

List of JCM Financing Programme by MOEJ (FY2013~2021) as of September 29, 2022

No	Year	Partner Country	Type	Representative Participant	Project Name	Sector	Estimated GHG Reduction (tCO2/year)
1	2013	Indonesia	JCM Model Project	EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.	Energy Saving for Air-conditioning and Process Cooling at Textile Factory 1	Energy Efficiency Improvement	117
2	2013	Indonesia	JCM Model Project	Lawson, Inc.	Installation of Inverter-type Air Conditioning System LED Lighting and Separate Type Fridge Showcase to Grocery Stores in Republic of Indonesia	Energy Efficiency Improvement	141
3	2013	Indonesia	JCM Model Project	Mayekawa Manufacturing Co., Ltd.	Energy Efficient Refrigerants to Cold Chain Industry	Energy Efficiency Improvement	165
4	2013	Indonesia	JCM Model Project	Toyota Tsusho Corporation	Energy Saving by Installation of Double Bundle-type Heat Pump	Energy Efficiency Improvement	175
5	2013	Indonesia	JCM Model Project	EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.	Energy Saving for Air-conditioning and Process Cooling at Textile Factory 2	Energy Efficiency Improvement	152
6	2013	Mongolia	JCM Model Project	SUURI-KEIKAKU Co., Ltd.	Upgrading and Installation of Centralized Control System of High-efficiency Heat Only Boiler (HOB)	Energy Efficiency Improvement	298
7	2013	Palau	JCM Model Project	Pacific Consultants Co., Ltd.	Small-Scale Solar Power Plant for Commercial Facilities in Island States	Renewable Energy	259
8	2014	Indonesia	JCM Model Project	JFE Engineering Corporation	Power Generation by Waste-heat Recovery in Cement Industry	Effective Use of Energy	149,063
9	2014	Indonesia	JCM Model Project	Itochu Corporation	Installation of Solar Power System and Storage Battery to Commercial Facility	Renewable Energy	260
10	2014	Indonesia	JCM Model Project	Toyotsu Machinery Corporation	Energy Saving through Introduction of Regenerative Burners to the Aluminum Holding Furnace of the Automotive Components Manufacturer	Energy Efficiency Improvement	98
11	2014	Indonesia	JCM Model Project	EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.	Energy Saving for Textile Factory Facility Cooling by High Efficiency Centrifugal Chiller	Energy Efficiency Improvement	205
12	2014	Vietnam	JCM Model Project	Nippon Express Co., LTD.	Eco-Driving by Utilizing Digital Tachograph System	Transport	324
13	2014	Maldives	JCM Model Project	Pacific Consultants Co., Ltd.	Solar Power on Rooftop of School Building Project	Renewable Energy	156
14	2014	Bangladesh	JCM Model Project	EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.	Energy saving for air conditioning & facility cooling by high-efficiency centrifugal chiller (Suburbs of Dhaka)	Energy Efficiency Improvement	107
15	2014	Indonesia	JCM Model Project	KANEMATSU CORPORATION	Introduction of high efficient Old Corrugated Cartons Process at Paper Factory	Energy Efficiency Improvement	19,011
16	2014	Indonesia	JCM Model Project	Toray Industries, Inc.	Reducing GHG emission at textile factories by upgrading to air-saving loom	Energy Efficiency Improvement	742
17	2014	Palau	JCM Model Project	Pacific Consultants Co., Ltd.	Small-Scale Solar Power Plants for Commercial Facilities Project II	Renewable Energy	320
18	2014	Palau	JCM Model Project	Pacific Consultants Co., Ltd.	Solar PV System for Schools Project	Renewable Energy	111
19	2014	Vietnam	JCM Model Project	Yuko Keiso Co., Ltd.	Introduction of Amorphous high efficiency transformers in power distribution systems	Energy Efficiency Improvement	610
20	2014	Maldives	ADB	Addu Atoll Electric Power Corporation	Smart Micro Grid System at Addu Atoll	Renewable Energy	3,958
21	2015	Indonesia	JCM Model Project	NTT FACILITIES, INC.	Energy Saving for Air-Conditioning at Shopping Mall with High Efficiency Centrifugal Chiller	Energy Efficiency Improvement	398
22	2015	Indonesia	JCM Model Project	NTT FACILITIES, INC.	Energy Saving for Industrial Park with Smart LED Street Lighting System	Energy Efficiency Improvement	543
23	2015	Indonesia	JCM Model Project	Mitsubishi Chemical Corporation	Introduction of High Efficiency Once-through Boiler System in Film Factory	Energy Efficiency Improvement	816
24	2015	Cambodia	JCM Model Project	MinebeaMitsumi Inc.	Introduction of High Efficiency LED Lighting Utilizing Wireless Network	Energy Efficiency Improvement	559
25	2015	Bangladesh	JCM Model Project	Toyota Tsusho Corporation	Installation of High Efficiency Loom at Weaving Factory	Energy Efficiency Improvement	437
26	2015	Bangladesh	JCM Model Project	YKK Corporation	Introduction of PV-diesel Hybrid System at Fastening Manufacturing Plant	Renewable Energy	226
