

No.	Project	Country	Japanese Company/Institution	Partner in AZEC Countries	Overview
1	Establishing the basic MRV environment to scale up GHG reduction, as well as stakeholder coordination to scale up actions on the ground	All ASEAN member	Ministry of Agriculture, Forestry and Fisheries of Japan Sagri Co., Ltd.	Food and Agriculture Organization of the United Nations (FAO)	<ul style="list-style-type: none"> Enhances capacity of ASEAN member states to implement MRV through workshops, and started feasibility studies on Sagri's MRV technologies in Vietnam and other ASEAN members. Contributes to GHG emission reductions by providing a foundation for enhanced implementation of the Paris Agreement with respect to the agricultural sector and expanding the potential for using carbon credits.
2	Dissemination of technologies that contribute to climate change mitigation and sustainable agriculture and joint research for their application in the Asia-Monsoon region	All ASEAN member	Japan International Research Center for Agricultural Sciences (JIRCAS)	Local research institutions	<ul style="list-style-type: none"> 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. Implementation of GHG emission reductions and other technologies that contribute to climate change mitigation and sustainable agriculture in the Asia-Monsoon region will be promoted.
3	Establishment of an environment for the utilization of JCM with respect to mitigation efforts in the agriculture sector	All ASEAN member	Mitsubishi UFJ Research and Consulting Co., Ltd.	Local institutions in JCM partner countries	<ul style="list-style-type: none"> Establishes an environment for the utilization of JCM in order to disseminate Japanese technologies in the Asian monsoon region.
4	Feasibility study of technologies contributing to reducing greenhouse gas emissions	All ASEAN member	Nomura Research Institute, Ltd. Oriental Consultants Global Co., Ltd.	Government institutions, research institutions and private companies	<ul style="list-style-type: none"> Implements feasibility studies of technologies contributing to the reductions of GHG emission for wider dissemination in the ASEAN region.
5	APAC-wide GHG Accounting and Carbon Offsetting Collaboration Agreement	Australia	ASUENE	Tasman Environmental Markets	<ul style="list-style-type: none"> Signed a collaboration agreement with TEM, a local Australian company, for GHG calculation and Carbon Offsetting in APAC region.
6	Hitachi Energy's HVDC technology to power Marinus Link, toward Australia's Net Zero ambitions	Australia	Hitachi Energy	Marinus Link	<ul style="list-style-type: none"> Hitachi Energy selected to supply Marinus Link Pty Ltd a high-voltage direct current (HVDC) project, which will augment the connection capacity up to 1,500MW between mainland Australia and Tasmania's grid.
7	MOU with Northern Territory focusing on Natural Gas, Hydrogen, Ammonia and CCS	Australia	JOGMEC	Northern Territory Government, Australia	<ul style="list-style-type: none"> Comprehensive MOU focusing on Natural Gas, Hydrogen, Ammonia and CCS.
8	Heads of Agreement for investment and offtake from Murchison Green Hydrogen Project in Western Australia	Australia	Sumitomo Corporation	Murchison Hydrogen Renewables Pty Ltd	<ul style="list-style-type: none"> Murchison Hydrogen Renewables Pty Ltd, an Australian subsidiary of Copenhagen Infrastructure Partners, and Sumitomo Corporation have entered into a Heads of Agreement for the investment to and offtake from Murchison green ammonia project in Western Australia.
9	Joint Study Agreement for Pre-FEED Study on e-methane production in Cooper Basin	Australia	Tokyo Gas Osaka Gas Toho Gas	Santos Ltd	<ul style="list-style-type: none"> Following the completion of Feasibility Study, Santos, Tokyo Gas, Osaka Gas Australia and Toho Gas signed the Joint Study Agreement in July 2024 to conduct Pre-FEED activities for the e-methane production (methanation) in Moomba, in the Cooper Basin.
10	The 6th ASEAN-Japan Smart Cities Network (ASCN) High-level Meeting's Document of Achievement (Smart Cities Cooperation with the ASCN)	Brunei, Vietnam, Philippines, Cambodia, Laos, Indonesia, Thailand, Malaysia, Singapore	Ministry of Land, Infrastructure, Transport and Tourism	Related government institutions	<ul style="list-style-type: none"> In the 6th Japan-ASCN High Level Meeting to be held in Tokyo at the end of October, knowledge on smart cities under the theme of "GX will be shared. The outcome of the Meeting will be presented as a document of achievement under the agreement of the participating countries. ※Not a conclusion of an MOU, but an outcome of the Meeting, which is expected to be an agreed document for this case.
11	Promotion on climate change adaption and mitigation measures through agricultural and rural development in the Asian Monsoon region	Cambodia, Laos, Vietnam	Japan Water Agency Agricultural Development Consultants Association	Local government institutions	<ul style="list-style-type: none"> Subsidized by the Ministry of Agriculture, Forestry and Fisheries, plans to start demonstrations such as AWD using ICT-based water management from this fiscal year in Cambodia, Laos and Vietnam. Contributes to GHG (methane) emission reductions from paddy fields through AWD.

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12	Collaborative Research Agreement for SATRESP in Cambodia (Establishing intermittent irrigation method)	Cambodia	Japan International Research Center for Agricultural Sciences (JIRCAS)	Royal University of Agriculture Institute of Technology of Cambodia	• Aims to establish a locally appropriate intermittent irrigation method in Cambodia, where methane emitted from rice paddies is a major source of GHG emissions, thereby contributing to the achievement of Cambodia's NDC (greenhouse gas reduction target) determined by the country itself.
13	Cooperation agreement to promote GX management with GHG calculation	Indonesia	ASUENE	Teknopro	• Signed a collaboration agreement with Teknopro, a local Indonesian company, for GHG calculation of ASUENE.
14	Digital Twin Based Assessment and Visualization of Environmental Footprint	Indonesia	Brownreverse(JGC Group)	PT PANCA AMARA UTAMA	• Brownreverse Inc.(BRS) and PT. PANCA AMARA UTAMA(PAU) aim to collaborate on the validation of "environmentally conscious maintenance" at PAU's ammonia plant using BRS's technology. This cooperation involves providing and utilizing 3D models and methane emission data to study the environmental impact.
15	Cooperation between Chubu Electric Power Co., Inc. and BP Berau Ltd. on international CCS hub & cluster model	Indonesia	Chubu Electric Power Co.	BP Berau Ltd.	• Following the successful completion of the Nagoya CCS feasibility study this year, both parties would like to further collaborate to explore a hub & cluster approach to a CCS project.
