

Fact Sheet 2.0: Japan-India Economic Security Cooperation

Japan and India acknowledge with appreciation that the private sector engages in a variety of activities including ones that contribute to economic security. The two countries welcome the following efforts that are illustrative of their growing cooperation in this area:

1. Private Sector Investments-Related

Semiconductors

- Renesas Electronics has invested in CG Power's OSAT project in Sanand, Gujarat, supporting the start of mass production in 2026. The project involves a large-scale OSAT plant with significant planned investment and high-volume production capacity for automotive, industrial and advanced applications. In parallel, Renesas has expanded its engagement in India through collaborations with Centre for Development of Advanced Computing (C-DAC) and IIT Hyderabad to support semiconductor research, talent development and startup ecosystems.
- Tokyo Electron (TEL) and Tata Electronics have launched a strategic partnership to build a semiconductor ecosystem India. TEL plans to open an office in Dholera Industrial Park, Gujarat, to support Tata Electronics' new front-end fabrication. In addition, TEL announced plans to establish a new HR development ecosystem in collaboration with local businesses and educational institutions in India in April 2026.
- Fujifilm India has announced its intention to invest in a project to manufacture semiconductor materials at the Dholera Industrial Park in the state of Gujarat, with operations envisaged to commence around 2028. In June 2026, Fujifilm India and the Government of Gujarat entered into a Memorandum of Understanding (MoU) regarding this project.
- Mizuho Bank, commissioned by METI, designed a "master plan" to foster the Japan-India semiconductor industry. In October 2025, Mizuho Bank and the Government of Gujarat signed a Memorandum of Cooperation (MoC) regarding support for semiconductor investment to assist Japanese semiconductor-related companies and others in expanding into the state of Gujarat.
- ROHM is advancing semiconductor manufacturing in India, including semiconductors designed in India by ROHM, through partnerships with local companies. In December 2025, it signed an MoU with Tata Electronics to develop power semiconductor manufacturing by leveraging its back-end capabilities,

and in March 2026, it signed an MoU with Suchi Semicon to explore back-end outsourcing and mass production of power semiconductors and ICs. In addition to manufacturing, ROHM is also enhancing collaboration with both companies in marketing.

- MinebeaMitsumi is conducting a feasibility study in India on building a semiconductor and related components supply chain. The company has also signed a MoU with the Government of Tamil Nadu to cooperate toward realizing investments for establishing manufacturing and R&D facilities for high-voltage power semiconductors for railway applications and other electronics components.
- Nippon Express Holdings, Inc. is actively exploring the feasibility of semiconductor logistics in Gujarat and Assam.

Information and Communication Technology

- Rakuten Symphony and Tejas Networks have entered into partnership for the development of Open RAN network solutions. Building on such developments, Rakuten Symphony further announced its plan to expand its integrated operations on artificial intelligence and machine learning technologies in collaboration with Indian telecom operators and other stakeholders.
- 1FINITY has established a local subsidiary in India and plans to further advance cooperation with India in the field of All-Photonics Network
- Aeterlink Corp. and Softdel Systems Pvt. Ltd. have entered into a partnership for the implementation of Physical AI utilizing Aeterlink's wireless power transfer technology.
- NTT is engaged in operations in India in the MIST international submarine cable system.
- Preferred Networks and Sarvam AI have signed a MoU regarding cooperation in the R&D and deployment of generative AI. .
- NEC and Canara Bank commenced the utilization of NEC's data integration platform and AI-based analytical solutions. NEC and the Pension Fund Regulatory and Development Authority (PFRDA) commenced the utilization of a data platform known as TRACE. NEC and Jumbotail have announced a strategic collaboration to strengthen and expand the Kirana retail ecosystem through the integration of cutting-edge AI technologies.
- National Industrial Corridor Development Corporation Ltd., founded by the Government of India and JBIC, operates a Logistics Data Bank which explores the application of AI through its subsidiary NICDC Logistics Data Services, a joint venture between NICDC and NEC.