27	2015	Vietnam	JCM Model Project	NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.	Introduction of High Efficiency Air-conditioning in Hotel	Energy Efficiency Improvement	935
28	2015	Vietnam	JCM Model Project	Ricoh Company, Ltd.	Introduction of Energy-Efficient Air Conditioners in a Lens Factory	Energy Efficiency Improvement	147
29	2015	Thailand	JCM Model Project	FamilyMart Co., Ltd.	Energy Saving at Convenience Stores with High Efficiency Air-Conditioning and Refrigerated Showcase	Energy Efficiency Improvement	223
30	2015	Thailand	JCM Model Project	Pacific Consultants Co., Ltd.	Introduction of Solar PV System on Factory Rooftop	Renewable Energy	491
31	2015	Thailand	JCM Model Project	Toray Industries, Inc.	Reducing GHG Emission at Textile Factory by Upgrading to Air-saving Loom (Samutprakarn)	Energy Efficiency Improvement	390
32	2015	Thailand	JCM Model Project	Sony Semiconductor Manufacturing Corporation	Energy Saving for Semiconductor Factory with High Efficiency Centrifugal Chiller and Compressor	Energy Efficiency Improvement	365
33	2015	Myanmar	JCM Model Project	JFE Engineering Corporation	Introduction of Waste to Energy Plant in Yangon City	Waste handling and disposal	4,067
34	2015	Vietnam	JCM Model Project	Hitachi Chemical Company, Ltd.	Energy Saving in Acid Lead Battery Factory with Container Formation Facility	Energy Efficiency Improvement	3,825
35	2015	Indonesia	JCM Model Project	Toyota Tsusho Corporation	Installation of Gas Co-generation System for Automobile Manufacturing Plant	Effective Use of Energy	21,793
36	2015	Thailand	JCM Model Project	NIPPON STEEL & SUMIKIN ENGINEERING CO., LTD.	Installation of Co-Generation Plant for On-Site Energy Supply in Motorcycle Factory	Energy Efficiency Improvement/ Effective Use of Energy	7,262
37	2015	Indonesia	JCM Model Project	Sharp Energy Solutions Corporation	1.6MW Solar PV Power Plant Project in Jakabaring Sport City	Renewable Energy	917
38	2015	Indonesia	JCM Model Project	Sumitomo Rubber Industries, Ltd.	Introduction of High Efficiency Once-through Boiler in Golf Ball Factory	Energy Efficiency Improvement	148
39	2015	Cambodia	JCM Model Project	Asian Gateway Corporation	Introduction of Ultra-lightweight Solar Panels for Power Generation at International School	Renewable Energy	104
40	2015	Kenya	JCM Model Project	Pacific Consultants Co., Ltd.	Introduction of Solar PV System at Salt Factory	Renewable Energy	630
41	2015	Saudi Arabia	JCM Model Project	KANEMATSU CORPORATON	Introduction of High Efficiency Electrolyzer in Chlorine Production Plant	Energy Efficiency Improvement	3,289
42	2015	Thailand	JCM Model Project	Sony Semiconductor Manufacturing Corporation	Installation of High Efficiency Air Conditioning System and Chillers in Semiconductor Factory	Energy Efficiency Improvement	3,744
43	2015	Thailand	JCM Model Project	Inabata & Co., Ltd.	Energy Saving for Air-Conditioning in Tire Manufacturing Factory with High Efficiency Centrifugal Chiller	Energy Efficiency Improvement	208
44	2015	Bangladesh	JCM Model Project	EBARA REFRIGERATION EQUIPMENT & SYSTEMS CO., LTD.	Installation of High Efficiency Centrifugal Chiller for Air Conditioning System in Clothing Tag Factory	Energy Efficiency Improvement	578
45	2015	Vietnam	JCM Model Project	Yuko Keiso Co., Ltd.	Energy Saving in Factories with Air-Conditioning Control System	Energy Efficiency Improvement	3,297
46	2015	Vietnam	JCM Model Project	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Southern and Central Power Grids	Energy Efficiency Improvement	3,885
47	2015	Vietnam	JCM Model Project	TOTO LTD.	Installation of High Efficiency Kiln in Sanitary Ware Manufacturing Factory	Energy Efficiency Improvement	311
48	2015	Vietnam	JCM Model Project	AEON RETAIL Co., Ltd.	Introduction of Solar PV System at Shopping Mall in Ho Chi Minh City	Renewable Energy	125
49	2015	Mongolia	JCM Model Project	Sharp Energy Solutions Corporation	10MW Solar Power Project in Darkhan City	Renewable Energy	11,221
50	2015	Mongolia	JCM Model Project	Farmdo Co., Ltd.	Installation of 2.1MW Solar Power Plant for Power Supply in Ulaanbaatar Suburb	Renewable Energy	2,424
51	2015-2016	Indonesia	REDD+	KANEMATSU CORPORATION	REDD+ project in Boalemo District	REDD+	under investigation
52	2015-2017	Lao PDR	REDD+	Waseda University	REDD+ project in Luang Prabang Province through controlling slash-and-burn	REDD+	under investigation
53	2016	Mongolia	JCM Model Project	Farmdo Co., Ltd.	Installation of 8.3MW Solar Power Plant in Ulaanbaatar suburb Farm	Renewable Energy	9,585
54	2016	Vietnam	JCM Model Project	Yokohama Water Co., Ltd.	Introduction of High Efficiency Water Pumps in Da Nang City	Energy Efficiency Improvement	738
