

Overview of the Financing Programme for JCM Model Projects

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Satoru TANGO Global Environment Centre Foundation (GEC)





- Basic concept of the JCM and Financing Programme 1.
- Guideline for Project Proposal 2.



Facilitating diffusion of advanced low-carbon or decarbonizing technologies, products, system, services and infrastructure as well as implementation of mitigation actions, and contributing to sustainable development of developing country.

Appropriately evaluating contributions from Japan to GHG emission reductions or removals in a quantitative manner and use them to achieve Japan's emission reduction target.

Contributing to the ultimate objective of the UNFCCC by facilitating global actions for GHG emission reductions or removals.



*measurement, reporting and verification

Basic concept of the JCM Model Projects (2) Geo Global Environment Centre Foundation



JCM Financing Programme (FY2013-2019), as of Sep 3, 2019 Centre Foundation



What kind of projects are supported by this financing programme?

Guideline



- Reduce energy-related CO2 emissions with leading low carbon technologies in partner countries
- Contribute to the sustainable development in partner countries.
- Reduction of GHG emissions achieved by the projects can be quantitatively calculated and verified.
- Facilities installed by the projects do not receive any other subsidy by the Government of Japan.



- (a) A representative participant of the model project shall be a Japanese entity of an international consortium.
- (b) A participant shall have capability for the implementation, such as technical capacity to appropriately implement the eligible project.
- (c) A participant shall have a financial basis to bear the costs necessary to appropriately implement the eligible project.
- (d) A participant shall have adequate management structures and handling capacity for accounting and other administrative work related to the eligible project;

Guideline

(e) A participant shall explain the contents, effect on GHG emission reductions, details of the cost, investment plan, etc. of the eligible project.



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What kind of cost is covered & not covered by this programme? ✓ COVERED

- (a) Main construction work
- (b) Ancillary work
- (c) Machinery and appliances
- (d) Surveying and testing
- (e) Facilities/equipment (including monitoring equipment)
- (f) Administrative work; and

Guideline

(g) Other necessary costs approved by GEC

What is the criteria of cost-effectiveness?

JPY4,000/tCO2equivalent

Amount of financial support[JPY]

Emission reductions of GHG [tCO2equivalent/y] × legal durable years[y]

Legal durable years of the facilities is stipulated by the Japanese law, and are dependent on the industry classification.

JPY3,000/tCO2equivalent

In case the number of PV JCM Model Projects by each country is 5 or more. (Mongolia and Thailand)

Guideline

Budget	JPY9.9 billion (Approx. USD90million)	Financial support per project					
Executing Entity	International Consortium that consists of a Japanese entity and a JCM partner-country entity(ies)	From ¥50million to ¥2billion (approx.)					
Scope of Financing	Facilities, equipment, vehicles, etc. which reduce CO2 from fossil fuel combustion as well as construction cost for install	ling those facilities, etc.					
Eligible Projects	Start installation after the Contract of Finance is concluded and finish installation w	vithin 3 years.					
Maximum percentage of Financial Support	Maximum of 50% and reduce the percentage according to the number of already selected project(s) using a similar technology in % Number of already selected project(s) using a similar technology in each partner country : none (0) = up to 50%, up to 3 (1-3) = up to 40%, more than 3 (>3) = up to 30%. The percentage of financial	each partner country. support will be determined by GEC.					
Cost-effectiveness	Cost-effectiveness of GHG emission reductions is expected to be JPY4,000/tCO2eq o % If the number of PV projects in a partner country is 5 or more, cost-effectiveness is expected to be JPY3,000/	o r better. tCO2eq or better.					



JCM Model Projects Schedule in FY2019



Global Environment Centre Foundation



Guideline

Categorization by Technology Type for JCM Model Projects Global Environment Centre Foundation