16	Memorandum on the roadmap for CCO/SAF Projects derived from non-standard coconuts with the Indonesian National Research and Innovation Agency	Indonesia	Green Power Development Corporation of Japan	Indonesian National Research and Innovation Agency Indonesian ABE Corporation	• The roadmap for establishment for a Crude Coconuts Oil (CCO) factory derived from non-standard coconuts and SAF project are developed by Indonesian National Research and Innovation Agency (BRIN), Green Power Development Corporation of Japan(GPDJ), and Indonesian ABE Corporation(ABE, a company specializing in agro and biofuel innovation, production, and sales).
17	MOU on cooperation for the CCO business for feed stock of SAFderived from Non-Standard Coconuts with the Central and Local Governments of Indonesia	Indonesia	Green Power Development Corporation of Japan	Ministry for Economic Affairs of Indonesia Government of South Sumatra IJBNet	• Green Power Development Corporation of Japan (GPDJ) and IJBNet (an Indonesian partner company) will establish a Crude Coconut Oil (CCO) plant in South Sumatra, which will be used as a feed stock for Sustainable Aviation Fuel (SAF).
18	MOU among PT PLN Indonesia Power, PT Pupuk Kujang and IHI to study green ammonia firing at Labuan Power Station	Indonesia	IHI	PT PLN Indonesia Power PT Pupuk Kujang	• To conduct a study involving the entire ammonia value chain from the supply to combustion of green ammonia, including demonstration at the Labuan coal-fired power plant ("Site").
19	MOU between PT. PLN Nusantara Power and IHI for joint study of Decarbonization Roadmap	Indonesia	IHI	PT PLN Nusantara Power	• To conduct a study and plan a decarbonization roadmap including CO2 reduction plan through ammonia/biomass combustion at the coal-fired power plant owned by PT PLN Nusantara Power ("PNP").
20	MOU among 3 companies for Feasibility Study for development of CCGT Power Plant in Indonesia	Indonesia	Itochu Corporation J-POWER	PT Adaro Power	• To achieve a future carbon-neutral and net-zero society in Indonesia, Electric Power Development Co., Ltd., PT Adaro Power, and Itochu Corporation will conduct FS to develop a Combined Cycle Gas Turbine (CCGT) power plant in Central Java, Indonesia.
21	Protocol with PT PLN (Persero)	Indonesia	Japan Bank for International Cooperation	PT. PLN	• As a subsequent document to MOU which was concluded between PLN and JBIC in November 2022, the Protocol confirms the further cooperation to achieve energy transition in Indonesia.
22	MOU between JERA and PLN EPI on LNG Value Chain Collaboration	Indonesia	JERA	PLN EPI	• To explore collaboration with PLN EPI to establish an LNG value chain as a key energy transition fuel toward the achievement of net zero emissions by 2060 in Indonesia.
23	Joint Study Agreement for Implementing Inter-Well CO2 Injection Test in Sukowati Field in Indonesia	Indonesia	JOGMEC JAPEX	PT Pertamina PT Pertamina EP	• JOGMEC, JAPEX, PT Pertamina (Persero) and PT Pertamina EP have agreed to implement an inter-well CO2 injection field test in the Sukowati oil field in East Jawa, Republic of Indonesia in FY2024
24	Joint Study Agreement for Methane emission measurement in Donggi-Matindok field and JOB Tomori field in Indonesia	Indonesia	JOGMEC	PT Pertamina PT Pertamina EP JOB Tomori	• JOGMEC and Pertamina agree to conduct joint research on methane emission measurement and carbon intensity quantification

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25	Memorandum of Cooperation between MEMR, BRIN, IFHE, and JICA for partnership towards promoting Hydrogen and Ammonia Development	Indonesia	Japan International Cooperation Agency (JICA)	MEMR BRIN IFHE	<ul style="list-style-type: none"> The Parties will strengthen their comprehensive cooperation in; (i) Research and development of policies, regulatory framework and standards on new energy (hydrogen and ammonia), (ii) Public and private stakeholder engagements for both Indonesia and Japan, (iii) Knowledge and capacity development for the latest technologies and policies, (iv) Formulation of new program/project for financing necessary infrastructures to accelerate the market creation for new energy (hydrogen & ammonia).
26	Letter of Intent between Pertamina and JICA for partnership towards promoting energy transition in Indonesia	Indonesia	Japan International Cooperation Agency (JICA)	PT Pertamina	<ul style="list-style-type: none"> The Parties will discuss and explore potential collaboration such as; (i) financing support for energy transition programs, (ii) conducting research or technical assistance for new energy (Hydrogen & Ammonia), CCS/CCUS, renewable energy, biomethane, and battery (iii) connecting technology partner and market in Japan, (iv) potential collaboration in marine & logistic sector, (v) capacity development program for energy transition, etc.
27	JDSA for a feasibility study between PT PLN Indonesia Power and JPOWER for the project to convert existing coal-fired power plant to CCGT	Indonesia	J-POWER	PLN Indonesia Power (PLN IP)	<ul style="list-style-type: none"> Joint Development Study Agreement (JDSA) is an agreement between PT PLN Indonesian Power and Electric Power Development Co.,Ltd. (JPOWER) to conduct a feasibility study for the project to convert the existing subcritical coal-fired power plant to a state-of-the-art Gas Turbine Combined Cycle that enables to reduce CO2 emissions to approximately one-third.
28	JDSA for Detail Study of Hybrid Power Plant : Solar PV + Biomass + BESS + Energy Management System in North Kalimantan	Indonesia	KYUDENKO CORPORATION	PLN Indonesia Power (PLN IP)	<ul style="list-style-type: none"> As the progress of the "MoU" on Renewable Energy Business Development" signed with Indonesia Power Company (PLN Group) in 2023, FS sponsored by NEDO to utilize renewable energy as a base power source on Nunukan Island, North Kalimantan is on going to next step (equipment demonstration).
29	Efforts Towards Decarbonization and Low-Carbon Industrial Heat Demand in Indonesia	Indonesia	LNG Japan Corporation Toho Gas Co., Ltd.	PT Bayu Buana Gemilang	<ul style="list-style-type: none"> LNG Japan Corporation and Toho Gas Co., Ltd. have invested in PT Bayu Buana Gemilang, a company that supplies industrial natural gas in Indonesia. By expanding the natural gas infrastructure, we aim to reduce carbon emissions in the industrial sector.
30	Joint Study Agreement ("JSA) for the Implementation of BECCS Project in South Sumatra, Indonesia	Indonesia	Marubeni JAPEX	PT Pertamina PT Pertamina Hulu Energi	<ul style="list-style-type: none"> To jointly conduct a feasibility study for a BECCS* project in South Sumatra, Indonesia. The project involves capture of bioenergy-derived CO2 emitted from a pulp mill operated by Marubeni, transportation and storage of the CO2 into deep saline aquifers near Limau Niru oil field
31	Memorandum of Cooperation between the MEMR of the Republic of Indonesia and the METI of Japan on the Energy Sector	Indonesia	Ministry of Economy, Trade and Industry	MEMR	<ul style="list-style-type: none"> New comprehensive cooperation in the energy sector was confirmed in both countries by replacing the MOCs with the Indonesian Ministry of Energy and Mineral Resources ((1) MOC in the Energy Sector (June 2019) and (2) MOC on Energy Transition (January 2022)).
