List of Cooperations

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
1	Inter-company Hydrogen MOU	Malaysia	Hydronext Co., Ltd.	NanoMalaysia Berhad Nano Commerce Sdn Bhd Hypertech Industries Sdn Bhd	Joint research and development on hydrogen power generation is planned to realize off-grid electricity in Malaysia. The aim is to establish a system that enables electricity supply on remote islands using locally available materials.
2	MOU on the Consideration of Decarbonization Projects	Indonesia	Takafuji Co., Ltd.	PT.Prima Khatulistiwa Sinergi	The company will broaden its sales network and product lineup of biomass fuels to contribute to the reduction of greenhouse gas emissions. “Supplying biomass fuel to power companies in Indonesia and producing & delivering bio-coke made from PKS."
3	Development of a Novel Hybrid Methane Fermentation System for Agricultural Revitalization in Landmine-Cleared Areas	Cambodia	Ishikawa Prefectural University	University of Management and Economics	A new hybrid methane fermentation system is being developed in collaboration with a local university and introduced to rural areas. This system enables the production of methane and electricity not only from livestock manure, but also from weeds and agricultural residues. It contributes to increasing farmers’ income and reducing greenhouse gas (GHG) emissions.
4	General Agreement for the Credit Line to Support Energy-Saving Leasing for TISCO Tokyo Leasing Co., Ltd.	Thailand	JBIC	TISCO Tokyo Leasing Co., Ltd.	A credit line of up to USD 30 million has been established for local subsidiaries of Japanese companies. This initiative promotes the introduction of Japanese energy-saving technologies and services in Thailand, contributing to the country’s decarbonization efforts.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
5	MOU on Strategic Cooperation with Sarawak Energy of Malaysia	Malaysia	JBIC	Sarawak Energy Berhad	Strengthening collaboration with Sarawak Energy Berhad, the state-owned power company of Sarawak, Malaysia, to advance energy transition and enhance transmission networks across Asia. Contributing to the development of transmission and distribution infrastructure in line with the ASEAN Power Grid (APG) initiative.
6	Loan Agreement of Project Financing for the Muara Laboh Geothermal Power Expansion Project	Indonesia	JBIC Sumitomo Corporation INPEX Corporation	PT Supreme Energy Muara Laboh	A loan agreement has been signed for project finance of up to USD 138 million (JBIC portion) for the Muara Laboh geothermal expansion project. The local project company is jointly invested by Sumitomo Corporation, INPEX Corporation, and others.The total financing amount is USD 370 million, provided through co-financing by JBIC, commercial banks, and the Asian Development Bank (ADB).
7	Renewal of MOU on Strategic Business Cooperation with Petroliam Nasional Berhad (Petronas)	Malaysia	JBIC	Petroliam Nasional Berhad(Petronas)	Strengthen the partnership between JBIC and Petronas in key areas including hydrogen and ammonia, renewable energy, the CCS value chain, and the development of domestic and international power transmission networks. This MOU aims to promote collaboration between Petronas and Japanese companies both within Malaysia and globally.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
8	MOU with BCDA of Philippines	Philippines	JBIC	Bases Conversion and Development Authority	The MOU aims to promote collaboration opportunities for Japanese companies and BCDA, and to support the development and implementation of BCDA projects and programs for energy transition and quality infrastructure in the Philippines. These goals will be pursued through initiatives such as introducing Japanese technologies that contribute toward BCDA’s project development.
9	Sorimachi Co., Ltd. signs MOU with Vietnam's Ministry of Agriculture and Environment	Vietnam	Sorimachi Co., Ltd.	Ministry of Agriculture and Environment of Vietnam	A sustainable and shared digital platform will be jointly developed and operated to contribute to the modernization of production, improvement of productivity, enhancement of management and financial operations, assurance of traceability, and stronger market linkages as well as to the development of a digital ecosystem that visualizes greenhouse gas (GHG) emissions across the entire supply chain.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
10	MOU on decarbonization technology cooperation and joint research with Vietnam National University of Agriculture	Vietnam	Agritree Co., Ltd.	Vietnam National University of Agriculture	Starting in July 2025, a decarbonization technology system combining solar sharing equipment and battery storage will be introduced, with a Project Idea Note (PIN) to be submitted to JCMA in September 2025 for JCM project consideration. The system is designed for 100% self-consumption of renewable energy and battery storage, without relying on conventional grid electricity, and is expected to contribute to GHG emission reductions. The installed solar sharing equipment is also expected to reduce methane emissions from rice paddies through shading and heat shielding effects.
11	MOU on decarbonization technology cooperation and joint research with Can Tho University	Vietnam	Agritree Co., Ltd.	Can Tho University	Starting in July 2025, a decarbonization technology system combining solar sharing equipment and battery storage will be introduced, with a Project Idea Note (PIN) to be submitted to JCMA in September 2025 for JCM project consideration. The system is designed for 100% self-consumption of renewable energy and battery storage, without relying on conventional grid electricity, and is expected to contribute to GHG emission reductions. The installed solar sharing equipment is also expected to reduce methane emissions from rice paddies through shading and heat shielding effects.

