knowledge Cluster in association with PES-IAS Chapter IEEE Pune Section and PES India Chapters Council
<b>Date</b>	26 <sup>th</sup> February 2022
<b>Time</b>	11 am to 12.30 pm
<b>Location</b>	Online Meeting – Joining Link - <a href="https://us06web.zoom.us/j/89943746113?pwd=MzqvUTdnVUqzbFo4TGIMbIBBV1I1dz09">https://us06web.zoom.us/j/89943746113?pwd=MzqvUTdnVUqzbFo4TGIMbIBBV1I1dz09</a>
<b>Description</b>	<p>Vulnerability and disruption in the supply of fossil fuels, ever-increasing cost and a limited stockpile of commercial fuels will require radical changes in personal and public transport systems in the near future. Therefore, sustainable transportation systems need to be identified, discussed, popularised, and practiced.</p> <p>Government policies and mandates, low carbon emission, environmental benefits, advancement in technology, subsidies, and tax rebates have resulted in increased adoption of Electric Vehicles (EV) as the future of transportation. Mass adoption of EVs has many-fold impacts on the electric grid and supporting ecosystems. The increased number of EVs and other reliable transportation options bring in new challenges for the energy sector. Maintaining a balance between different ecosystems is therefore imperative.</p> <p>The extent of the impact on the ecosystem and electric grids depends on country-specific EV road map, policies to adopt EV, and other solutions showing commitment towards green energy. The challenges faced across the globe are not unique, and it is possible to learn from earlier experiences of policymakers, industry, academia, utilities, and NGOs to further strengthen the confidence level of all stakeholders. In this context, an expert session is being arranged, on the occasion of National Science Day, to deliberate and enlist the best practices being followed by different key players working in the field of sustainable electric mobility.</p>
<b>Who should attend?</b>	The program is designed to create awareness about Electric Vehicles and Ecosystems. The program will be beneficial for researchers, academicians, and UG and PG students. Research scholars can get insight and guidelines for future projects. Members of the public will also find the program interesting and informative.

<b>Speakers</b>	<ul style="list-style-type: none"> <li>• Dr. Rahul Walawalkar, Founder and President of India Energy Storage Alliance (IESA), President and MD of Customized Energy Solutions India Ltd.</li> <li>• Dr. Sushil Ramdasi, Deputy Director, Powertrain Engineering Laboratory, Automotive Research Association of India (ARAI)</li> <li>• Mr. Manoj Kumar Daniel, Deputy General Manager, Maha-Metro Rail Corporation Limited, Pune</li> </ul>
<b>Enrollment Details</b>	Interested participants can register on the link - <a href="https://forms.gle/qdaVbzNwDPDoHg5W9">https://forms.gle/qdaVbzNwDPDoHg5W9</a>
<b>Contact information</b>	<ul style="list-style-type: none"> <li>• Dr. Shilpa Jain, Program Manager, Pune Knowledge Cluster (PKC), <a href="mailto:capacitybuilding@pkc.org.in">capacitybuilding@pkc.org.in</a></li> <li>• Dr. Mandar Bhawalkar, Chair IEEE PES-IAS Chapter, <a href="mailto:mandar_bhawalkar@yahoo.co.in">mandar_bhawalkar@yahoo.co.in</a></li> <li>• Dr. Surekha Deshmukh, Chair PES India Chapters Council, <a href="mailto:d_surekha@hotmail.com">d_surekha@hotmail.com</a></li> </ul>

## Speaker Profiles –

<b>Profile of the Speakers and Talk Titles</b>	
	<p><b>Dr. Rahul Walawalkar</b>            Founder and President of India Energy Storage Alliance (IESA),            President and MD of Customized Energy Solutions India Ltd.</p> <p><b>Energy Storage and Challenges of EV Integration and Solutions</b></p>
	<p><b>Dr. Sushil Ramdasi</b>            Deputy Director, Powertrain Engineering Laboratory,            Automotive Research Association of India (ARAI)</p> <p><b>Electric Vehicle Powertrain and Vehicle Dynamics</b></p>
	<p><b>Mr. Manoj Kumar Daniel</b>            Deputy General Manager, Maha-Metro Rail Corporation Limited, Pune</p> <p><b>Sustainable Electric Mobility</b></p>
<b>Profile of the Moderator for the Event</b>	
	<p><b>Ms. Rashmi Urdhwareshe</b>            Senior Advisor, Pune Knowledge Cluster            President SAEINDIA; Ex-Director, ARAI, Pune</p>

## Conveners for the Event



**Dr Surekha Deshmukh**  
Chair- IEEE PES India Chapters Council



**Dr. Mandar Bhawalkar**  
Chair PES-IAS Chapter IEEE Pune Section

### About the Organizers -

	<p><b>The Pune Knowledge Cluster (PKC)</b> has been established by the Office of the Principal Scientific Adviser to the Government of India. The aim is to bring together academia, R&amp;D institutions, and the industry of Pune and its surrounding areas, to address the challenging problems of the region through innovative means, using scientific knowledge and engaging highly skilled human resources. Furthermore, PKC aims to foster capacity building and promote skills development and entrepreneurship among the students and professionals of the city. All relevant organizations and experts will be partners and consulted to identify sustainable solutions to the problems of the city and improve its liveability and prosperity.</p> <p>While the PKC is administered by the Inter-University Centre for Astronomy and Astrophysics (IUCAA), it is a project of and for the whole city. In the initial phase, PKC would focus on air, water, health, and sustainable mobility.</p> <p>For more information, visit: <a href="https://www.pkc.org.in/">https://www.pkc.org.in/</a></p>
	<p><b>IEEE</b> is an association dedicated to advancing innovation and technological excellence for the benefit of humanity. IEEE is the world's largest technical professional society. It is designed to serve professionals involved in the electrical and electronics field. IEEE inspires a global community through its highly cited publications, conferences, technology standards, and professional and educational activities</p> <p>IEEE Pune Section was established in 2010 with terrestrial boundaries confined to Pune Metropolitan City. At present, the Pune section is a medium-size section based on membership growth.</p> <p>PES-IAS joint chapter at Pune Section was established in 2003 and attached to Pune section in 2010. The chapter involves organising many technical, social, and awareness activities throughout the year.</p>
	<p>PES India Chapters Council (PICC) was formed in the year 2018, in order to provide for better coordination and collaboration among various PES chapters in India. PICC has a primary objective to promote regional activities, increase PES professional membership and empower PES local leaders.</p>