32	Memorandum of understanding with the Ministry of Energy and Mineral Resources in the decarbonization of the energy sector	Indonesia	NEDO	MEMR	<ul style="list-style-type: none"> MOU between NEDO and MEMR (Ministry of Energy and Mineral Resources) to enhance cooperation on decarbonization efforts in the energy sector including hydrogen utilization, electrification of remote islands, and next-generation fuels.
33	PT Pertamina and NEXI sign MOU for cooperation	Indonesia	NEXI	PT Pertamina	<ul style="list-style-type: none"> Nippon Export and Investment Insurance (NEXI) and PT Pertamina, the state-owned energy company of the Republic of Indonesia, signed MOU at the timing of AZEC Ministerial Conference in December 2023. NEXI and PT Pertamina [amend/will amend] this MOU to continue further discussion on NEXI's financial support by Loan insurance.
34	PT Pertamina signs MOU with PT Pertamina Geothermal Energy	Indonesia	NEXI	Pertamina Geothermal Energy社 (PGE)	<ul style="list-style-type: none"> Nippon Export and Investment Insurance (NEXI) and PT Pertamina Geothermal Energy (PGE) [agree/will agree] to cooperate in the field of geothermal power as a part of AZEC Concept.

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35	MoU with Indonesian State-Owned and Subsidiary of Pertamina for Cooperation in Liquefied CO2 Business	Indonesia	Nippon Yusen Kabushiki Kaisha	PT PERTAMINA INTERNATIONAL SHIPPING	• PT Pertamina International Shipping, a marine logistics subsidiary of PT Pertamina (Persero) and NYK Line signed MoU to collaborate in the field of liquefied CO2 (LCO2).
36	MoU for a project which PT Santomo Biomass Indonesia supply PKS, and PT Santomo Resources Indonesia provide necessary gas to PT ATP Bio Indonesia plant in West Kalimantan	Indonesia	PT Santomo Resources Indonesia. PT Santomo Biomas Indonesia.	PT. ATP Bio Indonesia	• For PT ATP Bio Indonesia's PKS derived Bio-Cokes production, PT Santomo Biomass Indonesia provides a stable supply of PKS while PT Santomo Resources Indonesia provides the gas and other fuels.
37	MoU for the construction of a wood pellet factory planned to be built inside the sawmill area in East Java which will use the wood wastes generated directly from the sawmill	Indonesia	PT Santomo Biomass Indonesia.	PT Seng Fong Moulding Perkasa	• PT Santomo Biomass Indonesia will construct a new wood pellet factory inside PT Seng Fong Moulding Perkasa's sawmill area, thereby reducing raw material transportation costs and CO2 emissions.
38	MOU on Co-Study of EV Society	Indonesia	PT Santomo Green Power Management.	Universitas Hasanuddin	• Cooperation for both Co-Study of EV ecosystem and implementation of EV-Motorcycle, Battery Swapping Station (BSS) and Solar PV.
39	MOU between SHI & PT.PLN Nusantara Power on conversion from coal to biomass	Indonesia	Sumitomo Heavy Industries, Ltd.	PT. PLN Nusantara Power(PNP)	• The objective is to realize coal phase-out of the thermal power plants owned by PT.
40	MOU regarding cooperation to support the development of LNG and e-methane VC	Indonesia	Tokyo Gas Asia	PT PLN EPI	• PLN EPI, a PLN subsidiary that operates in fuel procurement and transportation, and Tokyo Gas Asia will advance the planning of small-scale LNG value chain throughout Indonesia, as well as the examining of decarbonization measures (e-methane).
41	Strategic Technology Partnership between PT PLN Nusantara Power ("PLN-NP") and Toshiba Energy Systems & Solutions Corporation ("TESS") for introducing Carbon Capture technology to PLN-NP power generation assets	Indonesia	Toshiba Energy Systems & Solutions Corporation	PT PLN Nusantara Power	• PLN group is establishing the de-carbonization strategy in accordance with the road map of Indonesian Government's Carbon Neutral Plan by 2060. Towards this ambitious target, PLN-NP is in the stage for seeking the opportunity to introduce de-carbonization technologies including CCUS to its own facilities in this long term energy transition period.
42	Joint Development Agreement(JDA) for Green Ammonia Initiative from Aceh(GAIA) by Pupuk Indonesia(PIHC), ITOCHU and TOYO	Indonesia	Toyo Engineering Itochu Corporation	PT Pupuk Indonesia	• Agreed to jointly develop, including basic engineering design (FEED), a project to produce green ammonia by leveraging existing ammonia plant of Pupuk Iskandar Muda(PIM) which is PIHC's subsidiary
43	MoU for Joint Study on the Opportunity of Developing Full Potential of Geothermal Energy between PT Medco Power Indonesia (MPI) and TOYO Engineering Corporation (TOYO)	Indonesia	Toyo Engineering	PT Medco Power Indonesia	• Execution of joint study on the opportunity of developing full potential of geothermal energy
44	Letter of Intent (LoI) between The Survey and Testing Center for Electricity, New, Renewable Energy and Energy Conservation of The Ministry of Energy and Mineral Resources (BBSP KEBTKE) and TOYO Engineering Corp. (TOYO)	Indonesia	Toyo Engineering	MEMR	• Joint execution between MEMR and TOYO for preparation of Geothermal Master Plan for MEMR
45	MOU for joint study and/or project development of Carbon Neutral Fuel Supply between PT Pertamina (Persero) and PT Toyota Tsusho Indonesia	Indonesia	Toyota Tsusho Indonesia	PT Pertamina	• Both build a framework for joint study and project development for green transformation ("GX"), via Carbon Neutral Fuels ("CN Fuels": biofuels (biomethane/biodiesel), electrification and green hydrogen/ammonia etc.) supply, for ① Industrial area, ②Logistics activities and ③Patimban port (incl. vessel) ("Eastern GX Corridor (EGXC)" initiative in the east of Jakarta).