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12	MOU with the National Institute of Agriculture Plan and Projection to introduce solar sharing, a decarbonization technology, in the agricultural sector	Vietnam	Agritree Co., Ltd.	National Institute of Agriculture Plan and Projection	A Project Idea Note (PIN) for the decarbonization technology system combining solar sharing equipment and battery storage, introduced in July 2025, will be submitted to JCMA in September 2025 for JCM project consideration. The initiative aims to promote decarbonization in Vietnamese agriculture through the introduction of solar sharing technology, while also increasing farmers' income. The system is designed for 100% self-consumption of renewable energy and battery storage, without relying on conventional grid electricity, and is expected to contribute to GHG emission reductions. The installed solar sharing equipment is also expected to reduce methane emissions from rice paddies through shading and heat shielding effects.
13	Demonstration of climate change countermeasures and fertilizer absorption efficiency improvement in rice production in Vietnam using biostimulant materials	Vietnam	AGRI SMILE Co., Ltd. Mitsubishi Research Institute, Inc.	THE PAN GROUP JOINT STOCK COMPANY	The effectiveness of biostimulant materials will be evaluated in rice production, focusing on climate change adaptation and improved fertilizer absorption efficiency. These materials are expected to activate the plant's immune system, leading to improved growth and yield even under climate stress conditions.
14	Memorandum of Agreement between Faeger and Philippine Rice Research Institute (PhilRice)	Philippines	Faeger Co., Ltd.	Philippine Rice Research Institute (PhilRice)	Joint research will be conducted with the Philippine Rice Research Institute on Alternate Wetting and Drying (AWD) irrigation in rice paddies. The smooth introduction of AWD irrigation is expected to reduce greenhouse gas emissions and improve profitability.

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15	Memorandum of Understanding between Faeger , and Dinalupihan Municipal Agriculture Office	Philippines	Faeger Co., Ltd.	Dinalupihan Municipal Agriculture Office	Verification is being conducted in Dinalupihan, Bataan Province, Philippines, for the implementation of an AWD (Alternate Wetting and Drying) irrigation project. The project aims to establish smooth operational procedures.
16	Memorandum of Understanding on Technical Support and Human Resource Development Cooperation Aimed at Improving the Quality and High Added Value of Vietnamese Fishery Products	Vietnam	Fish Interior Co., Ltd.	Ministry of Agriculture and Rural Development of Vietnam: the Fisheries Surveillance Bureau	Enhancing the energy efficiency and electrification of distribution infrastructure for aquatic products in Vietnam, including fishing vessels and transport trucks. Improving aquaculture practices by utilizing non-fish-based feed and promoting the use of blue carbon resources.
17	Aeon Topvalu Vietnam Doveco Vietnam Creating The Agricultural Format of The Future	Vietnam	AEON TOPVALU VIETNAM COMPANY LIMITED	DOVECO	Technological innovations will be pursued to reduce the environmental impact of products manufactured by DOVECO, contributing to sustainable agricultural development and the formation of production areas that support regional revitalization. By utilizing Japanese technologies and equipment, and organizing training programs, seminars, and forums, the initiative aims to improve and disseminate production technologies that contribute to greenhouse gas (GHG) emission reductions, thereby promoting high value-added agriculture in Vietnam.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
18	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Bac Lieu Province	MOU has been signed with the Department of Agriculture and Rural Development (DARD) of Bac Lieu Province. The initiative aims to generate carbon credits under the One Million Hectare Project.
19	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Soc Trang Province	MOU has been signed with the Department of Agriculture and Rural Development (DARD) of Soc Tran Province. The initiative aims to generate carbon credits under the One Million Hectare Project.
20	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Can Tho Province	MOU has been signed with the Department of Agriculture and Rural Development (DARD) of Can Tho Province. The initiative aims to generate carbon credits under the One Million Hectare Project.
21	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	An Giang Province	MOU has been signed with the Department of Agriculture and Rural Development (DARD) of An Giang Province. The initiative aims to generate carbon credits under the One Million Hectare Project.
22	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Hau Giang Province	MOU has been signed with the Department of Agriculture and Rural Development (DARD) of Hau GiangProvince. The initiative aims to generate carbon credits under the One Million Hectare Project.
23	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Ninh Binh Province	MOU has been signed with the Department of Agriculture and Environment (DAE) of Ninh Binh Province. The initiative aims to generate carbon credits through a soil carbon sequestration project using cover crops.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
24	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Agriculture Science Institute of Northern Central Vietnam (ASINCV)	A Memorandum of Agreement (MOA) has been signed with ASINCV. ASINCV will be commissioned to measure methane emission reductions in a rice paddy methane reduction project in the north-central region of Vietnam.
25	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Vietnam National University of Agriculture (VNUA)	MOA has been signed with the Vietnam National University of Agriculture (VNUA). VNUA will be commissioned to measure methane emission reductions in a rice paddy methane reduction project in the northern region of Vietnam.
26	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Agricultural Science Institute for Southern Coastal Central of Vietnam (ASISOV)	MOA has been signed with ASISOV. ASISOV will be commissioned to measure methane emission reductions in a rice paddy methane reduction project in the south-central region of Vietnam.
27	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Cuu Long delta Rice Research Institute (CLRRI)	MOA has been signed with the Cuu Long Delta Rice Research Institute (CLRRI). CLRRI will be commissioned to measure methane emission reductions in a rice paddy methane reduction project in the southern region of Vietnam.
28	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Institute of Agricultural Environment (IAE)	MOU has been signed with the Institute of Agricultural Environment (IAE). The collaboration aims to integrate Green Carbon's emission calculation system with Vietnam's national emission management system.
29	MOU on Agricultural Carbon Credit Generation in Vietnam	Vietnam	Green Carbon	Can Tho University (CTU)	MOU has been signed with Can Tho University (CTU). The agreement involves joint research on satellite data analysis.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
30	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Provincial Agriculture Office (PAO) of Bulacan Province	MOU has been signed with the Provincial Agriculture Office (PAO) of Bulacan Province. The initiative aims to generate carbon credits through methane emission reductions in rice paddies.
31	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	PAO of Batangas Province.	MOU has been signed with the PAO of Batangas Province. The initiative aims to generate carbon credits through methane emission reductions in rice paddies.
32	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	PAO of Tarlac Province	MOU has been signed with the PAO of Tarlac Province. The initiative aims to generate carbon credits through methane emission reductions in rice paddies.
33	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	PAO of Bohol Province	MOU has been signed with the PAO of Bohol Province. The initiative aims to generate carbon credits through methane emission reductions in rice paddies.
34	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Visayas State University (VSU)	MOA has been signed with VSU. VSU will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Leyte and Bohol Provinces
35	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	University of the Philippines Los Banos (UPLB)	MOA has been signed with the UPLB. UPLB will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Bulacan, Batangas, and Laguna Provinces.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
36	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Isabela State University (ISU)	MOA has been signed with the ISU. ISU will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Isabela Provinces.
37	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Central Luzon State University (CLSU)	MOA has been signed with the CLSU. CLSU will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Nueva EcijaProvinces.
38	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Nueva Vizcaya State University (NVSU)	MOA has been signed with the NVSU. NVSU will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Nueva Vizcaya Provinces.
39	MOU on Agricultural Carbon Credit Generation in the Philippines	Philippines	Green Carbon	Tarlac Agricultural University (TAU)	MOA has been signed with the TAU. TAU will be commissioned to measure methane emission reductions in rice paddy methane reduction projects in Tarlac Provinces.
40	MOU on Agricultural Carbon Credit Generation in the South East Asia	Philippines	Green Carbon	Southeast Asian Regional Center for Graduate Study and Research in Agriculture (SEARCA)	MOU has been signed with SEARCA. The initiative aims to generate carbon credits through the promotion of decarbonized farming practices, including the use of cover crops.
41	MOU on Agricultural Carbon Credit Generation in Thailand	Thailand	Green Carbon	Rubber Authority of Thailand (RAOT)	MOU has been signed with the RAOT. The initiative aims to generate carbon credits through a project that produces biochar from rubber tree residues.
42	MOU on Agricultural Carbon Credit Generation in Thailand	Thailand	Green Carbon	Rajamangala University of Technology Phra Nakhon (RMUTP)	MOA has been signed with RMUTP. The initiative aims to generate carbon credits through methane emission reductions in rice paddies.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
43	MOU on Agricultural Carbon Credit Generation in Cambodia	Cambodia	Green　Carbon	Royal University of Agriculture (RUA)	MOA has been signed with the RUA. RUA will be commissioned to measure methane emission reductions in a rice paddy methane reduction project in Battambang
44	MOU between Loc Troi Group (Vietnam) and NEWGREEN Inc. (Japan) on Methane Emission Reduction in Rice Paddies	Vietnam	NEWGREEN Inc.	Loc Troi Group	Establishing a collaborative framework for the research and implementation of cultivation methods utilizing AWD and AIGAMOROBO, aiming at the early achievement of methane emission reduction targets in the Mekong 1mill.ha. project.
45	MOU for Sustainable Agricultural Development between Vietnam and Japan by MUFG Bank, VietinBank, and PSAV.	Vietnam	MUFG Bank, Ltd	VietinBank	Organize events to facilitate information exchange, business matching, and investment promotion among agriculture-related companies, including initiatives for decarbonization-focused business collaboration.
46	Establishment of a Low-GHG Sugar Supply Chain in Vietnam	Vietnam	ITOCHU Corporation	TTC AgriS	To support TTC AgriS's goal of achieving net-zero GHG emissions by 2035, collaborative efforts are being made to promote the production and procurement of environmentally friendly sugar both within and outside Vietnam. Through a GHG reduction platform, initiatives are being advanced to continuously reduce and market imported sugar—such as from Australia and Thailand—for the Vietnamese market, while also establishing a foundation for calculating GHG emissions based on life cycle assessment (LCA) and promoting ongoing GHG reduction efforts for domestically produced sugar in Vietnam.