55	2016	Vietnam	JCM Model Project	HOYA CORPORATION	Installation of Energy Saving Equipment in Lens Factory	Energy Efficiency Improvement	1,220
56	2016	Indonesia	JCM Model Project	Toyo Energy Farm Co., Ltd.	10MW Mini Hydro Power Plant Project in North Sumatra	Renewable Energy	32,807
57	2016	Indonesia	JCM Model Project	FAST RETAILING CO., LTD.	Introduction of LED Lighting to Sales Stores	Energy Efficiency Improvement	2,583
58	2016	Indonesia	JCM Model Project	Nisshinbo Textile Inc.	Introduction High Efficiency Looms in Weaving Mill	Energy Efficiency Improvement	430
59	2016	Indonesia	JCM Model Project	EMATEC:Environmental Management and Technology Center	Energy Saving in Industrial Wastewater Treatment System for Rubber Industry	Energy Efficiency Improvement	403

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60	2016	Costa Rica	JCM Model Project	NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.	SMW Solar Power Project in Belen	Renewable Energy	2,245
61	2016	Costa Rica	JCM Model Project	NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.	Introduction of the High Efficiency Chiller and the Exhaust Heat Recovery System	Energy Efficiency Improvement	585
62	2016	Cambodia	JCM Model Project	AEON MALL Co., Ltd.	Introduction of 1MW Solar Power System and High Efficiency Centrifugal Chiller in Large Shopping Mall	Energy Efficiency Improvement/ Renewable Energy	881
63	2016	Mexico	JCM Model Project	NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.	Introduction of 1.2MW Power Generation with Methane Gas Recovery System	Waste handling and disposal	43,435
64	2016	Myanmar	JCM Model Project	Kirin Holdings Company, Limited	Introduction of Energy Saving Brewing Systems to Beer Factory	Energy Efficiency Improvement	2,841
65	2016	Myanmar	JCM Model Project	Acecook Co., Ltd.	Introduction of High-efficiency Once-through Boiler in Instant Noodle Factory	Energy Efficiency Improvement	674
66	2016	Thailand	JCM Model Project	AGC Inc.	Introduction of High Efficiency Ion Exchange Membrane Electrolyzer in Caustic Soda Production Plant	Energy Efficiency Improvement	2,591
67	2016	Thailand	JCM Model Project	FAST RETAILING CO., LTD.	Introduction of LED Lighting to Sales Stores	Energy Efficiency Improvement	1,649
68	2016	Thailand	JCM Model Project	TEPIA Corporation Japan Co., Ltd.	Introduction of High Efficiency Chilled Water Supply System in Milk Factory	Energy Efficiency Improvement	941
69	2016	Vietnam	JCM Model Project	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Northern, Central and Southern Power Grids	Energy Efficiency Improvement	3,477
70	2016	Vietnam	JCM Model Project	YAZAKI PARTS CO., LTD.	Introduction of Energy Saving Equipment to Automotive Wire Production Factory	Energy Efficiency Improvement	591
71	2016	Thailand	JCM Model Project	NTT DATA INSTITUTE OF MANAGEMENT CONSULTING, Inc.	Introduction of 12MW Power Generation System by Waste Heat Recovery for Cement Plant	Effective Use of Energy	29,746
72	2016	Thailand	JCM Model Project	DENSO CORPORATION	Introduction of Co-generation System to Motor Parts Factory	Energy Efficiency Improvement/ Effective Use of Energy	5,904
73	2016	Thailand	JCM Model Project	KYOWA HAKKO BIO CO., LTD.	Introduction of Energy Saving Refrigerator and Evaporator with Mechanical Vapor Recompression in Amino Acid Producing Plant	Energy Efficiency Improvement	1,527
74	2016	Thailand	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 3.4MW Rooftop Solar Power System to Air-conditioning Parts Factories	Renewable Energy	1,179
75	2016	Thailand	JCM Model Project	Finetech Co., Ltd.	Introduction of 2MW Rooftop Solar Power System for Power Supply in Factory	Renewable Energy	844
76	2016	Thailand	JCM Model Project	KANEMATSU CORPORATON	Introduction of Energy Efficient Refrigeration System in Industrial Cold Storage	Energy Efficiency Improvement	293
77	2016	Myanmar	JCM Model Project	Fujita Corporation	Rice Husk Power Generation in Rice Mill Factory in Ayeyarwady	Renewable Energy	4,080
78	2016	Mexico	JCM Model Project	Suntory Spirits Limited	Introduction of Once-through Boiler and Fuel Switching to Tequila Plant	Energy Efficiency Improvement	3,435
79	2016	Thailand	JCM Model Project	CPF JAPAN CO., LTD.	Introduction of Heat Recovery Heat Pumps to Food Processing Factory	Energy Efficiency Improvement	942
80	2016	Indonesia	JCM Model Project	Next Energy & Resources Co., Ltd.	Introduction of 0.5MW Solar Power System to Aroma and Food Ingredients Factory	Renewable Energy	369
81	2016	Thailand	JCM Model Project	TSB Co., Ltd.	Introduction of 5MW Floating Solar Power System on Industrial Water Reservoir	Renewable Energy	2,552
