

JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

Introduction of 0.8MW Solar Power System to Aluminum Products, Packaging Materials and Automotive Parts Factories (JCM Eco Lease Scheme)

A.2. General description of project and applied technologies and/or measures

This JCM Eco Lease Project introduces Solar Power Systems to Japanese Factories in the Philippines with the JCM Eco Lease Scheme. A total capacity of 0.8MW Solar Power System is installed on the rooftops of the factories. By combining financial support and leasing, the JCM Eco Lease Scheme contributes to GHG reduction. The main equipment for this project will be solar panels from Canadian Solar, and inverters and monitoring equipment from Huawei.

A.3. Location of project, including coordinates

Country	Philippines
Region/State/Province etc.:	Site 1: Cavite, Philippines Site 2: Cavite, Philippines Site 3: Laguna, Philippines Site 4: Laguna, Philippines Site 5: Batangas, Philippines
City/Town/Community etc:	Site 1: Lot5, Block21, Phase III, Cavite Economic Zone Rosario, 4106 Site 2: Blk. 7 Lot 10-13, Phase 2, First Cavite Industrial Estate - Sez Langkaan, Dasmarinas City, 4126 Site 3: Lot C2-1A, Carmelray Industrial Park II, Barangay Punta, Calamba City Site 4: No.5, Ring Road, Light Industry Science Park I, Barangay, Lamesa, Calamba City Site 5: Block 6 Lot 2&3, Phase 3, Lima Technology Center, Malvar
Latitude, longitude	Site 1: 14.418270, 120.857700 Site 2: 14.279164, 120.931465 Site 3: 33.675030, -117.353248 Site 4: 14.227450, 121.112030 Site 5: 14.008551969541983, 121.16604264044145

A.4. Name of project participants

The Republic of the Philippines	DAIKI OM ALUMINIUM INDUSTRY (PHILIPPINES), INC. FUJISASH PHILIPPINES, INC. HKT PHILIPPINES, INC. KANEPACKAGE PHILIPPINE, INC. BPI Century Tokyo Rental Corporation
Japan	Tokyo Century Corporation

A.5. Duration

Starting date of project operation	Site 1 : ①Building 1: January 28, 2024 ②Building 2: February 15, 2024 Site 2 : December 8, 2023 Site 3 : February 13, 2024 Site 4 : August 4, 2023 Site 5 : July 30, 2022
The expected operational lifetime of the project	6 years

A.6. Contribution from Japan

The proposed project was partially supported by the Ministry of the Environment, Japan (MOEJ) through the Financing Programme for JCM Model projects, which provided financial support of 7% of the initial investment for the projects to acquire JCM credits.

Providing finance leases can support many customers who have not yet taken the plunge into CO2 reduction measures due to a lack of financial and human resources. It can positively consider introducing solar energy in the Philippines and reduce GHG emissions by utilizing renewable energy produced by solar panels.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	PH_AM002
Version number	Ver1.0

B.2. Explanation of how the project meets the eligibility criteria of the approved methodology

Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project installs solar PV system(s).	A solar PV system is installed at each project site. The solar PV modules employed are:

