READINESS ASSESSMENT FOR SOLAR POWERED ELECTRIC MOBILITY

Pacific Region | Stakeholder Consultation Workshop

Least Developed Countries (LDCs) & Small Island Developing States (SIDS)

Date: April 23, 2025 **Time: 02:30 PM – 04:00 PM (Fiji Time)**

Background:

Electric vehicles (EVs) offer an opportunity to rapidly reduce GHG emissions, especially when powered by renewable energy sources. The solar electric mobility integration enables greater penetration of both clean technologies. Solar energy, with its rapidly falling costs and abundant availability, emerges as a viable and sustainable option for charging EVs. To support large-scale e-vehicle deployment, ISA is actively fostering an enabling ecosystem through its '**Scaling Solar E-Mobility & Storage**' programme. It focuses on two approaches:

- Solar-powered vehicle and battery charging stations
- Vehicle Integrated Photovoltaic technology

These approaches are designed to address the multifaceted challenges and opportunities associated with the large-scale deployment of solar-powered EVs.

Project Overview:

ISA in partnership with ADB is currently conducting a study titled '**Readiness Assessment for Solar-Powered Electric Mobility: Developing an Implementation Framework for ISA's LDCs and SIDS**' as part of which a report titled 'Charging for Change: Solar Electric Mobility Global Learnings' was released at COP 29 in November 2024 at Azerbaijan. Through this study, ISA aims to:

- provide a detailed roadmap for transitioning to solar-powered electric mobility in LDCs and SIDS.
- leverage successful case studies from around the world and tailor them to the specific needs and conditions of these regions.

Expected Outcomes:

The workshop will provide key insights to assess the readiness levels of Pacific region in promoting solar-powered electric mobility ecosystem, including:

- **Evaluation of technical, policy, business drivers** to increase adoption of SEVs
- **Identifying suitable countries** for pilot project implementation
- **Actionable stakeholder recommendations** - Consolidating expert inputs to help support a robust roadmap
- Present ISA's **Solar EV Ecosystem Readiness Assessment (SEERA)** Framework

Agenda:

S. No.	Topic	Time (mins)	Presenters / Speakers
1	Opening Remarks and Context Setting	5	**Mr. Ramesh Kumar Kuruppath** (Chief of Unit, PPIC, ISA)
2	Welcome Address	5	**Mr. Jiwan Sharma Acharya** (Principal Energy Specialist, ADB)
3	ISA Presentation – Scaling Solar for E-Mobility and Storage Programme	5	**Dr. Mridula Bharadwaj** (Programme Lead – Solar E-Mobility, Storage, Green Hydrogen (ISA-ADB TA))
4	Presentation - Readiness Assessment of Solar Electric Mobility in Pacific Countries	30	ISA Project Team (ICF in India)
5	Interaction with Countries	25	Discussion with the representatives of the countries and their feedback
6	Audience Feedback	15	Q/A session with participants
7	Closing remarks	3	**Mr. Ramesh Kumar Kuruppath** (Chief of Unit, PPIC, ISA)
8	Vote of Thanks	2	**Ms. Sandeep Kaur Singh** (Programme Head - SIDS)
	Total Time (mins)	90	

Why Attend?

- Obtain insights and have discussions on solar EV landscape in the Pacific Countries
- Engage with policymakers, industry leaders, and experts.
- Contribute to shaping policy recommendations and roadmaps