82	2016	Cambodia	JCM Model Project	METAWATER Co., Ltd.	Energy Saving by Inverters for Distribution Pumps in Water Treatment Plant	Energy Efficiency Improvement	406
83	2016	Chile	JCM Model Project	Waseda Environmental Institute Co., Ltd.	Introduction of 1MW Rooftop Solar Power System to University	Renewable Energy	517
84	2016	Myanmar	JCM Model Project	RYOBI HOLDINGS Co., Ltd.	Introduction of Energy Efficient Refrigeration System in Logistics Center	Energy Efficiency Improvement	125
85	2016	Thailand	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 30MW Rooftop Solar Power System to Large Supermarkets	Renewable Energy	13,293
86	2016	Thailand	JCM Model Project	BANDO CHEMICAL INDUSTRIES, LTD.	Introduction of High-efficiency Boiler System to Rubber Belt Plant	Energy Efficiency Improvement	3,060
87	2016	Thailand	JCM Model Project	YUASA Tradng Co., Ltd.	Energy Saving by Air-Conditioning Control System in Precision Parts Factories	Energy Efficiency Improvement	2,493
88	2017	Mongolia	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 15MW Solar Power System near New Airport	Renewable Energy	18,438
89	2017	Vietnam	JCM Model Project	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Southern and Central Power Grids II	Energy Efficiency Improvement	1,405
90	2017	Vietnam	JCM Model Project	YUASA Tradng Co., Ltd.	Introduction of High Efficiency Centrifugal Chiller to Rubber Products Factory	Energy Efficiency Improvement	289
91	2017	Vietnam	JCM Model Project	Sapporo International Inc.	Introduction of Energy Saving Equipment to Brewery	Energy Efficiency Improvement	111
92	2017	Lao PDR	JCM Model Project	TSB Co., Ltd.	Introduction of 14MW floating solar power system in Vientiane	Renewable Energy	6,838
93	2017	Lao PDR	JCM Model Project	Yuko Keiso Co., Ltd.	Introduction of Amorphous High Efficiency Transformers in Power Grid	Energy Efficiency Improvement	2,166
94	2017	Thailand	JCM Model Project	Fuji-Foods Cooperation	Introduction of Biomass Co-Generation System to Food Factory	Renewable Energy	7,111
95	2017	Philippines	JCM Model Project	Tokyo Century Corporation	Introduction of 1.53MW Rooftop Solar Power System in Auto Parts Factories	Renewable Energy	1,061
96	2017	Philippines	JCM Model Project	Toyota Motor Corporation	Introduction of 1MW Rooftop Solar Power System in Vehicle Assembly Factory	Renewable Energy	731
97	2017	Indonesia	JCM Model Project	DENSO CORPORATION	Introduction of Gas Co-generation System and Absorption Chiller to Motor Parts Factory	Energy Efficiency Improvement/ Effective Use of Energy	4,629
98	2017	Indonesia	JCM Model Project	Tokyo Century Corporation	Introduction of Absorption Chiller to Chemical Factory	Energy Efficiency Improvement	712
99	2017	Philippines	JCM Model Project	Tokyo Century Corporation	Installation of 1.2MW Rooftop Solar Power System in Refrigerating Warehouse	Renewable Energy	798
100	2018	Vietnam	JCM Model Project	Nihon Crant Co. Ltd.	Modal Shift from Truck to Cargo Ship with Freshness Preservation Reefer Container	Transport	10,103
101	2018	Vietnam	JCM Model Project	Yokohama Water Co., Ltd.	Energy Saving by Introduction of Inverters for Raw Water Intake Pumps	Energy Efficiency Improvement	602
102	2018	Indonesia	JCM Model Project	Otsuka Pharmaceutical Factory, Inc.	Energy Saving by Introducing High Efficiency Autoclave to Infusion Manufacturing Factory1	Energy Efficiency Improvement	1,949
103	2018	Indonesia	JCM Model Project	Hokusan Co., Ltd.	Introduction of CNG-Diesel Hybrid Equipment to Public Bus in Semarang	Transport	2,667
104	2018	Palau	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 0.4MW Rooftop Solar Power System in Supermarket	Renewable Energy	285
105	2018	Mexico	JCM Model Project	Sharp Energy Solutions Corporation	30MW Solar Park Project in Guanajuato	Renewable Energy	31,782
106	2018	Myanmar	JCM Model Project	Global Engineering Co., Ltd.	Introduction of 8.8MW Power Generation System by Waste Heat Recovery for Cement Plant	Effective Use of Energy	19,209
107	2018	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of Gas Co-generation System and Absorption Chiller to Fiber Factory	Energy Efficiency Improvement/ Effective Use of Energy	17,851
108	2018	Thailand	JCM Model Project	Tokyo Century Corporation	25MW Rooftop and Floating Solar Power Project in Industrial Park	Renewable Energy	10,678
109	2018	Thailand	JCM Model Project	Toyota Motor Corporation	Introduction of 3.4 MW Rooftop Solar Power System in Technical Center and Office Buildings	Renewable Energy	1,617
110	2018	Philippines	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 4MW Rooftop Solar Power System in Tire Factory	Renewable Energy	2,772