New Techno	olog	ies		Percentage of Financial S	I Support : White 0 project = Up to 50%						Yellow 1-3 project(s) = Up to 40%						ge more than 4 projects = Up to 30%							
Colocted in I		010	ogy	JCM Methodology	Mongolia	Bangladesh	Ethiopia	Kenya Maldives	Viet Nam	Lao PDR	Indonesia	Costa Rica	Palau	Cambodia	Mexico	Saudi Arabia	Chile	Myanmar	Thailand	Philippine	Total			
Selected in f	יר <mark>ז צ</mark>	$\bigcup \delta$			MN	BD	ET	KE MV	VN	LA	ID	CR	PW	KH	MX	SA	CL	MM	TH	PH				
			system	VN_AM006, ID_AM004					2		1								1		4			
		Chiller		BD_AM001, VN_AM011, ID_AM002,		2			3		4	1		1					3		14			
				CR_AM002, TH_AM003, TH_AM005														2			_			
Refrige Absor Heat Swirlin condit Double Fridge Boiler		Refrigerator		ID_AM003, TH_AM008							1							2	4		/			
		Absorption C	niller Using Waste								2								2		4			
		Redu Swirling Indu	ation Tuno Air		-																			
		Swirling Indu	Cuon Type Air-	TH_AM006															1		1			
		Conditioning Double Bund	bystern						1		1								1		2			
		Eridgo and Er							1		1								1		3			
			eezer Showcase								1								1		2			
		Boiler		MN_AM002, ID_AM015	1				1		2				1			2	1		8			
		Water Heater	Lising Waste Heat									1									1			
			Using Waste Heat									-									1			
		Wasta Hoat D	covery System															2	1		3			
				VN_AM005, LA_AM003					4	1											5			
Autoclave				ID_AM005							2								2		4			
			hting with	ID_AM018, KH_AM001							1			1							2			
Multi-offect Distillation	Syctom		em																					
Multi-enect Distiliation	System	I		VN_AM013					1						ļ						1			
The second second second	1.1		pr	TH_AM002					1										1		2			
Injection Molding Machine			em								1										1			
, <u>,</u>			Burners	ID_AM009							1										1			
			nace	VN_AM010					1												1			
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		Loom	ad Cartana	BD_AM003, ID_AM011, TH_AM004		T					2								1		4			
		Dia Corrugal	ed Carlons	ID_AM012							1										1			
			Forming Device						1												1			
Biogas Boiler									1												1			
			Chiornic	SA_AM001												1			1		2			
	_		g Machines	VN AM014					1						-						1			
		otry crane																	1		1			
		Forkl	ft																1		1			
		Au									1										1			
		Multi-effect	ion System												1						1			
		Injection Mod	lling Macro								1										1			
				MN_AM003, BD_AM002, KE_AM002,																				
				MV_AM001, VN_AM007, LA_AM002,																				
		Solar Power	Plant	ID_AM013, CR_AM001, PW_AM001,	6	2		2 1	1	2	2	1	4	2	2		1		9	4	39			
				KH_AM002, MX_AM001, CL_AM001,																				
			Plant with Datta								1						1							
											1						1			2	2			
Poofor Container			Plant												1						1			
			er Plant								1				1			1		1	3			
CNG-Diesel Hybrid Bus											-							-	1	-	1			
																		1	-		1			
			eneration	ET_AM003			1								<u> </u>				1		2			
		POWEr Gener	ation by Waste												1									
	3.Effective Use of	Heat Recover	V	ID_AM001, TH_AM007							1							1	1		3			
ł	Energy		, ration								2				<u> </u>				2		_			
-		Gas Co-generation									2							1	<u> </u>		5			
4. Waste Handling and Disposal 5. Transportation Total Number		Waste-to-Energy Plant Power Generation by Methane																1			1			
															1						1			
		Recovery																						
		Digital Tacho	graph System	VN_AM001					1												1			
		CNG-Diesel H	iyorid Bus								1										1			
		Reefer Conta	iner						1						ļ						T			
		Number of te	chnology: 45	No. of Methodology : 53	7	5	1	2 1	21	3	33	3	4	5	6	1	2	10	38	8	150			

Infrastructure through JCM

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 Thailand / FAST RETAILING CO., LTD. High Efficiency LED Lighting
Cambodia / AEON MALL Co., Ltd. Solar Power System and High Efficiency Centrifugal Chiller
Bangladesh / Ebara Refrigeration Equipment & Systems Co., Ltd. High Efficiency Centrifugal Chiller
Mexico / Suntory Spirits Limited Once-through Boiler and Fuel Switching







 Indonesia / Environmental Management and Technology Center Energy Saving in Industrial Wastewater Treatment System
Myanmar / Kirin Holdings Company, Limited, Energy Saving Brewing Systems
Thailand / TSB Co., Ltd, Floating Solar Power System
Mexico /NTD ATA INSTITUTE OF MANAGEMENT CONSULTING, Inc., Power Generation with Methane Gas Recovery System

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Accelerating International Promotion of Infrastructure through JCM

Along with the Overseas Development Strategy (Environment) compiled by Cabinet Office, Government of Japan in June 2018, the JCM model project aims to contribute to global GHG emission reductions, through the diffusion of leading low carbon or decarbonizing technologies.

POWER GENERATION AND SUPPLY



 Palau / Pacific Consultants Co., Ltd. Solar Power Plants for Commercial Facilities
Indonesia / Toyota Tsusho Corporation Double-Bundle type Heat Pump
Indonesia / Hokusan Co., Ltd. CNG-Diesel Equipment to Public Bus
Thailand / Yokohama Port Corporation Energy Efficient Equipment to Bangkok Port



 Viet Nam / Yuko Keiso Co., Ltd. Amorphous High Efficiency Transformers in power grid
Viet Nam / Yokohama Water Co., Ltd. High Efficiency Water Pumps
Myanmar / JFE Engineering Corporation Waste to Energy Plant in Yangon City
Myanmar / Fujita Corporation Rice Husk Power Generation

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