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46	Memorandum of understanding on collaboration between Zeroboard (Japan) /PT. Megalopolis Manunggal Industrial Development (Indonesia) / PT KDDI INDONESIA (Indonesia) / KAMAR DAGANG DAN INDUSTRI INDONESIA (Indonesia)	Indonesia	Zeroboard	PT. Megalopolis Manunggal Industrial Development PT KDDI INDONESIA KAMAR DAGANG DAN INDUSTRI INDONESIA	<ul style="list-style-type: none"> • In industrial parks operated by MMID (60% owned by Marubeni), Zeroboard will promote GHG emission visualization for tenants using its cloud service. PT KDDI Indonesia will handle tenant inquiries about the system, and KADIN (Indonesian Chamber Of Commerce and Industry) Net Zero Hub will hold decarbonization workshops for awareness
47	The Installation and Operation of EV Chargers with the State-Owned Electric Power Company in Indonesia	Indonesia	PT Terra Charge Indonesia	PLN	<ul style="list-style-type: none"> • PLN introduces facilities that wish to install EV chargers to Terra Charge, which installs and operates EV chargers at these requested facilities. • The facilities are linked via geotagging with both PLN's charging payment app and Terra Charge's charging payment app. • As the number of EV charging stations increases, the spread of EVs is expected.
48	Development of Integrated Bio-circular Economy from Food and Energy Estate Waste Fraction to Biofuel and Bio-chemicals	Indonesia	Japan International Cooperation Agency (JICA)	National Research and Innovation Agency (BRIN)	Develop and demonstrate biofuel and bio-chemical production systems using agricultural waste and secondary wastewater in Indonesia through joint research between Japan and Indonesia (Principal Investigative Institutions: Kobe University and BRIN).
49	Collaborative Research Agreement between JIRCAS and Halu Oleo Univ, Indonesia (Strengthening the resilience of coastal ecosystems)	Indonesia	Japan International Research Center for Agricultural Sciences (JIRCAS)	Halu Oreo University	<ul style="list-style-type: none"> • Proposes measures to strengthen the resilience of the target marine area by considering it as an integrated social-ecological system in order to cope with the increasing risk of future climate change in Indonesia, which has rich coastal ecosystems with high biological diversity.
50	Greenhouse Gas (GHG) Reduction from Rice Farming in Indonesia	Indonesia	Faeger, Inc	Offset8 Capital Ltd Sawa Ecosolutions	<ul style="list-style-type: none"> • Offset8 Capital Ltd., Sawa Ecosolutions, Inc., and Faeger, Inc, have signed a tripartite MOU to introduce AWD (Alternate Wetting and Drying) know-how for rice farming, reducing GHG emissions.
51	SUGAWARA INDUSTRY Co.,Ltd. cooperate to disseminate Asphalt Reclamation technology in Indonesia	Indonesia	SUGAWARA Industry Co., Ltd.	Ministry of Public Works and Housing (MPWH)	<ul style="list-style-type: none"> • In order to disseminate the adoption of asphalt reclamation technology in Indonesia, SUGAWARA INDUSPRY Co., Ltd will explore the introduction of relevant rules, regulations and manuals, and the demonstration to verify economic feasibility, etc. • The utilization of asphalt reclamation technology not only reduces GHG emissions from material procurement (transportation of aggregates, etc.), but also promotes resource circulation and leads to sustainable pavement maintenance.
52	Letter of Intent between The Ministry of the Environment of Japan and ·The Ministry of Industry of The Republic of Indonesia	Indonesia	The Ministry of Environment, Japan	The Ministry of Industry of The Republic of Indonesia	<ul style="list-style-type: none"> • Development of a decarbonization roadmap for the cement sector by using the Asia-Pacific Integrated Model (AIM) and exchange views and information on technological options for decarbonization in the cement sector.

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53	Implementation arrangement between the Ministry of Environment of Japan and The Ministry of Environment and Forestry of the Indonesia on feasibility study on a large-scale waste treatment facility in Bekasi, Karawang, and Purwakarta area	Indonesia	The Ministry of Environment, Japan	The Ministry of Environment and Forestry of the Indonesia(KLHK)	<ul style="list-style-type: none"> • In 2020, in response to the request from West Java Province, the Bekarpur region was selected as a subsequent project of Waste-to-Energy project of Legok Nangka to improve the environment around the Citarum River. MOEJ conducted a PPP feasibility study (OBC: Outline Business Case) • In April 2024, Implementation Arrangement (IA) was signed between MOEJ and KLHK(The Ministry of Environment and Forestry), according to which MOEJ has been conducting a value chain survey. • Transition to the PDF process (FBC : Final Business Case and TA: Transaction Advisory) is expected.
54	MoU on education, research etc. related to decarbonization between Nippon Koei and Riau University	Indonesia	Nippon Koei Co., Ltd.	Riau University, Indonesia	<ul style="list-style-type: none"> • Nippon Koei Co., Ltd. and Riau University cooperate academically and technologically to decarbonize Riau Province. Based on this MOU, a Memorandum of Agreement (MOA) has already been signed with the Faculty of Engineering and the Faculty of Agriculture, respectively.
55	Agreement between the Amita Group and a local company to establish two joint ventures for 100% recycling business	Indonesia	Amita Holdings Co., Ltd.	PT Tamaris Prima Energi PT Sari Bhakti Sejati	<ul style="list-style-type: none"> • AMITA Group has established a joint venture, "PT Amita Tamaris Lestari (hereinafter, JV1)," with PT Tamaris Prima Energi, a subsidiary of the Salim Group, one of Southeast Asia's largest conglomerates engaged in renewable energy and water supply businesses (September 2024). • Additionally, JV1 is set to establish another joint venture, "PT Amita Prakarsa Hijau (hereinafter, JV2)," with PT Sari Bhakti Sejati, a subsidiary of Indonesia's major cement company PT Indocement Tunggul Prakarsa Tbk., to conduct 100% recycling operations locally (October 2024).
56	Updated MoC between the Ministry of the Environment of Japan and the Ministry of Environment and Forestry in Indonesia	Indonesia	The Ministry of Environment, Japan	The Ministry of Environment and Forestry of the Indonesia(KLHK)	<ul style="list-style-type: none"> • Peatland restoration and management was added in the areas of cooperation in Memorandum of Cooperation (MOC) between Ministry of the Environment Japan (MOEJ) and Ministry of Environment and Forestry (KLHK) on Aug. 2024. Implementing arrangement (PKS) was signed by Sumitomo Forestry Indonesia, KLHK and Peatland and Mangrove Restoration Agency (BRGM) on Aug. 2024.
57	Implementing arrangement of the Peatland management project in Central Kalimantan	Indonesia	PT. Sumitomo Forestry Indonesia	<ul style="list-style-type: none"> • The Ministry of Environment and Forestry of the Indonesia(KLHK) • Peatland and Mangrove Restoration Agency (BRGM) 	<ul style="list-style-type: none"> • Sumitomo Forestry plans regional development including peatland restoration, afforestation and surrounding infrastructure development in the Mega Rice Project site in Central Kalimantan. Utilizing the company's peatland groundwater level adjustment technology, the company aims to prevent peatland fires within the project site and reduce CO2 emissions caused by drying, thereby generating carbon credits and securing profits in the future.