- NTT plans to continuously expand its data center business through investment and financing by JICT and JBIC.
- Japan's Ministry of Internal Affairs and Communications (MIC) resolved to further deepen bilateral cooperation by supporting collaboration between Japanese and Indian companies through demonstration projects and other initiatives, with a view to co-creating an Open RAN-related ecosystem in India.
- NEC and Reliance Jio entered into a strategic partnership to collaborate on information and communication technology infrastructure and technology, particularly on 5G technology and Open RAN.
- NEC, through its Centre of Excellence Laboratory in Chennai, promoted end-to-end Open RAN system development.
- Japan and India held a technical workshop on V2X systems, where they shared knowledge on regulatory frameworks, technological trends, and use cases related to V2X technologies in both countries and further deepened their collaboration and cooperation in the fields of V2X technologies and Intelligent Transport Systems (ITS).
- Yaquimo Inc. and the Indian Institute of Science (IISc) have signed a Letter of Intent (LOI) to advance a strategic partnership in the field of quantum technologies. The LOI provides a framework for promoting cooperation in joint research and development, as well as commercialization, across a broad range of areas, including quantum hardware, photonics and optical control technologies, quantum systems, and software.

Clean Energy

- IHI and ACME are collaborating on a project to produce approximately 400,000 tons of green ammonia annually in Odisha, using renewable energy sourced from Rajasthan as a flagship project of Japan-India clean energy cooperation. Both governments have provided financial support to ensure this project's long-term viability, investability and bankability.
- Yamanashi Prefecture and the state of Uttar Pradesh have entered into a partnership for greater cooperation in the green hydrogen sector. In this context, Kanadevia and Infistar Energy signed an MoU regarding green hydrogen production in Uttar Pradesh.
- Itochu Corporation and L&T Energy Green Tech signed a long-term partnership agreement on green ammonia, considering a plan to supply green ammonia from Gujarat.
- JBIC, in coordination with Japanese financial institutions and as part of the POWER Asia initiative, signed a loan agreement amounting JPY 80 billion with

the Power Grid Corporation of India Limited to support the diversification of energy sources and the strengthening of renewable energy supply systems via an HVDC (high-voltage direct current) transmission system.

- Idemitsu Kosan and UPL Ltd. Entered a partnership for exploration of synthetic and biofuels.
- Mitsui & Co., Chubu Electric Power, Honda Motor Co., Ltd., and Kansai Electric Power Transmission & Distribution Co., Ltd. have invested in OMC Power, which is building a 1 GW renewable energy project portfolio.
- Air Water acquired a large-scale industrial gas plant by Tata Steel at its Jamshedpur steelworks in Jharkhand. Air Water has also entered a partnership with Haryana Enterprises Promotion Centre (HEPC), an organization of the Government of Haryana, on the establishment of a framework for cooperation aimed at expanding existing bases of the industrial gas sector and promoting the successful commercialization of biomethane facilities.
- NEXI is partnering with Reliance Industries Limited with a view to building resilient supply chains in the solar power, battery energy storage system and related businesses through cooperation between Japanese and Indian companies.
- India-Japan Fund, established by JBIC and the Government of India, has invested in Pinnacle Mobility Solutions Private Limited (EKA Mobility), for manufacturing and distribution of electric buses and light commercial vehicles in India.
- Sumitomo Corporation and AMPIN Energy transition have partnered for building a green power platform supplying renewables directly to large industrial consumers.
- JBIC and Power Finance Corporation Limited signed a loan agreement amounting JPY 60 billion to support a bamboo-based bioethanol production project in Assam, Northeastern India, being implemented by Assam Bio Ethanol Private Limited.

Pharmaceuticals

- Eisai produces 80 tons of active pharmaceutical ingredients and 2 billion tablets annually at its Vizag plant in Andhra Pradesh and also operates a research and development hub for pharmaceutical manufacturing. Eisai Co. is working towards establishing a Global Capability Center in Vizag focused on AI-enabled drug development, clinical analytics and digital R&D.
- Otsuka Pharmaceutical manufactures products in Ahmedabad, Gujarat, in therapeutic areas such as intravenous (IV) solutions, enteral and parenteral

nutrition products, anti-infective drugs, oncology, and pain management, and sells them across various Indian states.