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47	Collaboration with Intimex Group on improving quality and productivity of Instant coffee produced	Vietnam	Kanematsu	Intimex	Through collaboration aimed at improving the quality and productivity of Vietnamese coffee, the initiative seeks to establish an efficient production system that contributes to the reduction of greenhouse gas (GHG) emissions.
48	Cooperation for sustainable agriculture development through carbon credits and the application of alternate wetting and drying with satellite technology support	Indonesia	Archeda Space Tech Accelerator	Indonesian Agency for Agricultural Engineering and Modernization	The partnership seeks to visualize methane reduction and water management through satellite-based monitoring, thereby enhancing agricultural productivity and contributing to climate change mitigation.
49	Collaborative Research Agreement for SATRESP in Cambodia	Cambodia	Japan International Research Center for Agricultural Science	Royal Univ. of Agriculture Inst. Of Technology of Cambodia	In Cambodia, where methane emitted from rice paddies is a major source of greenhouse gas emissions, the project aims to establish a locally appropriate intermittent irrigation method, thereby contributing to the achievement of Cambodia's NDC (greenhouse gas reduction target) determined by the country itself.
50	Collaborative Research Agreement between JIRCAS and Halu Oleo Univ, Indonesia	Indonesia	Japan International Research Center for Agricultural Science	Halu Oleo University	In order to cope with the increasing risk of future climate change in Indonesia, which has rich coastal ecosystems with high biological diversity, this project proposes measures to strengthen the resilience of the target marine area by considering it as an integrated social-ecological system.
51	Collaborative Research Agreement between JIRCAS and Malaya University, Malaysia	Malaysia	Japan International Research Center for Agricultural Science	Malaya University	Develop sustainable tropical forest management practices based on appropriate monitoring of tropical mangrove forests, incorporating the adaptive capacity of natural and planted forests in Peninsular Malaysia, along with ecological and genetic analysis.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
52	Collaborative Research Agreement between JIRCAS and PhilRice	Philippines	Japan International Research Center for Agricultural Science	PhilRice	Develop GHG reduction technologies by combining Filipino rice varieties and water management.Reducing methane emissions in global boiling is an urgent issue, and it is imperative to develop technologies that meet the current situation in Southeast Asia in order to contribute to reducing emissions from rice paddies, one of the main methane emitters.
53	Collaborative Research Agreement between JIRCAS and CLRRI	Vietnam	Japan International Research Center for Agricultural Science	Cuu Long Delta Rice Research Institute (CLRRI),	Develop GHG reduction technologies by combining Vietnamese rice varieties and water management. Reducing methane emissions in global boiling is an urgent issue, and it is imperative to develop technologies that meet the current situation in Southeast Asia in order to contribute to reducing emissions from rice paddies, one of the main methane emitters.
54	MOU between JIRCAS and BSWM, Philippines	Philippines	Japan International Research Center for Agricultural Science	Bureau of Soils and Water Management	Develop and implement technologies for soil carbon sequestration, soil runoff mitigation, and river water quality conservation that are resilient to climate change, harmonize with the environment, and enable resource recycling.

