

Private sector roundtable discussion: **Osaka, Japan**

## ‘Forging the Future of Solar: India-Japan Innovations for a Sustainable Asia’

July 3, 2025 | 11:00am - 12:30pm JST | 7:30am - 9:00am IST

At the Bharat Pavilion during the World Expo 2025, Osaka, Kansai, Japan





## Context (1/2)

In Japan, the annual PV installed capacity in 2024 was 5.5 GWdc. The Seventh Strategic Energy Plan (SEP) estimates PV power generation of 253 billion to 348 billion kWh in FY 2040. This corresponds to a PV installed capacity of 200 GWac to 280 GWac, based on the unit generation per capacity used in the Sixth SEP. Assuming that cumulative PV installed capacity up to FY 2024 is around 75 GWac, additional 125 GWac to 205 GWac of new installations are needed by 2040.

In the Seventh SEP, PV is positioned as a distributed resource that supports self-consumption and local production for local consumption of electricity, and the following approaches are presented: 1) Deployment premised on harmony with local communities and minimizing public burden; 2) Pursuing PV introduction where demand and supply are close to each other by making effective use of building rooftops and walls, and 3) Establishing a domestic supply chain for next-generation solar cells and strengthening industrial competitiveness. These are creating a variety of new opportunities.

India and Japan's enduring partnership has deepened into a strategic collaboration to tackle clean energy and climate challenges, with the India-Japan Clean Energy Partnership (CEP) launched in 2022 as a cornerstone initiative. This partnership reflects a mutual commitment to decarbonization by combining Japan's technological leadership in green hydrogen, ammonia-based fuels, perovskite solar cells, and energy storage with India's ambitious renewable energy goals and expanding market potential.

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## Context (2/2)

Key initiatives demonstrate the complementary strengths of both nations. The Japan Bank for International Cooperation (JBIC) plays a pivotal role in funding solar, wind, and energy storage projects in India, fast-tracking the country's energy transition. Simultaneously, capacity-building efforts led by the Japan International Cooperation Agency (JICA) equip Indian stakeholders with critical expertise in renewable integration, grid optimization, and carbon management. These initiatives not only address immediate energy challenges but also foster localized manufacturing and resilient supply chains, amplifying long-term benefits.

Building on past successes, such as Suzuki's role in revolutionizing India's automobile sector, the CEP aims to emulate a similar framework in renewable energy. A "Suzuki for Solar" strategy highlights the potential for affordable, scalable solar solutions, leveraging advanced technology, localized production, and strategic investments. Additionally, the integration of digitization, AI, and advanced energy storage systems enhances the adaptability and efficiency of these efforts.

As India advances toward its 2030 renewable energy target of 500 GW and Japan works toward its 2050 net zero goals, their partnership underscores how bilateral cooperation can drive the clean energy pathway for Asia. By aligning technological innovation with market scalability, India and Japan are establishing a replicable model for clean energy transitions and setting a benchmark for sustainable regional collaboration.

While the India-Japan partnership forms the cornerstone of this initiative, the CEO Caucus also seeks to engage broader regional stakeholders including from Korea, Taiwan, and Southeast Asia to facilitate cross-border innovation and cooperation in the solar sector. In this context, the ISA is pleased to convene the CEO Caucus, as part of its activities at the World Expo 2025 in Osaka, supported by the Ministry of New and Renewable Energy, Government of India.

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## The Meeting

The International Solar Alliance (ISA) launched the CEO Caucus as a high-level forum designed to bring together C-level industry representatives to exchange ideas, network, and contribute to the global advancement of solar energy. This initiative builds on the success of the 2024 CEO Caucus Roundtables, which focused on developing a diversified and resilient global supply chain, enabling access to technology, mobilizing capital, and creating an enabling policy environment.

## Themes of deliberations

Deliberations will be focusing on issues related to:

1. Promoting technological innovation, including in areas such as:
  - Perovskite solar cells
  - E-mobility
  - Green hydrogen
  - Green ammonia
  - Storage
2. Exploring opportunities for the Global South by leveraging solar innovation and India-Japan collaboration to scale solutions across emerging economies
3. Addressing land scarcity through innovative PV systems
4. Enhancing recyclability and sustainability, exploring how circularity can create economic, social, and environmental value
5. Transforming the Energy landscape through AI and digitalization

## Structure and Planned activities of the Japan CEO Caucus

- **Roundtable Discussions:** A series of roundtables will be organized to deliberate on the key themes. These discussions will involve industry leaders, policymakers, and experts from the solar sector and others.
- **Networking Events:** Networking opportunities will be provided to foster collaboration and partnerships among participants.
- **Policy Briefs and White Papers:** The outcomes of the discussions will be documented in policy briefs and white papers, outlining actionable recommendations for stakeholders.

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## The outcome of the session

The ISA CEO Caucus represents a significant step towards advancing solar energy globally. By bringing together industry leaders, policymakers, and experts, the Caucus aims to drive innovation, foster collaboration, and influence policymaking to create a sustainable and resilient solar energy sector.

This CEO Caucus could bring a possible announcement/compact around an India-Japan clean energy partnership

## Agenda

Time (in JST)	Agenda Item
11:00 am to 11:05 am	Opening remarks and context setting presentation - ISA
11:05 am to 11:15 am	Welcome address by Mr. Ashish Khanna, Director General, ISA
11:15 am to 11:20 am	Special Address by Mr. Shishir Kothari, Counsellor, Embassy of India in Japan
11:20 am to 11:25 am	*Special Address by Ms. Izumi Kaizuka, Director, RTS Corporation, Japan
11:25 am to 11:35 am	Inaugural Address by Mr. Takehiko Matsuo, Vice-Minister for International Affairs, Ministry of Economy, Trade and Industry, Japan
11:35 am to 11:45 am	*Keynote Address by Representative, Ministry of New and Renewable Energy, Government of India
11:45 am to 12:30 pm	Thematic deliberations with roundtable discussants
Roundtable Discussion to be followed by Lunch at the Bharat Pavilion	

*\*Participation TBC*

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