

SAARC Training Workshop on ‘Electric Vehicle and its Charging Infrastructure’	
27th – 29th August, 2026 : Hybrid Mode	Ramada by Wyndham Hotel, Islamabad, Pakistan

Background

Rising energy prices, pollution concerns, and oil and gas import bills are driving the demand for Hybrid and Electric Vehicles, and related infrastructure. Electric vehicles are the key technology to decarbonize road transport, a sector that accounts for over 15% of global energy-related emissions. Recent years have seen exponential growth in the sale of Electric Vehicles together with improved range, wider model availability and increased performance. Electric vehicles (EVs) are no longer just a novel means of transportation; they have become an essential building block in the energy transition¹.

This transition from Internal Combustion Engine vehicles to EVs will bring about significant changes in the technical, digital, and social aspects of energy and transportation infrastructure. The associated charging stations are a crucial component of electric vehicles and there is immense potential in this market for technological and business advancement. While most charging demand is currently met by home charging, publicly accessible chargers are increasingly needed in order to provide the same level of convenience and accessibility as for refueling conventional vehicles.

In recent years, in order to reduce automobile emissions, the adoption of EVs has taken place rapidly in various economies. The rapid development was mainly due to two reasons. One was the development of technologies related to EV as the research in power electronics, machines, batteries and control engineering matured for EV. The other was well-established economic policies that drove and incentivized EV adoption. This included government schemes for building charging infrastructure, subsidies and tax reductions to encourage EV adoption.²

Introduction

In this context, SAARC Energy Centre is organizing a 3-days Training Workshop on ‘Electric Vehicle and its Charging Infrastructure’ on 27-29 August, 2026 (Hybrid Mode) in Ramada by Wyndham Hotel, Islamabad, Pakistan. The Training shall focus on the policy, infrastructure, standardization and technology of Electric Vehicles. It will explore the most important aspects of this new market, including the state-of-the-art technology and infrastructure of electric vehicles and charging systems.

The Training Workshop shall provide comprehensive knowledge and practical insights into the planning, design, and implementation of EV and its Charging Infrastructure. The Training shall inform participants on the latest technology, market conditions and other issues.

Objective of Training

The objective of this Training is to equip participants with the necessary skills to navigate the complexities of EV infrastructure deployment, from assessing site suitability to developing robust charging networks. Through a blend of theoretical concepts, case studies, and hands-on exercises, participants will gain the expertise required to contribute effectively to the advancement of sustainable transportation solutions.

Major Aspects to be covered during the Training

This Training Workshop will cover, but is not limited to the following aspects:

- EV technology overview and its potential in SAARC region

¹ Tracking Electric Vehicles, International Energy Agency website (<https://www.iea.org/energy-system/transport/electric-vehicles>)

² Alternative Fuels Data Center, US Department of Energy website (https://afdc.energy.gov/vehicles/electric_basics_ev.html)

- Government incentives and Policy impact
- EV technology development (Electronics, motors, machines, and batteries etc)
- Charging Station fundamentals and Distribution Grid
 - a. Location (home, office and public charging etc)
 - b. Accessibility and Demand
 - c. Charging Standards (capacity, voltage levels, AC/DC type)
 - d. Public and private funding
 - e. Charging impact on Grid (Tariff and others)
- Utilities interconnect policies and requirements
- Integration of EV infrastructure with Distributed Generation sources
- EV market trends (Overview, current status, future projection/Industry forecast)
- Smart Charging Solutions (Demand response and Load Management, Energy Storage and Peak shaving strategies)
- Economic and Life Cycle Analysis of EV
- Environmental and Social impacts of EVs
- Maintenance and Safety practices
- Codes and Standards regulation
- Case Studies: Successful Business Models
- Any other(s)

Resource Persons/Trainers

During the Workshop, training will be delivered to the participants by the following trainers, engaged from national and international market. The mode of training includes presentations, group discussions and exercises, and trainers' response to questions by the participants:

- i. Dr. Naveed Arshad, Associate Professor & Director, LUMS Energy Institute, Pakistan.*
- ii. Mr. Malik Muhammad Arslan, Energy Specialist, LUMS Energy Institute, Pakistan.*
- iii. Dr. Horizon Walker Gitano Briggs, Chief Technical Officer, Focus Applied Technologies, Malaysia.*
- iv. Mr. Jack Gregory Crawford, Associate Economic Affairs Officer, Transport Division, UNESCAP, Thailand.*

Venue of the Training Workshop

The Training Workshop (Hybrid Mode) will be organized for 3-days in Mashal Hall, Ramada by Wyndham Hotel, Islamabad, Pakistan from 27th – 29th August, 2026.

Virtual Participation

Delegates attending the Training Workshop in Online mode are requested to join the sessions via the Zoom link provided below:

Zoom Link: [<https://us06web.zoom.us/j/82083765017?pwd=as6VssLi0IDbALCrrCo5gtYe3GW4xq.1&jst=1>]

Meeting ID: [820 8376 5017] Passcode: [671631]

Contact

You may contact the following SEC official for any query or clarification concerning the Training Workshop:

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