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55	Dissemination of technologies that contribute to climate change mitigation and sustainable agriculture and joint research for their application in the Asia-Monsoon region	Indonesia, Thailand, Vietnam	Japan International Research Center for Agricultural Science	Indonesia: Indonesian Agricultural Environment Research Institute, Research Center for Food Crops of National Research and Innovation Agency Thailand: Joint Graduate School of Energy and Environment, Kasetsart University Vietnam: Can Tho University, Hue University, Nghe An Department of Agriculture and Rural Development, Agricultural Genetics Institute, The Institute of Animal Sciences for Southern Vietnam, Thai Nguyen University	In order to promote the deployment of technologies that contribute to climate change mitigation and sustainable agriculture, information sharing and joint research have been conducted to disseminate technologies scalable in the Asia-Monsoon region and for their application in various regions.
56	Joint Research Agreement for Next-Generation Biomass Upcycling Technology	Malaysia	Japan International Research Center for Agricultural Science	Universiti Sains Malaysia (USM)	In collaboration with Universiti Sains Malaysia (USM), efforts are underway to develop and demonstrate next-generation biomass upcycling technologies that convert unused biomass generated from palm oil production into high-value energy and materials. This initiative also aims to further promote the international dissemination of these technologies.
57	MOA between JIRCAS and Central State University	Philippines	Japan International Research Center for Agricultural Science	College of Agriculture and Forestry, Central State University,	In the Philippines, forest conservation technologies are being developed to support upland environments and improve farmers' livelihoods. By adapting domestic reforestation techniques to the local conditions of Negros Island, the initiative aims to implement resource management measures that are highly effective for soil and water conservation, while also contributing to the enhancement of rural incomes.

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58	Cooperation in APO-COE program	Asian Productivity Organization (APO) member countries	National Agriculture and Food Research Organization	Asian Productivity Organization (APO) Secretariat	Under the Center of Excellence (COE) program of the Asian Productivity Organization (APO), efforts are being made to transfer Climate-smart Agriculture technologies developed by NARO (National Agriculture and Food Research Organization) to member countries, contributing to increased agricultural productivity and the reduction of greenhouse gas (GHG) emissions.
59	Joint study between INPEX Browse E&P Pty Ltd. and Chubu Electric Power Co., Inc. toward the realization of CCS in the Northern Territory of Australia	Australia	Chubu Electric Power Co., Inc.	INPEX Browse E&P Pty Ltd	The parties will study the optimal value chain for cross-border CO_2 transport and storage from Nagoya Port to the Bonaparte Basin, including an integrated schedule aligned with relevant legal and regulatory procedures.
60	Commencement of trial plantation of non-edible oilseed tree crop Pongamia in Queensland, Australia,	Australia	Idemitsu Kosan Co.,Ltd	Stanmore Terviva	The trial plantation will be conducted in collaboration with Terviva, which has 15 years of research achievements and cultivation capabilities with Pongamia, which is a potential feedstock for SAF, on a buffer area of a coal mine of Stanmore Resources.
61	MOU for Joint Exploration towards Achieving CO2 Emission Reduction in the Heavy Industry Sector between Kawasaki Heavy Industries and Low Emission Technology Australia (LETA)	Australia	Kawasaki Heavy Industries, Ltd.	Low Emission Technology Australia	The purpose of this MOU is to collaborate on the development and deployment of Post Combustion Capture technology, especially for the heavy industry sector.