111	2018	Indonesia	JCM Model Project	Voith Fuji Hydro K. K.	Rehabilitation Project of Power Generation System at karai 7 Mini Hydro Power Plant	Renewable Energy	1,133
112	2018	Mexico	JCM Model Project	Suntory Spirits Limited	Introduction of Energy Efficient Distillation System to Tequila Plant	Energy Efficiency Improvement	1,493
113	2018	Myanmar	JCM Model Project	Kirin Holdings Company, Limited	Introduction of Biogas Boiler and Waste Heat Recovery System to Beer Factory	Energy Efficiency Improvement/ Renewable Energy	3,820
114	2018	Lao PDR	JCM Model Project	Sharp Energy Solutions Corporation	11MW Solar Power Project in Savannakhet Province	Renewable Energy	4,795
115	2018	Indonesia	JCM Model Project	AURA-Green Energy Co., Ltd.	12MW Biomass Power Plant Project in Aceh Province, Sumatera	Renewable Energy	31,322
116	2018	Indonesia	JCM Model Project	Tokyo Century Corporation	Introduction of High Efficiency Injection Molding Machine to Plastic Parts Factory	Energy Efficiency Improvement	4,462
117	2018	Thailand	JCM Model Project	TEPIA Corporation Japan Co.,Ltd.	Introduction of Biomass Boiler to Cooking Oil Factory	Renewable Energy	29,759
118	2018	Thailand	JCM Model Project	Kanematsu KGK Corp.	Introduction of 0.8MW Solar Power System and High Efficiency Refrigerator to Food Factory	Energy Efficiency Improvement/ Renewable Energy	500
119	2018	Bangladesh	ADB	Power Grid Company of Bangladesh, Ltd.	Introduction of High Efficiency Transmission Line in South-West area (between Barisal and Gopalaani) of Banladesh	Energy Efficiency Improvement	23,000
120	2018	Mongolia	ADB	Ministry of Energy	Upscaling Renewable Energy Sector Project	Renewable Energy	6,423

No	Year	Partner Country	Type	Representative Participant	Project Name	Sector	Estimated GHG Reduction (tCO2/year)
121	2018~2020	Thailand	JCM F-gas Project	DOWA ECO-SYSTEM CO., LTD.	Project on Introduction of Scheme for Fluorocarbons Recovery and Destruction with Utilization of Existing Waste Incineration Plant	F-gas Recovery and Destruction	12,512
122	2018~2020	Vietnam	JCM F-gas Project	Marubeni Corporation	Development of Collection Scheme and Introduction of Dedicated System for Destruction of Used Fluorocarbons	F-gas Recovery and Destruction	6,294
123	2019	Mongolia	JCM Model Project	Saisan Co.,Ltd.	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	Energy Efficiency Improvement	4,783
124	2019	Palau	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 1MW Solar Power System on Supermarket Rooftop	Renewable Energy	871
125	2019	Philippines	JCM Model Project	Tokyo Century Corporation	18MW Solar Power Project in Collaboration with Power-supply Company	Renewable Energy	11,981
126	2019	Vietnam	JCM Model Project	DAIICHI JITSUGYO CO., LTD.	Introduction of Biomass Boiler to Chemical Factory	Renewable Energy	16,211
127	2019	Thailand	JCM Model Project	Toyota Motor Corporation	Introduction of 37 MW Solar Power System and High Efficiency Melting Furnace in Vehicle & Engine Factory	Energy Efficiency Improvement/ Renewable Energy	19,512
128	2019	Thailand	JCM Model Project	NIPPON STEEL ENGINEERING CO., LTD.	Efficiency Improvement of Co-generation System by Installation of Heat Exchanger in Fiber Factory	Energy Efficiency Improvement	359
129	2019	Philippines	JCM Model Project	ITOCHU Corporation	Biogas Power Generation and Fuel Conversion Project in Pineapple Canneries	Renewable Energy	49,648
130	2019	Vietnam	JCM Model Project	Hitachi-Johnson Controls Air Conditioning, Inc.	Introduction of High Efficiency Air-conditioning System and Air Cooled Chillers to Office Buildings	Energy Efficiency Improvement	1,823
131	2019	Indonesia	JCM Model Project	AURA-Green Energy Co., Ltd.	2MW Mini Hydro Power Plant Project in East Nusa Tenggara Province	Renewable Energy	7,471
132	2019	Indonesia	JCM Model Project	Japan Pulp and Paper Company Limited	Introduction of High Efficiency Boiler System to Carton Box Factory	Energy Efficiency Improvement	374
133	2019	Chile	JCM Model Project	Asian Gateway Corporation	3.4MW Rice Husk Power Generation Project in Maule	Renewable Energy	8,567
134	2019	Ethiopia	JCM Model Project	Sharp Energy Solutions Corporation	120MW Solar Power Project in Metehara, Oromia Region	Renewable Energy	30,007
135	2019	Vietnam	JCM Model Project	Kanematsu KGK Corp.	49MW Solar Power Project in An Giang Province	Renewable Energy	24,570
136	2019	Indonesia	JCM Model Project	Voith Fuji Hydro K.K.	10MW Hydro Power Project in Bengkulu Province	Renewable Energy	35,950
137	2019	Indonesia	JCM Model Project	Voith Fuji Hydro K.K.	6MW Hydro Power Project in West Sumatera Province	Renewable Energy	17,242
138	2019	Cambodia	JCM Model Project	WWB Corporation	Hybrid Power Plant Project with Biomass and Solar Power in Kandal Province	Renewable Energy	1,881