58	MoU between Hasanuddin University and PT Santomo Green Power Management Corp. on Electric Motorbikes and Solar Power	Indonesia	PT. Santomo Green Power Management Corp.	Hasanuddin University	<ul style="list-style-type: none"> • The project aims to establish a next-generation EV ecosystem for the use of electric bikes, battery swapping systems, and solar power generation, and includes the installation of battery swapping stations in university campuses, provision of electric bikes, workshops and training sessions on electric bikes and solar power generation, and discussions on the use of solar power generation for EV charging.
59	Introducing agroforestry practices in coffee production that contribute to increasing profitability of local farmers while preventing deforestation	Laos and other ASEAN member	Sakanotochu Ltd.	UN World Food Programme (WFP)	<ul style="list-style-type: none"> • Promotes dissemination of coffee cultivation practice where coffee trees are planted between trees in forests and demonstration of utilization of biochar within the cultivation system in Laos. • Contributes to GHG emission reductions arising from deforestation and soil carbon sequestration through biochar application.
60	ESG Promotion Collaboration in Sarawak, Malaysia	Malaysia	ASUENE	Dasar Consulting Sdn	<ul style="list-style-type: none"> • Memorandum of Understanding between Dasar Consulting, a local Malaysian company, and ASUENE to promote ESG and GHG accounting by local companies in Sarawak, Malaysia.

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61	Cooperation agreement on support for ESG management of local companies	Malaysia	ASUENE	Mitsusho	<ul style="list-style-type: none"> • Signed a collaboration agreement with Mitsusho, a local Malaysian company, for GHG calculation of ASUENE.
62	Collaboration agreements in decarbonization solutions	Malaysia	ASUENE	Maqo Solar	<ul style="list-style-type: none"> • Signed a collaboration agreement with Maqo Solar, a local Malaysian company, for GHG calculation of ASUENE.
63	Collaboration to Accelerate Development of Sustainable Aviation Fuel for the Aviation Industry	Malaysia	Idemitsu International	Petronas	<ul style="list-style-type: none"> • To enhance capabilities across the supply chain and optimise the route to market for Sustainable Aviation Fuel (SAF) to producing lower carbon energy solutions for customers worldwide.
64	Evaluation and exploration of climate abatement projects within and outside Malaysia	Malaysia	Idemitsu International (Asia)	PETCO TRADING LABUAN COMPANY LTD	<ul style="list-style-type: none"> • Idemitsu International (Asia) and PETCO Trading Labuan Company will collaborate to evaluate and explore climate abatement projects, focusing on carbon credits and sustainable products, to address sectorial emissions within and outside Malaysia.
65	JAPEX, JGC, and "K" LINE Sign a Storage Site Agreement (SSA) with PETRONAS and PETROS for the CCS Project in Malaysia	Malaysia	JAPEX JGC K-Line	PETRONAS CCS Ventures (PCCSV) PETROS	<ul style="list-style-type: none"> • The Japanese consortium comprising JAPEX, JGC Holdings, and Kawasaki Kisen Kaisha (K-Line) is exploring a project in the offshore region of Sarawak, Malaysia, in collaboration with PETRONAS CCS Ventures (PCCSV). SSA was signed with PETROS, the CCUS Resource Manager for Sarawak, to evaluate the depleted M3 gas field as a potential storage site.
66	Memorandum of Understanding (MOU) for Feasibility Study on e-methane production in Sarawak, Malaysia	Malaysia	Sumitomo Corporation Tokyo Gas	PPETRONAS Global Technical Solutions Sdn. Bhd.	<ul style="list-style-type: none"> • PETRONAS Global Technical Solutions Sdn. Bhd., Tokyo Gas and Sumitomo Corporation signed MOU to jointly conduct the Feasibility Study on the e-methane production (methanation) in Sarawak, Malaysia.
67	MOU for Energy Transition in State of Sarawak between Sarawak Invest and Toyo Engineering Corporation	Malaysia	Toyo Engineering	InvestSarawak	<ul style="list-style-type: none"> • In order to achieve carbon neutrality in the state of Sarawak, Malaysia, Invest Sarawak and Toyo Engineering Corporation discuss collaboration way for energy transition in the state.
68	International Tropical Timber Organization (ITTO) Project "Promoting Sustainable Wood Use for Domestic Market in Malaysia"	Malaysia	Forestry Agency of Japan	International Tropical Timber Organization (ITTO)	<ul style="list-style-type: none"> • Started the project promoting sustainable wood use in Malaysia for the stabilization of the domestic timber industry. • Contributes to GHG sequestration through sustainable wood use.
69	Collaborative Research Agreement between JIRCAS and Malaya University, Malaysia (Developing sustainable tropical forest management practices)	Malaysia	Japan International Research Center for Agricultural Sciences (JIRCAS)	Malaya University	<ul style="list-style-type: none"> • Develops 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.
70	Letter of Intent on the Collaboration of Sustainable Timber Construction	Malaysia	Institute for Global Environmental Strategies, Takasago Construction Corp. Saitama City	The Universiti Teknologi Malaysia	<ul style="list-style-type: none"> • The Universiti Teknologi Malaysia, Institute for Global Environmental Strategies, Takasago Construction Co. and Saitama City, have agreed to collaborate in sharing information and knowledge and to consider the feasibility of disseminating timber building constructions in Malaysia and its neighboring countries. • While highly airtight and well-insulated timber houses in Japan are known for their energy saving capacity and as agents to fixate CO2 emissions, timber is not commonly used in buildings in Malaysia. We aim to find solutions to change the existing environment through collaboration between the public, private, and academic sectors. • Saitama city's experience with eco-friendly and healthy smart home communities, if combined with the rich knowledge in Malaysia, could serve as a stepping stop for Malaysia to transition to a carbon neutral society.
71	MOU for AZEC promotion in the Philippines	Philippines	Japan Bank for International Cooperation	San Miguel	<ul style="list-style-type: none"> • JBIC signed MOU with San Miguel, to find cooperative projects that involves Japanese business in the certain fields stipulated below. • JBIC has already signed MOU with AboitizPower and MPIC for the same purpose.

No.	Project	Country	Japanese Company/Institution	Partner in AZEC Countries	Overview
72	Mizuho Bank and Ayala Group: Financial / Non-financial Assistance to Decarbonization	Philippines	Mizuho Bank	Ayala Group	<ul style="list-style-type: none"> Mizuho is providing financial and non-financial services to Ayala Group, one of Philippines' leading conglomerates, to assist Ayala in advancing its group-wide net zero greenhouse gas initiatives; Mizuho is involved in assisting: i) Ayala Corporations in improving its ESG rating scores through enhanced disclosure of its strengthening ESG strategies, ii) Bank of the Philippine Islands in strengthening its ESG initiatives by further collaboration, iii) Globe Telecom in establishing its sustainability financing framework, and iv) ACEN with expanding its renewable energy portfolio through financing activities.