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62	Cooperation among PT PLN (Persero), Chubu Electric Power Co., Inc., and the Okinawa Electric Power Company, Incorporated. regarding the de-dieselization in Indonesia	Indonesia	Chubu Electric Power Co., Inc. Okinawa Electric Power Company, Incorporated.	PT PLN (Persero)	Feasibility study on de-dieselization in Indonesia through solar power generation, battery storage, and grid stabilization measures in the island regions.
63	MOU between PT PLN （PERSERO） and Chubu Electric Power Grid regarding capacity building in transmission and distribution area	Indonesia	Chubu Electric Power Co., Inc.	PT PLN （PERSERO）	Both companies cooperate with capacity building as well as technological exchange regarding transmission and distribution’s technology, smart grids and digital transformation.
64	JOINT STUDY AGREEMENT ON JOINT PROJECT "Agro-forestation of Rubber Tree for Producing Carbon Neutral Oil"	Indonesia	JAPAN COOPERATION CENTER FOR PETROLEUM AND SUSTAINABLE ENERGY	Pertamina PTPN-3	To study an agro-forestaion plan in rubber plantation and the methodology for carbon credit creation in collaboration with Pertamina and PTPN-3 (state-owned plantation company) to generate carbon credits in order to achieve carbon offset for Pertamina's petroleum products.
65	Memorandum of Cooperation between PT Pupuk Indonesia (Persero) and JICA concerning partnership toward promoting Clean Ammonia Value Chain Development	Indonesia	Japan Inernational Cooperation Agency (JICA)	PT Pupuk Indonesia (Persero)	1. Through regular exchange of opinions etc., the participants are going to make continuous dialogue for further cooperation regarding the promotion of clean ammonia. 2. The Participants continue cooperate for JICA’s Data collection survey for establishing a value chain for new energy (hydrogen and ammonia). Each Participant is going to obtain roadmap for Indonesia – Japan hydrogen partnership. 3. Conducting any other forms of cooperation as mutually decided by the Participants.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
66	Joint Development Agreement for CCGT Project in Celukan Bawang,Bali, Indonesia	Indonesia	Electric Power Development Co.,Ltd.(J-Power)	PT. PLTG Celukan Bawang	In order to contribute Net Zero target in Indonesia, PT. PLTG Celukan Bawang and Electric Power Development Co., Ltd. (J-Power) have signed Joint Development Agreement (JDA) for a gas-powered Combined Cycle Power Plant.
67	Detail Study of Joint Demonstration Project for Renewable Energy Deployment in Remote Islands in North Kalimantan	Indonesia	KRAFTIA	PLN Indonesia Power	In 2023, signed a comprehensive MoU with PLN Indonesia Power on renewable energy project development. As a concrete outcome, a NEDO international demonstration project is underway in Nunukan Island, North Kalimantan, to use renewable energy as a baseload source and raise the RE share in island microgrids.In collaboration with local government, establishing a local biomass fuel supply model.
68	MOU on collaboration for de-carbonization in Cirebon 2 thermal power plant project	Indonesia	Marubeni Corporation JERA Co., Inc	PT. Cirebon Energi Prasarana PT PLN	Cirebon Expansion thermal power plant, owned and operated by PT. Cirebon Energi Prasarana (“CEPR”), in which Marubeni and JERA have equity stakes, will jointly study the feasibility of optimal decarbonization solutions for the power plant with PLN, such as biomass/ammonia co-firing and CCS/CCUS utilization.
69	Memorandum on the development and effective utilization of various types of waste generated at rice mills in Indonesia	Indonesia	PT Santomo Biomass Indonesia	CV Sumber Pangan	A project to produce products using various types of waste such as rice husks generated at rice mills in Indonesia, and to supply these products domestically in Indonesia and export them to Japan.
70	Decarbonization by utilization of electric motorcycle in Indonesia	Indonesia	PT Santomo Green Power Management	PT GoTo Gojek Tokopedia Tbk	Acceleration of EV shift to Gojek drivers by providing electric motorcycle with battery swapping technology by PT Santomo Green Power Management and PT GoTo Gojek Tokopedia.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
71	The Pilot Project for Restoration and Management of Peat Ecosystems in Central Kalimantan Province	Indonesia	PT. Sumitomo Forestry Indonesia	Ministry of Environment and Forestry (MOEF)	Indonesian Forestry Ministry and PT. Sumitomo Forestry Indonesiasigned MoU to develop sustainable model for Central Kalimantan peatland restoration.
72	MOU for cooperation on large-scale renewable energy deployment to achieve decarbonization in Deltamas City including GIIC	Indonesia	Sojitz Corporation	SINARMAS LAND LIMITED	The parties confirm their cooperation to consider two projects aimed at promoting decarbonization of industry in Deltamas City including GIIC:　1. Development of large-scale solar power projects utilizing green spaces, ponds and other available areas both within and around the estate　2. Development of bio-methane/CNG value chain
73	MOU regarding various studies towards the realization of the Rajabasa Geothermal Power Project	Indonesia	Sumitomo Corporation INPEX CORPORATION	PT Supreme Energy	To study various measures (economics improvement, geothermal risk mitigants, etc.) for realization of the project, being developed by Sumitomo Corporation, INPEX CORPORATION, and PT Supreme Energy.
74	MEMORANDUM OF UNDERSTANDING CONCERNING RESEARCH AND INNOVATION COLLABORATION IN LOW CARBON TECHNOLOGY AND MANUFACTURING	Indonesia	Sumitomo Heavy Industries, LTD	National Research and Innovation Agency of the Republic of Indonesia (BRIN)	Joint research and development of low-carbon technologies and manufacturing in sectors such as power generation, wastewater treatment, and food processing etc.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
75	Java-Madura-Bali (”Jamali") Electricity Grid Impact Study and Creation of Short-Mid Term Decarbonization Master Plan in Indonesia	Indonesia	Tokyo Electric Power Services CO.,Ltd. (TEPSCO) Sumitomo Corporation	PT PLN	In order to achieve Net Zero Emission in 2060, Indonesia targets to cover more than half of the total electricity capacity by renewable energy (RE). However, the power system will become unstable when the proportion of RE increases. This study by Tokyo Electric Power Services Co., Ltd. and Sumitomo Corporation will identify the challenges to expand RE introduction to the Jamali Grid, and propose measures for grid stabilization by the “utilization of existing power generation facilities” and its implementation priority to PLN (state electricity company).
76	Memorandum of Understanding on e-methane Development in Indonesia	Indonesia	Tokyo Gas Asia Pte. Ltd. IHI Corporation	PT Pertamina	Between 2022 and 2023, Pertamina and IHI conducted a feasibility study on e-methane production costs. Following that study, in 2025 Tokyo Gas will join as well and altogether explore the opportunity and feasibility of exporting e-methane to Japan.
77	Joint Development of Bioenergy Projects in Malaysia and Indonesia	Indonesia Malaysia	Sumitomo Corporation	reNIKOLA Holdings SDN BHD	Establishing a collaborative framework by reNIKOLA Holdings SDN BHD and Sumitomo Corporation to jointly develop and expand the bioenergy (biogas and biomethane) businesses in Malaysia and Indonesia, with the aim of contributing to the realization of carbon neutrality in both countries.