139	2019	Cambodia	JCM Model Project	Asian Gateway Corporation	Introduction of 0.9MW Solar Power System at International School	Renewable Energy	463
140	2019	Chile	JCM Model Project	FARMLAND Co., Ltd.	3MW Solar Power Project in Chillan, Nuble Region	Renewable Energy	2,433
141	2019	Philippines	JCM Model Project	Chodai Co., Ltd.	33MW Wind Power Project in Caraga Region, Mindanao	Renewable Energy	35,350
142	2019	Mongolia	ADB	Ministry of Health	Improving Access to Health Services for Disadvantaged Groups Investment Program	Energy Efficiency Improvement/ Renewable Energy	2,993
143	2020	Vietnam	JCM Model Project	Kanematsu KGK Corp.	57MW Solar Power Project in An Giang Province	Renewable Energy	28,244
144	2020	Vietnam	JCM Model Project	DAIICHI JITSUGYO CO., LTD.	Introduction of Biomass Co-generation system to Food Factory	Renewable Energy	24,115
145	2020	Vietnam	JCM Model Project	Marubeni Corporation	Introduction of Biomass Boiler to Soluble Coffee Manufacturing Plant	Renewable Energy	19,498
146	2020	Vietnam	JCM Model Project	Acecook Co., Ltd.	Introduction of High Efficiency Boiler System to Food Factory	Energy Efficiency Improvement	7,631
147	2020	Vietnam	JCM Model Project	Hitachi-Johnson Controls Air Conditioning, Inc	Introduction of High Efficiency Air-conditioning System to Hotel in Ho Chi Minh City	Energy Efficiency Improvement	184
148	2020	Lao PDR	JCM Model Project	Kayama Kogyo Co., Ltd.	14MW Solar Power Project in Vientiane Province and Borikhamxay Province	Renewable Energy	8,111
149	2020	Indonesia	JCM Model Project	NiX Co., Ltd.	6MW Mini Hydro Power Plant Project in West Pasaman, West Sumatra	Renewable Energy	18,319
150	2020	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of 8.1MW Rooftop Solar Power System in Motorcycle Factory and Fiber Factory	Renewable Energy	3,815
151	2020	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of Energy Saving Centrifugal Chillers to Machinery Factory	Energy Efficiency Improvement	225
152	2020	Philippines	JCM Model Project	Mitsubishi Heavy Industries, Ltd.	29MW Binary Power Generation Project at Palayan Geothermal Power Plant	Renewable Energy	72,200
153	2020	Saudi Arabia	JCM Model Project	Marubeni Corporation	400MW Solar Power Project in Rabigh Region	Renewable Energy	475,393
154	2020	Chile	JCM Model Project	FARMLAND Co., Ltd.	3MW Solar Power Project Utilizing Farmland in Valparaiso Region	Renewable Energy	2,395
155	2020	Myanmar	JCM Model Project	Tokyo Century Corporation	7.3MW Solar Power Project in Mandalay International Airport and Yanaon City	Renewable Energy	3,307
156	2020	Thailand	JCM Model Project	Sumitomo Mitsui Finance and Leasing Company, Limited	Introduction of 5MW Rooftop Solar Power System to Aluminum Building Materials Factory	Renewable Energy	2,200
157	2020	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of 2.6MW Rooftop Solar Power System to Semiconductor Factory	Renewable Energy	1,188
158	2020	Thailand	JCM Model Project	Inabata Co., Ltd.	2.7MW Solar Power Project with Blockchain Technology in Chiang Mai University Town Community	Renewable Energy	1,187
159	2020	Philippines	JCM Model Project	Tokyo Century Corporation	Introduction of 2MW Solar Power System to Shopping Mall (JCM Eco Lease Scheme)	Renewable Energy	1,476
160	2020	Indonesia	JCM Model Project	Voith Fuji Hydro K.K.	5MW Hydro Power Project in Bengkulu Province	Renewable Energy	15,299
161	2020	Vietnam	JCM Model Project	Idemitsu Kosan Co., Ltd.	Introduction of 2MW Solar Power System for Pellet Factory	Renewable Energy	945
162	2020	Indonesia	JCM Model Project	Alamport Inc.	4.2MW Rooftop Solar Power Project to Pharmaceutical Factories, Vehicles Dealers. and Timber Factories	Renewable Energy	3,772
163	2020	Thailand	JCM Model Project	SHIZUOKA GAS CO., LTD.	Introduction of 2MW Rooftop Solar Power System to University	Renewable Energy	868
164	2020	Indonesia	JCM Model Project	AURA-Green Energy Co., Ltd.	8MW Mini Hydro Power Plant Project in Maluku Province	Renewable Energy	18,034
165	2020	Chile	JCM Model Project	Sharp Energy Solutions Corporation	34MW Solar Power Project in Nuble Region	Renewable Energy	25,576
166	2020	Thailand	JCM Model Project	Shizen Energy Inc.	Introduction of 32MW Rooftop and Floating Solar Power System to Factories	Renewable Energy	13,329
167	2020	Maldives	ADB	Ministry of Environment, the Maldives	Greater Male Waste to Energy Project	Waste handling and disposal	40,417
168	2021	Vietnam	JCM Model Project	JFE Engineering Corporation	Waste to Energy Project in Bac Ninh Province	Waste handling and disposal	41,804
169	2021	Vietnam	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 9MW Rooftop Solar Power System to Factories	Renewable Energy	3,618