- Takeda Pharmaceutical operates an “innovation hub” that conducts global data analysis and manages a joint venture with local major player Zydus to manufacture active pharmaceutical ingredients (APIs) and intermediates. The company has partnered with Biological E. in biologics and vaccine manufacturing.
- Meiji Seika Pharma made Medreich a wholly owned subsidiary and is engaged in contract manufacturing (CMO), contract development and manufacturing (CDMO), and the manufacturing and sale of generic drugs.
- Sysmex has made investments in India to establish a diagnostics manufacturing base in Sanand II Gujarat.

2. Government and Other Institutions' Initiatives

General

- Japan's Ministry of Economy, Trade and Industry (METI) and India's Ministry of Commerce and Industry, Directorate General of Industrial Policy and Promotion, held the 7th India-Japan Industrial Competitiveness Partnership (IJICP) Vice-Ministerial Meeting and discussed cooperation under the frameworks such as the "MoC on the India-Japan Digital Partnership 2.0" and the "Joint Statement of Intent on Clean Hydrogen and Clean Ammonia."
- The Embassy of India, Tokyo organized a Japan-India Innovation Dialogue focused on critical technologies.
- The Observer Research Foundation (ORF) hosted the Japan-India Economic Security Conference and held discussions on themes such as "Engagement and Policy Efforts for Economic Resilience in the Indo-Pacific Region," "Resilient Supply Chains for Semiconductors and Critical Minerals," "Industrial Cooperation and Policy Coordination: Clean Energy, Manufacturing, and Supply Chain Facilitation," and "Japan-India Cooperation in Critical and Emerging Technologies: Priority Areas and Future Directions."

Semiconductors

- The Japan-India Chamber of Commerce and Industry Semiconductor Committee has held nine meetings of Japanese semiconductor-related companies, facilitating information exchange and networking among Japanese and Indian semiconductor-related companies, as well as discussions with the Indian central and state governments.
- METI and India's Ministry of Electronics and Information Technology (MeitY), with the participation of relevant companies, educational institutions, and government agencies from both countries, have held "Semiconductor Policy Dialogues" under the "MoC on the Japan-India Semiconductor Supply Chain Partnership." At the most recent meeting, they held a workshop focused on chemical materials and gases essential for semiconductor manufacturing.
- Working with local governments in Japan such as Iwate Prefecture, JICA has invited officials from the Indian government and university faculty members to visit Japan's semiconductor human resource development centers to train personnel for semiconductor manufacturing in India. In addition, JICA is working toward the implementation of training programs in Japan based on cooperation between the governments of Japan and India.

Critical Minerals

- Under the MoC between Japan's Ministry of Economy, Trade and Industry and India's Ministry of Mines in the field of mineral resources, both governments held the first Joint Working Group meeting in April 2026, exchanging views on strengthening critical mineral supply chains.
- GSI and JOGMEC signed a MoC to promote the exchange of information on mineral resource exploration, including related technologies.
- The Embassy of Japan in India and Japan's Ministry of Environment co-hosted a "Seminar on Critical Mineral Supply Chains through E-Waste Recycling in India." The Embassy of Japan in India will host a roundtable and matching event on the theme of strengthening critical mineral supply chains through recycling, with participation from government officials, university representatives, experts, and corporate representatives.
- Under the framework of Quad Critical Minerals Initiative, Japan and India are advancing cooperation in areas such as investment and project development, regulatory alignment and overall environmental improvement, and the recycling and recovery of critical minerals.

Information and Communication Technology

- Japan's METI and India's MeitY signed a MoC to promote cooperation between Japan's GENIAC (Generative AI Accelerator Challenge) and India's AI Mission.
- Japan's Cabinet Office and India's Ministry of Science and Technology signed the Letter of Intent (LoI) on quantum cooperation. They also exchanged views on the current state and future prospects of Japan-India cooperation in the field of quantum, science, technology, and innovation.
- Japan's MOFA and India's MEA, with the participation of relevant ministries and agencies, held the first Japan-India AI Strategic Dialogue to advance concrete cooperation under the Japan-India AI Cooperation Initiative (JAI). They also held a networking session to facilitate matchmaking between relevant companies from both countries.
- JICA supported the development of AIKosh by India's MEIT. In Telangana, a hub for the IT industry, JICA supported the design, development, and promotion of the AI data integration platform (TGDeX).
- JICA also assisted in establishing an AI research center and introducing AI research facilities at the Indian Institute of Technology Hyderabad (IITH). JICA also provides operational support for "T-Hub," a facility for Indian startups built and operated by the state government.
- JICA is conducting proof-of-concept (PoC) projects utilizing AI and data within