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
78	Fuel Conversion Project Using Green Hydrogen Burners in the Lao PDR	Lao PDR	TSB GreeNex Co., Ltd. Lao Green Hydrogen Co., Ltd. MZEC Co., Ltd.	Viet Phuong Investment Group Joint Stock Company VPG Lao-Viet Sole Company Limited Lao Sanxai Minerals Sole Co., Ltd	TSB Green Nex and Lao Green Hydrogen of the Laos will jointly conduct a feasibility study on a project to convert fuel source for the calcination process in planned alumina processing—based on bauxite deposits in Sekong Province, Laos—from fossil fuels to green hydrogen.
79	Decarbonization Collaboration with Malaysian Rubber Council	Malaysia	Asuene Inc.	Malaysian Rubber Council	Provision of decarbonization training and introduction of calculation system for MRC member companies
80	Landfill rehabilitation & development project in Malaysia	Malaysia	Idemitsu Kosan Co.,Ltd	PETCO, SAxon Renewable Energy AE Carbon Capita	Idemitsu International (Asia), PETCO Trading Labuan Company, Saxon Renewable Energy and AE Carbon Capital will explore the possibilities of potential business opportunities and/or to collaborate in relation to a landfill rehabilitation & development project in Malaysia.
81	Equity Investment Agreement for Biofuel Production Plant among Malaysia, PETRONAS, and ENI	Malaysia	Euglena Co., Ltd	PETRONAS ENI	Euglena Co., Ltd. had increased its equity stake to 15% in the joint venture company responsible for constructing and operating a commercial-scale biorefinery in Malaysia jointly promoted with PETRONAS Mobility Lestari Sdn Bhd, a subsidiary of PETRONAS and Enilive S.p.A., a subsidiary of Eni S.p.A. as of July 16, 2025.
82	Biomass steam supply agreement between Kaneka Malaysia Group and BAC Renewable Energy	Malaysia	Kaneka Malaysia Group	BAC Renewable Energy (BACRE)	As part of effort from the Kaneka Malaysia Group (KM) to achieve carbon neutrality by 2050, KM contracts the steam purchase agreement with BAC Renewable Energy (BACRE).

No.	Project	Country	Japanese Company/Instituiton	Partner in AZEC Countries	Overview
83	MOU on the Implementation of a Feasibility Study for CO_2 Capture from Emission Sources in Malaysia between Kawasaki Heavy Industries and PETRONAS CCS Solutions Sdn. Bhd.	Malaysia	Kawasaki Heavy Industries, Ltd.	PETRONAS	A study will be conducted on the application of Kawasaki's CO_2 capture technology (KCC; Kawasaki CO_2 Capture) to industrial emission sources in Malaysia, examining policy, economic, and technical aspects. In addition, considerations will be made toward the introduction of a demonstration unit aimed at capturing CO_2 from local emission sources.
84	MEMORANDUM OF CO-OPERATION BETWEEN THE MINISTRY OF ECONOMY, TRADE AND INDUSTRY OF JAPAN AND THE GOVERNMENT OF MALAYSIA IN THE FIELD OF CARBON CAPTURE AND STORAGE	Malaysia	METI	Ministry of Economy	Initiating bilateral discussions to enable cross-border CCS, discussion on policy to enable CCS deployment, and strengthening technical co-operation
85	Key Principles Agreement execution for Southern Offshore Peninsular Malaysia CCS project	Malaysia	MITSUI & CO., LTD.	Petronas Total Energies	The CCS project has been jointly developed by PETRONAS, Mitsui and TotalEnergies since 2023 and the parties agreed to enter Key Principles Agreement (KPA) in July 2025 to develop the project further. The project aims to develop the first CCS value chain to store industrial CO2 from Asian countries, mainly Japan, in offshore Peninsular Malaysia. The project is awarded JOGMEC's Advanced CCS program and aiming to commence operations by the early 2030s.

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86	MOU between DBOS and Mizuho for Strategic Collaboration	Malaysia	Mizuho Bank	Development Bank of Sarawak (DBOS)	Establish strategic collaboration between Development Bank of Sarawak Berhad (DBOS) and Mizuho Bank (Malaysia) Berhad (Mizuho) to promote and support the development of infrastructure projects in line with the aspiration and vision of the State of Sarawak, a state abundant in renewable energy resources.
87	Memorandum of Cooperation on Energy Partnership between the DOE of the Philippines and the METI of Japan	Philippines	METI	The DOE of the Philippines	The DOE of the Philippines and the METI of Japan intend to pursue a Memorandum of Cooperation on Energy Partnership.
88	Mizuho Bank and PEZA MOU for business cooperation	Philippines	Mizuho Bank	Philippine Economic Zone Authority（PEZA）	MOU between PEZA (Philippine Economic Zone Authority) and Mizuho Bank to support entry to the Philippines and partnership with local companies, since 2012. In 2025, scope of the MOU was extended to ESG, including transition credits.
89	MOU on Decarbonization between Zeroboard and Philippine Economic Zone Authority (PEZA)	Philippines	Zeroboard Inc.	Philippine Economic Zone Authority (PEZA)	Zeroboard and the Philippine Economic Zone Authority (PEZA) have signed an MOU to promote decarbonization in Philippine special economic zones. We collaborate on GHG emissions management and GX human resource development.
90	Collaboration to decarbonize the supply chain	Singapore	Asuene Inc.	Pacific International Lines	Introduction of the system to PIL and efforts to promote decarbonization to PIL's supply chain partners
91	Collaboration for accelerating the commercialization of sustainable aviation fuel (SAF) synthesis technology	Singapore	IHI Corporation	ISCE2(: Institute of Sustainability for Chemicals, Energy and Environment)	Accelerating the commercialization of a technology co-developed with IHI and ISCE², which synthesizes hydrocarbons directly from hydrogen and CO_2 for use in SAF.