170	2021	Vietnam	JCM Model Project	ENDO Lighting Corporation	Introduction of High Efficiency LED Lighting with Dimming and Tunable Function to Office Building in Ho Chi Minh City	Energy Efficiency Improvement	197
171	2021	Indonesia	JCM Model Project	Sumitomo Forestry Co., Ltd.	Introduction of 3.3MW Rooftop Solar Power System in Woodworking Factories	Renewable Energy	2,396
172	2021	Indonesia	JCM Model Project	FUMAKILLA LIMITED	Introduction of High-Efficiency Thermal Oil Heater System in Chemical Factory	Energy Efficiency Improvement	1,809
173	2021	Mexico	JCM Model Project	Sharp Energy Solution Corporation	20MW Solar Power Project in Guanajuato	Renewable Energy	20,023
174	2021	Thailand	JCM Model Project	Osaka Gas Co., Ltd.	Introduction of High Efficiency Once Through Boiler to Garment Factory	Energy Efficiency Improvement	2,665
175	2021	Philippines	JCM Model Project	mitsui & CO., LTD.	60MW Solar Power Project in Cordon, Isabela	Renewable Energy	47,596
176	2021	Philippines	JCM Model Project	Mizuho-Toshiba Leasing Company Ltd.	Tanawon 20MW Flash Geothermal Power Plant Project	Renewable Energy	38,312
177	2021	Vietnam	JCM Model Project	Marubeni Corporation	Introduction of 12MW Rooftop Solar Power System to Commercial and Industrial Customers	Renewable Energy	4,975
178	2021	Vietnam	JCM Model Project	Osaka Gas Co., Ltd.	Introduction of 9.8MW Rooftop Solar Power System in Industrial Park	Renewable Energy	4,312
179	2021	Vietnam	JCM Model Project	Asian Gateway Corporation	Introduction of 5.8MW Rooftop Solar Power System to Beverage Factory	Renewable Energy	2,531
180	2021	Vietnam	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of 2.5MW Rooftop Solar Power System to Food Factory and Garment Factory	Renewable Energy	984
181	2021	Vietnam	JCM Model Project	Tokyu Corporation	Introduction of High Efficiency Chiller and High Efficiency LED Lighting with Dimming Function to Shopping Center	Energy Efficiency Improvement	726

No	Year	Partner Country	Type	Representative Participant	Project Name	Sector	Estimated GHG Reduction (tCO2/year)
182	2021	Lao PDR	JCM Model Project	Liberal Solution Co., Ltd.	19MW Solar Power Project in Xiangkhouang Province	Renewable Energy	7,861
183	2021	Indonesia	JCM Model Project	WWS-JAPAN Co.	6MW Mini Hydro Power Plant Project in Besay River, Lampung Province	Renewable Energy	20,307
184	2021	Indonesia	JCM Model Project	Otsuka Pharmaceutical Factory, Inc.	Energy Saving by Introducing High Efficiency Autoclave to Infusion Manufacturing Factory 2	Energy Efficiency Improvement	8,796
185	2021	Indonesia	JCM Model Project	WWS-JAPAN Co.	2.3 MW Mini Hydro Power Plant Project in Melesom River, Lampung Province	Renewable Energy	6,787
186	2021	Chile	JCM Model Project	Eurus Energy Holdings Corporation	9MW Solar Power Project in Casablanca, Valparaiso Region	Renewable Energy	8,232
187	2021	Chile	JCM Model Project	Eurus Energy Holdings Corporation	9MW Solar Power Project in Yungay, Biobio Region	Renewable Energy	8,476
188	2021	Chile	JCM Model Project	FARMLAND Co., Ltd.	3MW Solar Power Project Utilizing Farmland in Maule Region	Renewable Energy	2,489
189	2021	Thailand	JCM Model Project	Kanematsu KGK Corp.	35MW Solar Power and Storage Battery Project in Suphanburi Province	Renewable Energy	14,194
190	2021	Thailand	JCM Model Project	Sharp Energy Solutions Corporation	Introduction of 23MW Rooftop Solar Power System to Tire Factories	Renewable Energy	8,928
191	2021	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of High Efficiency Boiler, High Efficiency Chiller, and Solar PV System to Textile Factory and Food Factory	Energy Efficiency Improvement/ Renewable Energy	1,885
192	2021	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of 2MW Rooftop Solar Power System to Non-ferrous Metal Factory	Renewable Energy	947
193	2021	Thailand	JCM Model Project	Tokyo Century Corporation	Introduction of 1.3MW Solar Power System to Food Factories (JCM Eco Lease Scheme)	Renewable Energy	603
194	2021	Thailand	JCM Model Project	Tokyo Century Corporation	Introduction of 0.13MW Solar Power System to Auto Parts Factory (JCM Eco Lease Scheme)	Renewable Energy	52
195	2021	Philippines	JCM Model Project	Oriental Consultants Co., Ltd.	Introduction of Energy Saving Air Conditioning System to Quezon City Hall Compound	Energy Efficiency Improvement	780
196	2021	Philippines	JCM F-gas Project	Marubeni Corporation	Development of a Fluorocarbon Collection and Destruction Model Project in Metro Manila, Philippines Utilizing Mixed Combustion	F-gas Recovery and Destruction	10,315