its yen loan projects such as “Forest Stack” in Rajasthan, which aims to build an integrated digital public infrastructure (DPI) for forest management; a PoC in West Bengal that uses AI cameras to mitigate human-elephant conflict (HEC); and “Transport Stack” in Delhi, which utilizes metro and bus traffic data.

- Japan’s MIC and India’s Ministry of Communications held the 8th ICT Policy Dialogue under the Japan-India ICT Cooperation Framework.
- Japan’s MIC resolved to further strengthen cooperation with India in order to realize the FOIP Digital Corridor Initiative by promoting the development of digital infrastructure essential for the AI and data-driven era—such as submarine cables, data centers, Open RAN, and All-Photonics Network (APN)—in the Indo-Pacific region.
- The Embassy of India, Tokyo organized a seminar with Japan’s MIC to discuss the convergences between India and Japan in the field of AI.

Clean Energy

- Japan’s Ministry of Economy, Trade and Industry and India’s Ministry of Heavy Industries signed a MoC to expand business opportunities by collaborating on measures to strengthen the battery supply chain, including promoting the effective use of existing financial support, protecting intellectual property, and proprietary information.
- Japan’s METI, JETRO, and National Solar Energy Federation of India (NSEFI) held a matchmaking event involving major companies from both countries to strengthen the solar cell supply chain.
- Japan and India signed the MoC for establishing the Joint Crediting Mechanism (JCM). Both governments adopted the Rule of Implementation (RoI) as the rules for implementing the JCM consistent with Article 6 of the Paris Agreement.
- Government of Japan and JETRO organized a business matchmaking and roundtable on battery and critical minerals supply chain with participation of over 70 companies and government organizations.
- METI and MNRE held the first Hydrogen and Ammonia Task Force meeting based on a ministerial Joint Declaration of Intent.
- Japan’s METI and India’s Ministry of Cooperatives signed a MoC to promote rural development and achieve a multi-pathway approach by utilizing energy sources such as biofuels that can be produced domestically and expanding the use of organic fertilizers obtained as byproducts of biofuel production.
- JICA, in collaboration with the National Dairy Development Board, plans to launch a baseline survey to identify challenges related to plant installation and the production of organic fertilizer from biogas residue, and to explore effective

methods of cooperation, with the aim of expanding the use of biogas produced from cow manure—a measure that will also contribute to improving the livelihoods of dairy farmers.

- JICA is considering providing support to strengthen India's renewable energy supply system by enhancing the country's manufacturing capacity for domestically produced solar panels and promoting the introduction of new equipment.
- The Embassy of India, Tokyo hosted a Battery roundtable meeting with the leading battery manufacturing corporate stakeholders of Japan with participation from METI and MOFA, Japan.
- The Embassy of India, Tokyo, Invest India, and BASC (Battery Association for Supply Chain) is organizing a multi-series Battery Cohort seminar since June 2026 focused on India-Japan Collaboration in the Battery Manufacturing ecosystem.

Pharmaceuticals

- The Office of Healthcare Policy in the Cabinet Secretariat of the Government of Japan and the Ministry of Health & Family Welfare of the Government of India held the 3rd Japan-India Joint Committee Meeting on Healthcare and discussed measures such as strengthening supply chains in the healthcare and medical sectors, including pharmaceuticals. Japan's Ministry of Health, Labour and Welfare also provided the Department of Pharmaceuticals under India's Ministry of Chemicals and Fertilizers, with a list of pharmaceuticals and vaccines that are necessary to ensure stable supplies in Japan.
- The Japan Agency for Medical Research and Development (AMED), the Department of Science and Technology (DST) of India, and the Indian Council of Medical Research (ICMR) signed a MoC on scientific and technological cooperation in science, technology, and medical fields.