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92	GenZero and Mizuho Bank Strategic partnership for transition credits	Singapore	Mizuho Bank	GenZero	In February 2025, GenZero and Mizuho Bank signed an MOU to form a strategic partnership for transition credits, which are currently being developed to facilitate the early retirement of coal-fired power plants.
93	Statement of Intent to unlock investment opportunities in decarbonization in Asia	Singapore	MUFG Bank, Ltd. NEXI	Monetary Authority of Singapore (MAS) International Finance Corporation (IFC) Black Rock AIA	November 12,2024 – MAS, BlackRock, IFC, NEXI, AIA, and MUFG have signed an SOI at COP29 to explore ways to work together on a blended finance debt initiative for global investors seeking opportunities to finance corporates' decarbonization projects at scale in Asia with a focus on Southeast Asia(SEA).
94	Collaboration agreement on decarbonization solutions in Thailand	Thailand	Asuene Inc.	Banpu Next Co.,Ltd.	Conclusion of collaboration agreement with Thai local company Banpu Next for Asuene's GHG calculations
95	Hands-on Support for Thai Companies in Calculating and Reducing Greenhouse Gas (GHG) emissions	Thailand	INTERNATIONAL CENTER FOR ENVIRONMENTAL TECHNOLOGY TRANSFER (ICETT)	Department of Industrial Works （DIW）	ICETT will provide hands-on support for Thai companies (approximately three companies) in calculating greenhouse gas (GHG) emissions in fiscal year 2025 . This project will be implemented based on the Memorandum of Understanding (MOU) that Department of Industrial Works (DIW), Ministry of Industry of Thailand and ICETT signed in May 2024, to support GHG emissions calculation and reduction efforts in Thailand's industrial sector.

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96	Collaboration with PTT on Building a Hydrogen and Ammonia Supply Chain for Decarbonization of Thailand	Thailand	JERA Co., Inc	PTT	JERA and PTT will collaborate and consider the building of hydrogen/ammonia supply chain creation in Thailand toward carbon neutrality by 2050 and net zero emission by 2065. Under the MOU, the consortium with JERA, JERA Asia and Toyo engineering is conducting the feasibility study about ammonia cracking funded by NEDO.
97	Promoting Collaborative Solar and Battery Storage Projects in Thailand (Lopburi & Ayutthaya)	Thailand	Minebea Mitsumi	Super Energy	In collaboration with Super Energy, a private power producer in Thailand, we will jointly invest in and operate a total of 152MW-scale solar power generation and battery storage projects for 25 years at sites in Bang Pa-in, Ayutthaya Province, and Lopburi Province.
98	MoU on the biochar business collaboration between TOWING and SCG Cement	Thailand	TOWING	SCG Cement	TOWING will enhance the biochar produced by SCG Cement with its proprietary microbial technology, creating “high-performance biochar,” and the parties jointly pursue business development in Thailand
99	MOU on standardization of high-precision CO2 emissions measurement toward decarbonization among companies and related organizations in AZEC partner countries	Thailand	YN2-TECH(Thailand)co.,ltd. Kyokko Electric Co.,Ltd.	TOMAS TECH Thai-Nichi Institute of Technology.	To promote the standardization of sensor measurement accuracy, this initiative addresses the issue of insufficient accuracy in commercially available sensors that quantitatively and automatically measure CO_2 emissions. This is a critical challenge in achieving CN in AZEC partner countries. To tackle this, a new forum for discussion and a business-matching framework will be established to formulate specific evaluation criteria.

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100	MOU on Decarbonization between Zeroboard and Rojana Industrial Park	Thailand	Zeroboard Inc.	Rojana Industrial Park	Zeroboard and Rojana Industrial Park signed an MOU to jointly promote decarbonization in Thailand, utilizing Zeroboard's GHG visualization and reduction platform for tenants within the industrial park.
101	Carbon Emission Reduction in the Raw Material in Region of Lam Son Sugar Industry	Vietnam	Idemitsu Kosan Co.,Ltd	Lasuco Sagri	In January 2025, Idemitsu and Lasuco began a regenerative agriculture trial using Sagri's satellite tech to reduce fertilizer use and generate carbon credits from lower GHG emissions.
102	MOU for Cooperation Toward CCS Project Formation in Vietnam	Vietnam	JOGMEC ENEOS Xplora Inc.	Petro Vietnam NS2PC	To contribute to the net zero emissions by 2050 in Vietnam, this MOU establishes a cooperative framework for launching a Carbon dioxide Capture and Storage (CCS) project.
103	MOU on promoting decarbonization management in Vietnam between Zeroboard and CAE	Vietnam	Zeroboard Inc.	CENTER OF ANALYSIS AND ENVIRONMENT (CAE)	Zeroboard has formed partnership with Udata, a Vietnamese company who provides IoT, energy monitoring, energy efficiency solutions for industrial buildings.
104	MOU on promoting GHG calculation tool between Zeroboard and EGP	Vietnam	Zeroboard Inc.	Vietnam Enterprise Governance Platform (EGP)	Zeroboard and EGP became partnership to jointly promote decarbonization in Vietnam, utilizing Zeroboard's GHG calculation and visualization platform for local companies.
105	MOU on Decarbonization between Zeroboardand FPT IS	Vietnam	Zeroboard Inc.	FPT IS	Zeroboard has signed a partnership MOU with FPT IS, a subsidiary of FPT Corporation, Vietnam's largest telecommunications and IT company.