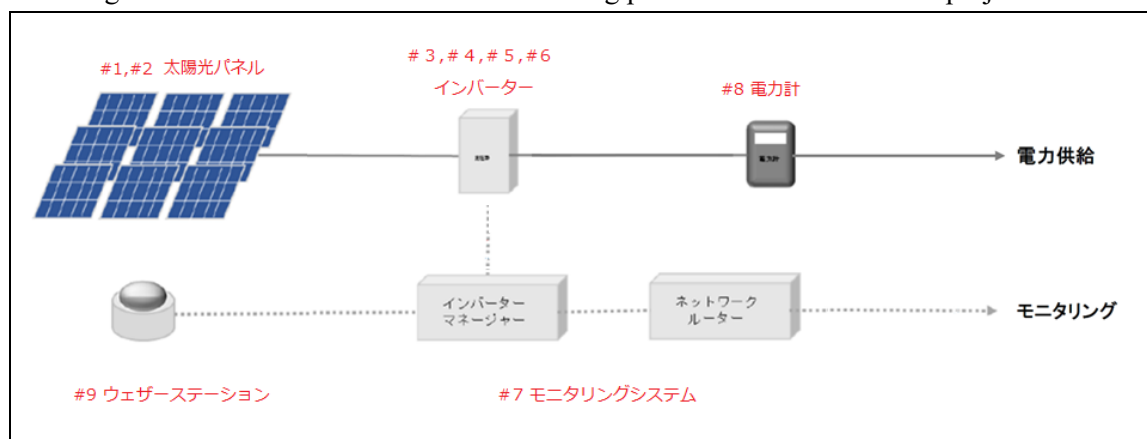
		Site 1: CANADIAN SOLAR CS6W-550MS Site 2: CANADIAN SOLAR CS6W-545MS Site 3: CANADIAN SOLAR CS6W-545MS Site 4: CANADIAN SOLAR CS6W-550MS Site 5: CANADIAN SOLAR CS6W-550MS Inverters employed are HUAWEI SUN2000 20KTL/40KTL/60KTL/100KTL.
Criterion 2	The PV modules are certified for design qualifications (IEC 61215, IEC 61646 or IEC 62108) and safety qualification (IEC 61730-1 and IEC 61730- 2).	The project will use solar panels (modules) from Canadian Solar which are certified for design qualifications (IEC 61215) and safety qualification (IEC 61730).
Criterion 3	The equipment used for monitoring output power of the solar PV system(s) and irradiance is installed at the project site	An electricity meter (Schneider EasyLogic PM2220 & PM2120) is installed at each project site to measure the output power of the solar PV system. For measuring irradiance, the RainWise PVmet™-200 is installed which has an adjustable irradiance sensor for providing global irradiance and a separate plane-of-array sensor.

C. Calculation of emission reductions

C.1. All emission sources and their associated greenhouse gases relevant to the JCM project

Reference emissions	
Emission sources	GHG type
Consumption of grid electricity and/or captive electricity	CO2
Project emissions	
Emission sources	GHG type
Generation of electricity from the solar PV system(s)	N/A

C.2. Figure of all emission sources and monitoring points relevant to the JCM project



※ No emission sources from this project

C.3. Estimated emissions reductions in each year

Year	Estimated Reference emissions (tCO ₂ e)	Estimated Project Emissions (tCO ₂ e)	Estimated Emission Reductions (tCO ₂ e)
2013	-	-	-
2014	-	-	-
2015	-	-	-
2016	-	-	-
2017	-	-	-
2018	-	-	-
2019	-	-	-
2020	-	-	-
2021	-	-	-
2022	-	-	-
2023	-	-	-
2024	549	0	549
2025	549	0	549
2026	549	0	549
2027	549	0	549
2028	549	0	549
2029	549	0	549
2030	-	-	-
Total (tCO ₂ e)			3294

D. Environmental impact assessment

Legal requirement of environmental impact assessment for the proposed project	NO
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E. Local stakeholder consultation

E.1. Solicitation of comments from local stakeholders

To collect comments from local stakeholders, the project participants requested online interviews as a local stakeholder consultation (LSC). Before holding the LSC, the project	
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participants prepared a list of candidate participants for the LSC. The list was fixed by reflecting comments from the Philippine side. Based on the fixed list, candidate participants were contacted mainly by e-mail regarding the LSC. The outline of the LSC is shown in the table below.

Date and time	Venue	Participants
25 September 2024 9:00-10:30 Phst (10:00-11:30 JST)	Zoom (online)	24 people attended the LSC. 3 people from Tokyo Century Corporation as the organizer; 3 people from Pacific Consultants Co., Ltd. as the secretariat. Representatives from Daiki OM Aluminium Industry (Philippines), Inc; Fujisash Philippines, Inc; IncHkt Philippines, Inc; Kanepackage Philippine, Inc. ※ Note: The JCM Joint Committee members from the Department of Environment and Natural Resources were supposed to attend the LSC, but they were absent on the day.

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
N/A	N/A	N/A

F. References

N/A

Reference lists to support descriptions in the PDD, if any.

Annex

N/A

Revision history of PDD

Version	Date	Contents revised
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Draft	2024/12/25	Starting date of project operation of site No.2 FUJISASH.
Draft	2025/01/24	Starting date of project operation of site No.5 KANEPACKAGE.