197	2021	Vietnam	JCM F-gas Project	Marubeni Corporation	Development of Fluorocarbons collection scheme and installation of mixed combustion decomposition facility in Vietnam	F-gas Recovery and Destruction	8,310
198	2022	Kenya	JCM Model Project	AAIC Japan Co., Ltd.	Introduction of 3.1MW Rooftop Solar Power System to Food Processing Facilities	Renewable Energy	2,454
199	2022	Kenya	JCM Model Project	AAIC Japan Co., Ltd.	Introduction of 2.3MW Rooftop Solar Power System to Hatchery, Meat Processing and Battery Facilities	Renewable Energy	1,735
200	2022	Vietnam	JCM Model Project	eREX Co.,Ltd.	20MW Biomass Power Plant Project in Hau Giang Province	Renewable Energy	36,814
201	2022	Vietnam	JCM Model Project	Kanematsu KGK Corp.	16MW Mini Hydro Power Plant Project in Binh Thuan Province	Renewable Energy	16,910
202	2022	Vietnam	JCM Model Project	The Kansai Electric Power Company, Incorporated	Energy Supply Project by 7.9MW Rooftop Solar Power System to Automotive and Garment Factories	Renewable Energy	2,634
203	2022	Vietnam	JCM Model Project	Sumitomo Mitsui Trust Panasonic Finance Co., Ltd.	Introduction of 0.4MW Rooftop Solar Power System to Aluminum Wheel Manufacturing Factory (JCM Eco Lease Scheme)	Renewable Energy	156
204	2022	Indonesia	JCM Model Project	DIC Corporation	Introduction of High-efficiency Once-through Boiler System to Chemical Factory	Energy Efficiency Improvement	1,652
205	2022	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Introduction of Gas Co-generation System and 22MW Rooftop Solar Power System to Tire Factory	Energy Efficiency Improvement/ Renewable Energy	38,703
206	2022	Thailand	JCM Model Project	AGC Inc.	Introduction of ORC Waste Heat Recovery Power Generation System to Flat Glass Factory	Effective Use of Energy	7,845
207	2022	Thailand	JCM Model Project	The Kansai Electric Power Company, Incorporated	Energy Supply Project by 4.0MW Rooftop Solar Power System to Parts and Tools Factories	Renewable Energy	1,802
208	2022	Thailand	JCM Model Project	Osaka Gas Co., Ltd.	Energy Supply Project by 2.9MW Rooftop Solar Power System to Metal Factories and Refrigerating Warehouse	Renewable Energy	1,150
209	2022	Thailand	JCM Model Project	Marubeni Corporation	Energy Supply Project by 1MW Rooftop Solar Power System to Metal Recycling and Automotive Parts Factories	Renewable Energy	400
210	2022	Philippines	JCM Model Project	JGC CORPORATION	28MW Binary Power Generation Project at Mahanagdong Geothermal Power Plant	Renewable Energy	76,220
211	2022	Philippines	JCM Model Project	Toyota Tsusho Corporation	14.5MW Mini Hydro Power Plant Project in Siguil River in Mindanao	Renewable Energy	41,574
212	2022	Philippines	JCM Model Project	Marubeni Corporation	Energy Supply Project by 9MW Solar Power System to Ceramic Factory and Cement Plant	Renewable Energy	5,957
213	2022	Philippines	JCM Model Project	Tokyo Century Corporation	Introduction of 0.8MW Solar Power System to Aluminum Products, Packaging Materials and Automotive Parts Factories (JCM Eco Lease Scheme)	Renewable Energy	544
214	2022	Indonesia	JCM Model Project	Toyota Motor Corporation	Introduction of 5MW Solar Power System to Vehicle and Engine Plants	Renewable Energy	3,788
215	2022	Chile	JCM Model Project	FARMLAND Co., Ltd.	6MW Solar Power Project Utilizing Farmland in Maule and Nuble Region	Renewable Energy	4,400
216	2022	Thailand	JCM Model Project	Dole Japan, Inc.	Thermal Energy Supply and Methane Avoidance Project Utilizing Biomass mixed with Biogas from Wastewater in Fruit Processing	Renewable Energy	43,343
217	2022	Thailand	JCM Model Project	Tokyo Century Corporation	Introduction of 1.6MW Solar Power System to Plastic Bottles and Cosmetics Factories (JCM Eco Lease Scheme)	Renewable Energy	595
218	2022	Vietnam	JCM Model Project	Marubeni Corporation	Introduction of 5.7MW Rooftop Solar Power System to Fastener and Aluminum Factories	Renewable Energy	1,416
219	2022	Indonesia	JCM Model Project	Alamport Inc.	Introduction of 3.1MW Rooftop Solar Power System to Fast-Moving Consumer Goods and Printing Factories in Java Island	Renewable Energy	2,658
220	2022	Indonesia	JCM Model Project	Tokyo Century Corporation	Introduction of 2.1MW Solar Power System to Steel Wire Products and Aluminum Factories	Renewable Energy	1,747
221	2022	Chile	JCM Model Project	Eurus Energy Holdings Corporation	9MW Second Solar Power Project in Yungay, Biobio Region	Renewable Energy	8,342
222	2022	Chile	JCM Model Project	Eurus Energy Holdings Corporation	9MW Solar Power Project in Teno, Maule Region	Renewable Energy	8,239
223	2022	Kenya	UNIDO	FARMLAND Co., Ltd.	Introduction of 230kW Solar Power plus Battery to PJ Dave Flora Ltd	Renewable Energy	184
							Estimated GHG Reduction (tCO2/year)
Amount							2,349,777