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106	MOU on promoting GHG calculation tool between Zeroboard and Udata	Vietnam	Zeroboard Inc.	Long Duc Industrial Park	Zeroboard and Long Duc Industrial Park signed an MOU to jointly promote decarbonization in Vietnam, utilizing Zeroboard's GHG visualization and reduction platform for tenants within the industrial park.
107	MOU on Decarbonization between Zeroboardand Long Duc Industrial Park	Vietnam	Zeroboard Inc.	Udata	Zeroboard has formed partnership with Udata, a Vietnamese company who provides IoT, energy monitoring, energy efficiency solutions for industrial buildings.
108	MOL Signs Comprehensive MoU with the Maritime and Port Authority of Singapore (MPA) on Decarbonisation, Digitalisation, and Human Resource Development	Singapore	Mitsui O.S.K. Lines, Ltd.	Maritime and Port Authority of Singapore (MPA)	Mitsui O.S.K. Lines, Ltd. (MOL) has signed a Memorandum of Understanding (MOU) with the Maritime and Port Authority of Singapore (MPA) to establish a comprehensive partnership in three key areas: decarbonization, digitalization and maritime innovation, and joint development of maritime human resources. Through the introduction and stable supply of next-generation fuels (such as ammonia) for marine use, the enhancement of port operations efficiency, and the development of maritime talent, MOL and MPA aim to realize a sustainable maritime industry based in Singapore.
109	NIKKO Co., Ltd. Aims to establish a roadmap for the widespread use of RAP and acquisition of national standard in Vietnam.	Vietnam	NIKKO Co., Ltd.	University of Transport and Communications(UTC)	Nikko Co., Ltd. Collaborate with the University of Transport and Communications(UTC) in Vietnam, with the aim of obtaining national standards for hot recycled asphalt pavement with a recycling rate of 50% to 75%.

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110	NIKKO Co., Ltd. & SAKAI HEAVY INDUSTRIES ,Ltd.:Introducing Japanese Recycled Asphalt TechnologyToward a New National Standard in Cambodia	Cambodia	NIKKO Co., Ltd. SAKAI HEAVY INDUSTRIES ,Ltd IKEE Ltd.	Ministry of Public Works and Transport of Cambodia	NIKKO Co., Ltd., SAKAI HEAVY INDUSTRIES, Ltd. and IKEE Ltd. collaborate with the Ministry of Public Works and Transport of Cambodia to establish technical partnerships for the national standardization of heated recycled asphalt mixtures.
111	Initiatives to foster a Decarbonization Market through Technical Assistance and Field Demonstration in the Philippines.	Philippines	Toa Road Corporation	R. D. Policarpio & Co., Inc.	In the Philippines, we aim to establish standards and specifications for the comprehensive adoption of decarbonization technologies, including the effective utilization of resources through recycled asphalt, the extension of pavement and bridge lifespans using modified asphalt and vegetable-based resin waterproofing materials, and vegetable-derived material technologies.
112	SAKAI HEAVY INDUSTRIES, LTD. will be actively promoting the dissemination of CAE Stabilizer Method for sustainable road maintenance.	Vietnam	SAKAI HEAVY INDUSTRIES ,Ltd	University of Transport and Communications (Ho Chi Minh City)	Sakai Heavy Industries is working with the University of Transport and Communications to promote the wider adoption of the CAE method, a roadbed recycling technique already certified under Vietnam's national standards. The initiative aims to extend pavement lifespan, reduce life-cycle costs, and lower CO_2 emissions associated with material procurement and crushed stone transportation.
113	Memorandum of Co-operation between the Ministry of Land, Infrastructure, Transport and Tourism of Japan and the Government of Malaysia on co-operation in the field of water resources management	Malaysia	Ministry of Land, Infrastructure, Transport and Tourism of Japan	Ministry of Energy Transition and Water Transformation (PETRA)	Promote discussions with Malaysia on dam operation and improvement that contribute to climate change adaptation and mitigation measures.

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114	Collaboration on sustainable development for the built environment between JTC and MLIT	Singapore	Ministry of Land, Infrastructure, Transport and Tourism of Japan	Jurong Town Corporation (JTC)	JTC of Singapore and the MLIT of Japan will share their experience and knowledge through various measures, such as regular meetings, with the aim of promoting decarbonization in the building sector.
115	ASEAN-Japan Resource Circulation Partnerships on E-Waste, ELV and Critical Minerals (ARCPEEC)	ASEAN	Ministry of Environment of Japan	ASEAN member states	Efforts are being made in ASEAN to support the collection and proper dismantling of end-of-life vehicles (ELVs) and waste electrical and electronic equipment (e-waste) through legal framework development, technical assistance, and public-private partnerships. These initiatives aim to reduce environmental pollution while promoting the circular use of metal resources, including critical minerals, through Japan's advanced refining technologies.
116	Letter of Intent between the Ministry of the Environment of Japan and the Ministry of Environment of Kingdom of Cambodia	Cambodia	Ministry of Environment of Japan	Ministry of Environment of Kingdom of Cambodia	This initiative aims to further strengthen cooperation in the field of climate change mitigation, including support for the development of the Second Biennial Transparency Report (BTR2), which includes the national greenhouse gas (GHG) inventory. By establishing such information infrastructure, the initiative will promote the formation of projects under the Joint Crediting Mechanism (JCM), thereby contributing to global decarbonization efforts.

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117	Memorandum of Cooperation between the Ministry of the Environment of Japan and the Ministry of Agriculture and Environment of the Lao People's Democratic Republic on Environment	Laos	Ministry of Environment of Japan	Ministry of Agriculture and Environment of the Lao People's Democratic Republic	On 3 September 2025, at Langkawi Island, Malaysia, the Minister of the Environment of Japan and the Minister of Agriculture and Environment of the Lao People‘s Democratic Republic signed a Memorandum of Cooperation （MoC) on Environmental Cooperation to advance bilateral cooperation on climate change and pollution prevention. To cooperate with Lao PDR on climate change and pollution prevention by harnessing Japan’s experience in addressing environmental pollution and its decarbonization technologies.
118	Strategic Program for ASEAN Climate and Environment (SPACE) 2025	ASEAN	Ministry of Environment of Japan	ASEAN member states	The Japan-ASEAN Climate and Environment Strategy Program (SPACE), launched in 2023, was revised to further advance initiatives including decarbonization. The revision was announced at the 3rd Japan-ASEAN Ministerial Dialogue on Environment and Climate Change held on September 4, 2025.