73	MOU regarding the generation of carbon credits through mangrove forest restoration in the Philippines	Philippines	Green Carbon,inc.	Municipality of San Benito	<ul style="list-style-type: none"> Collaborate on a mangrove reforestation project aimed at reducing GHG emissions caused by deforestation and natural disasters in the past. Create carbon credits through mangrove reforestation.
74	MOU regarding the generation of carbon credits from rice paddy fields in the Philippines	Philippines	Green Carbon,inc.	University of the Philippines	<ul style="list-style-type: none"> Conduct joint research aimed at reducing methane emissions in rice farming. Contribute to carbon neutrality in the Philippines.
75	MOU with the Government of the Philippines	Philippines	Japan Bank for International Cooperation	the Government of the Philippines	<ul style="list-style-type: none"> JBIC will sign MOU with the Government of the Philippines, to enhance projects which contribute to the decarbonization, infrastructure resilience, and connectivity enhancement in the Philippines.
76	MoU between Zip Infrastructure & BCDA - Cooperation of transportation development-	Philippines	Zip Infrastructure, Inc.	BCDA (Bases Conversion and Development Authority)	<ul style="list-style-type: none"> Conduct study and discussions for the demonstration implementation of Zippar within BCDA's premises Zip Infrastructure provides support for conducting a feasibility study (F/S) on the introduction of Zippar in Camp John Hay, Baguio City. Zippar is a next-generation transportation system with superior convenience, safety, and economy, and is expected to have a decarbonization effect through modal shift.
77	Project to support the establishment of sustainable food systems with ADB (Development of the draft Methodology)	Philippines and other ASEAN member	Ministry of Agriculture, Forestry and Fisheries of Japan Ministry of the Environment of Japan Japan International Research Centre for Agricultural Sciences (JIRCAS) National Agriculture and Food Research Organization (NARO) Green Carbon Inc. Creattura Co., Ltd. Fager Co., Ltd.	Asian Development Bank (ADB) International Rice Research Institute (IRRI) Department of Agriculture in the Philippines Ministry of Agriculture and Rural Development in Vietnam Japan-ASEAN Integration Fund (JAIF)	<ul style="list-style-type: none"> The JCM methodology for AWD in the Philippines was developed and published. It will then be approved by the Joint Committee, and the development will be disseminated to other countries. The development of projects combining JCM and AWD contributes to reducing GHG (methane) emissions from paddy fields and increasing farmers' incomes.
78	Development of rice cropping systems toward carbon neutrality and food security in ASEAN countries	Philippines, Vietnam	Ministry of Agriculture, Forestry and Fisheries of Japan	CGIAR	<ul style="list-style-type: none"> Low-carbon crop management practices and cropping systems will be developed with the long-term goal of achieving carbon neutrality while also ensuring food security.
79	Collaborative Research Agreement between JIRCAS and PhilRice (Developing GHG reduction technologies)	Philippines	Japan International Research Center for Agricultural Sciences (JIRCAS)	Philippine Rice Research Institute	<ul style="list-style-type: none"> Develops GHG reduction technologies by combining Filipino rice varieties and water management.
80	MOU between JIRCAS and BSWM, Philippines (Developing and implementing technologies such as soil carbon sequestration)	Philippines	Japan International Research Center for Agricultural Sciences (JIRCAS)	Bureau of Soils and Water Management, Department of Agriculture of Philippines	<ul style="list-style-type: none"> Develops and implements 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, targeting Philippines which is vulnerable to extreme weather events.

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81	Memorandum of cooperation between the Ministry of the Environment of Japan and the Department of Environment and Natural resources of the Republic of the Philippines in the field of environmental protection	Philippines	The Ministry of Environment, Japan	The Department of Environment and Natural resources of the Republic of the Philippines	<ul style="list-style-type: none"> The MOU covers a wide range of areas, including climate change, plastic pollution, and biodiversity conservation. Signed in December 2023 in the Commemorative Summit for the 50th Year of ASEAN-Japan Friendship and Cooperation, with the presence of leaders of both countries.
82	Memorandum of understanding on developing low/zero-carbon city in cooperation between quezon city and osaka city	Philippines	Osaka City	quezon city, Philippines	<ul style="list-style-type: none"> The project will promote public-private partnership in areas of climate change and environmental sustainability, as well as information sharing and capacity building on knowledge and policies to create a low/zero-carbon city in Quezon City.
83	Business cooperation agreement on ESG management support for SMEs	Singapore	ASUENE	Singapore Manufacturing Federation	<ul style="list-style-type: none"> Signing agreements to co-operate with Singapore Manufacturing Federation for GHG accounting support.
84	Carbon Capture Storage(CCS) between METI and	Singapore	Ministry of Economy, Trade and Industry	MTI	<ul style="list-style-type: none"> To promote bilateral cooperation on CCS through exchanging information on best practices and existing rules for cross border CCS, exchanging insights on CCS technologies as well as facilitating partnerships amongst universities and research institutions across both countries.
85	MOU between Maritime and Port Authority of Singapore and NYK Line to advance maritime sustainability	Singapore	Nippon Yusen Kabushiki Kaisha	Maritime & Port Authority of Singapore	<ul style="list-style-type: none"> MPA and NYK signed MOU to deepen partnership to materialize sustainable maritime industry .
86	Agreement to collaborate on promoting GHG accounting for local companies	Thailand	ASUENE	Green Frog Innobation	<ul style="list-style-type: none"> Signed a collaboration agreement with Green Frog Innovation,a local company in Thailand, for GHG calculation of ASUENE.
87	MOU between EGAT and IHI on collaboration for biomass fuel production and utilization	Thailand	IHI	Electricity Generating Authority of Thailand	<ul style="list-style-type: none"> Joint study for biomass fuel production and combustion demonstration at the biggest thermal power station in Thailand named Mae Moh Power Plant, which is owned by EGAT.
88	RD for THE PROJECT FOR PROMOTION OF ENERGY EFFICIENCY BY INTRODUCING ZERO ENERGY BUILDING (ZEB)/ZERO ENERGY HOUSE (ZEH) AND HEAT PUMPS IN THAILAND between JICA and DEDE	Thailand	Japan International Cooperation Agency (JICA)	DEDE (Department of Alternative Energy Development and Efficiency)	<ul style="list-style-type: none"> Aims to strengthen the C/P's capacity to promote energy conservation and improve energy efficiency in the industrial, commercial and residential sectors by deepening knowledge and understanding of ZEB (Zero Energy Building)/ZEH (Zero Energy House) and heat pumps
89	MOU on Gas Turbine Hydrogen Co-firing Technology between EGAT and Mitsubishi Heavy Industries, Ltd.	Thailand	Mitsubishi Heavy Industries, Ltd.	Electricity Generating Authority of Thailand	<ul style="list-style-type: none"> To accelerating decarbonization of energy in Thailand, EGAT, state-owned electricity company in Thailand, and Mitsubishi Heavy Industries, Ltd. commence discussions on study for introducing hydrogen co-firing technologies at power plants owned and operated by EGAT.
90	LOI agreement regarding cooperation in Home IoT demonstration research with DEDE, Ministry of Energy of Thailand	Thailand	NEDO	DEDE (Department of Alternative Energy Development and Efficiency)	<ul style="list-style-type: none"> An LOI agreement between NEDO and DEDE (Department of Alternative Energy Development and Efficiency), Ministry of Energy of the Kingdom of Thailand regarding cooperation on "demonstration for the development of thermal control HomeIoT system and living space design technology for Thai homes".
91	Comprehensive LOI agreement with the Ministry of Energy of Thailand	Thailand	NEDO	Ministry of Energy of the Kingdom of Thailand	<ul style="list-style-type: none"> NEDO agreed comprehensive LOI agreement with the Ministry of Energy of the Kingdom of Thailand regarding cooperation in the fields of energy conservation, alternative energy, and decarbonized environment-related technology.
92	Zeroboard /Banpu NEXT MOU	Thailand	Zeroboard	Banpu NEXT Co., Ltd.	<ul style="list-style-type: none"> Zeroboard, provider of a cloud service for calculating and visualizing GHG emissions, has formed a business alliance with Banpu NEXT, a smart energy solutions provider under Banpu group.
93	Zeroboard / FDI Group MOU	Thailand	Zeroboard	FDI Group	<ul style="list-style-type: none"> Zeroboard, provider of a cloud service for calculating and visualizing GHG emissions,has formed a business alliance with FDI group, which provides ESG consulting service to companies.

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94	Partnership with a Major Real Estate Developer in Thailand for EV Infrastructure	Thailand	Terra Charge Thailand Co., Ltd.	LPN	<ul style="list-style-type: none"> LPN introduces parking spaces for the installation of EV chargers to Terra Charge, which installs and operates EV chargers in those parking spaces. As the number of EV charging stations increases, the spread of EVs is expected.
95	MOUs regarding the generation of carbon credits from biochar in Thailand	Thailand	Green Carbon,inc.	The Siam Cement Group Public Company Ltd. (SCG)	<ul style="list-style-type: none"> Create carbon credits through the production and utilization of biochar. Utilize biochar as an additive in cement.
96			Green Carbon,inc.	Rubber Authority of Thailand (RAOT)	<ul style="list-style-type: none"> Create carbon credits through the production and utilization of biochar. Produce biochar from rubber trees, which are felled after latex extraction and managed by RAOT, and apply it to the soil of rubber plantations.
97	Contributing to the reduction of fertilizers through automatic plotting technology and soil diagnosis of farmland using satellite data	Thailand and other ASEAN member	Sagri Co., Ltd.	Government institutions, private companies, agricultural cooperatives, and research institutes of Thailand and the other ASEAN members	<ul style="list-style-type: none"> Implemented automatic farmland borders plotting and soil conditions diagnosis by using satellite images in Thailand, and plans to conduct demonstrations in Philippines and other countries. Contributes to GHG emission reductions from fertilizers through reducing their application.
98	Contributing to increase of productivity and reduction of working hours through auto steering system	Thailand and other ASEAN member	TOPCON CORPORATION	Ministry of Agriculture and Cooperatives of the Kingdom of Thailand	<ul style="list-style-type: none"> Conducted demonstration of auto steering system of tractors on paddy fields in Thailand, and continues the demonstration in sugarcane fields in Thailand. Contributes to GHG emission reductions from fossil fuel through efficient operation of tractors.
99	Cooperation in APO-COE program (Providing Climate-smart Agriculture technologies)	Thailand and other APO member	National Agriculture and Food Research Organization (NARO)	Ministry of Agriculture and Cooperatives of the Kingdom of Thailand	<ul style="list-style-type: none"> Provides Climate-smart Agriculture technologies developed by NARO in Asian Productivity Organization (APO)'s Center of Excellence program. Contributes to APO members' improvement of agricultural productivity and the reductions of GHG emission.
100	Memorandum of cooperation between The Ministry of the Environment of Japan and the Ministry of Natural resources and Environment of the Kingdom of Thailand on environmental cooperation	Thailand	The Ministry of Environment, Japan	The Ministry of Natural resources and Environment of the Kingdom of Thailand	<ul style="list-style-type: none"> The Memorandum of Cooperation (MOC) was renewed at the occasion of the 4th Policy Dialogue held in Bangkok, Thailand early July this year. Areas of cooperation include measures against climate change and waste management.
101	Memorandum of Cooperation on the Joint Crediting Mechanism between the Government of Japan and the Government of the Kingdom of Thailand	Thailand	The Ministry of Environment, Japan	The Ministry of Natural resources and Environment of the Kingdom of Thailand	<ul style="list-style-type: none"> A new Memorandum of Cooperation to implement the JCM consistent with the guidance on cooperative approaches referred to in Article 6.2 of the Paris Agreement and Thailand's domestic policies.
102	MOU on Partnership for Carbon Credit Business Development in Vietnam	Vietnam	ASUENE	FPT Vietnam Carbon EX	<ul style="list-style-type: none"> Memorandum of Understanding between FPT Vietnam and Carbon EX for partnership in the supply and sale of carbon credits.
103	Marubeni-Vin Fast MOU to Repurpose Used EV Batteries in Circular Economy	Vietnam	Marubeni	VinFast	<ul style="list-style-type: none"> To conduct a demonstration of battery energy storage systems with used VinFast's EV batteries and a collaboration in the creation of businesses with used EV batteries in circular economy.
104	MOU for decarbonization/energy management cooperation among Sumitomo Corporation (SC), Thang Long Industrial Park (TLIP), North Hanoi Smart City (NHSC) and BRG Group	Vietnam	Sumitomo Corporation	BRG Group. Thang Long Industrial Park Corporation. North Hanoi Smart City Development Investment JSC.	<ul style="list-style-type: none"> To promote decarbonization in industrial parks & townships through various measures: (a) by expanding renewable energy supply in TLIP, where Japanese manufacturers are concentrated and in NHSC, which is being developed as a Japan-Vietnam flagship project; (b) by implementing broad energy management between the two projects and (c) by introducing energy-saving solutions.
105	Strategic partnership for accelerate green energy development in Vietnam	Vietnam	Sustech	Sun Group	<ul style="list-style-type: none"> Utilizing Sustech's decentralized energy management platform "ELIC", this initiative aims to achieve expansion of renewable energy, decarbonization of the entire region while ensuring stable energy supply in the development of Van Phong Economic Zone led by Sun Group.

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106	MOU for Development of Nearshore Wind Power Project in Tra Vinh Province by TTVN, TTP and Tokyo Gas	Vietnam	Tokyo Gas	Truong Thanh Viet Nam Group ("TTVN") Truong Thanh Energy("TTP")	<ul style="list-style-type: none"> Truong Thanh Viet Nam Group("TTVN"), Truong Thanh Energy("TTP"), and Tokyo Gas agree to cooperate on the development of a nearshore wind power project (total capacity: 48MW) in Tra Vinh Province, Vietnam.
107	Zeroboard (Japan) / New Land Vietnam Japan Long An(Vietnam) MOU	Vietnam	Zeroboard	New Land Vietnam Japan Long An	<ul style="list-style-type: none"> Zeroboard and NLVJLA (New Land Vietnam Japan Long An), a group company of Sojitz Corporation, have entered into a partnership to provide decarbonization management support to their suppliers in the company's supplier chain.
108	MOUs regarding the generation of carbon credits from rice paddy fields in Vietnam	Vietnam	Green Carbon,inc.	Vietnam National University of Agriculture (VNUA)	<ul style="list-style-type: none"> Collaborate to reduce GHG emissions in rice farming and improve farmers' livelihoods. Support the introduction of AWD, a method to reduce methane emissions in rice paddies, to each farmer (in collaboration with VNUA) and create carbon credits (in collaboration with ASINCV). Aim to increase farmers' income by branding the rice produced in AWD-implemented regions as eco-friendly and purchasing it at a high price (in collaboration with INTAD).
109			Green Carbon,inc.	Agricultural Science Institute for Southern Coastal Central of Vietnam (ASISOV)	
110			Green Carbon,inc.	INTAD Co.,Ltd. (INTAD)	
111	Supporting transmission infrastructure development through credit line to VPBank	Vietnam	Japan Bank for International Cooperation	VP Bank	<ul style="list-style-type: none"> JBIC provides a credit line to Vietnam Prosperity Joint Stock Commercial Bank (VPBank), a Vietnamese commercial bank, to support the development of the power transmission network, which is essential for the introduction of renewable energy and a stable supply of electricity in Vietnam.
112	Reducing GHG originating from livestock sector through optimized feeding by introducing livestock information management system	Vietnam	Eco-Pork co., ltd.	Local farmers	<ul style="list-style-type: none"> Demonstrated livestock information management system in Vietnam, obtained good outcome with respect to livestock productivity in a pig farm in Vietnam. Exploring further verification of the effects of the livestock information system on GHG emissions.
113	Memorandum of Cooperation between the Forestry Agency, Japan and the Department of Forestry, Viet Nam in the field of forests and forestry (MOC)	Vietnam	Forestry Agency of Japan	Department of Forestry of Viet Nam	<ul style="list-style-type: none"> Signed MOC for promoting bilateral cooperation in the field of forests and forestry. Contributes to promoting further cooperation between the two countries in the areas of such as sustainable forest management and climate change mitigation and adaptation measures.
114	Collaborative Research Agreement between JIRCAS and CLRRI (GHG reduction by combining rice varieties and water management)	Vietnam	Japan International Research Center for Agricultural Sciences (JIRCAS)	Cuu Long Delta Rice Research Institute	<ul style="list-style-type: none"> Develops GHG reduction technologies by combining Vietnamese rice varieties and water management.
115	Support for development of the national technical standards for port and harbour facilities	Vietnam	Ports and Harbours Bureau, Ministry of Land, Infrastructure, Transport and Tourism National Institute for Land and Infrastructure Management	Department of science and technology, Ministry of Transport Institute of Transport Science and Technology Vietnam Maritime Administration	<ul style="list-style-type: none"> Cooperation in the development of the national technical standards for port and harbour facilities in Vietnam is underway based on a memorandum of cooperation signed between Japan and Vietnam in 2014, with the aim of creating an environment that supports the overseas expansion of Japanese companies. Climate change and decarbonization took into MOC as new cooperation areas when MOC was renewed in September 2024.
116	Taisei Rotec Corporation prepares for full-scale field testing to obtain Vietnamese national standards for highly recycled asphalt mixtures	Vietnam	Taisei Rotec Corporation	Institute of Transport Science and Technology (ITST)	<ul style="list-style-type: none"> Taisei Rotec Corporation are working to prepare for full-scale field testing as early as possible in order to establish basic and national standards for asphalt mixtures with a recycled content rate of 50% or more. The utilization of asphalt reclamation technology not only reduces GHG emissions from material procurement (transportation of aggregates, etc.), but also promotes resource circulation and leads to sustainable pavement maintenance.

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117	MoU on Cooperation for Green Growth between Kobe City, Japan and Dong Nai Province	Vietnam	Kobe City, Japan	Dong Nai Province, Vietnam	<ul style="list-style-type: none"> In September 2024, Kobe City and Dong Nai Province signed a MoU on cooperation for achieving Green Growth in Dong Nai Province. The fields of cooperation are “city-to-city cooperation on green growth in industrial parks and urban areas”, “support for private companies in the formation of green and smart industrial parks”, and “information exchange, holding of seminars and business matching, etc.”.
118	Agreement on expanding the scope of cooperation in promoting Solar Sharing between Agritree Corp. and VNUA	Vietnam	Agritree Co., Ltd.	Vietnam National University of Agriculture (VNUA)	<ul style="list-style-type: none"> This agreement between Agritree Corp. and Vietnam National University of Agriculture (VNUA) involves the mutual provision of technology, human resources, locations, and knowledge necessary for the pilot project of solar sharing.
119	MOU between Khanh Hoa Province and Sumitomo Corporation for promotion of foreign investment in Khanh Hoa Province including LNG to Power Project	Vietnam	Sumitomo Corporation	People's Committee of Khanh Hoa Provincial	<ul style="list-style-type: none"> People's Committee of Khanh Hoa Provincial and Sumitomo Corporation agree to establish a task force team to promote foreign investment activities in Khanh Hoa Province.
120	MOU for Vietnam-Singapore Link	N.A.	Japan Interconnector	Frontier Power Singapore Enterprize Energy Pte. Verdana	<ul style="list-style-type: none"> Co-development of a 2 GW HVDC subsea power cable to export power from Thang Long offshore wind farm from Vietnam across 1,150km to Singapore. MOU is executed to advance the project towards construction by conducting technical, commercial and financial feasibility studies.
121	MOC among METI, ADB, and ERIA on Technology and Transition Finance for Practical Energy Transition in Asia	International Organizations	Ministry of Economy, Trade and Industry	ADB ERIA	<ul style="list-style-type: none"> The MOC is to confirm the future collaboration among METI, ADB, and ERIA on technology and transition finance for whole-of-economy transitions in Asia including the energy sector.