JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

Introduction of 1.3MW Solar Power System to Food Factories

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

The proposed project aims to reduce greenhouse gas (GHG) emissions in Thailand by introducing a total of approximately 1.3MW rooftop solar power system to a food factory owned by PRIMAHAM FOODS (THAILAND) CO., LTD. The project is implemented by Tokyo Century Corporation through a leasing scheme funded by the Japanese government, and the lessor is TISCO Tokyo Leasing Co., Ltd. The electricity produced by the solar power system will replace part of the grid electricity which is generated by thermal power plants and will be utilized for self-consumption of all project locations during the project period. The proposed project is expected to reduce a total of 3,461 tCO2eq throughout the project period. The actual emission reductions may vary depending on the actual operation of the factory and the sun radiation of the project location.

A.3. Location of project, including coordinates

Country	The Kingdom of Thailand
Region/State/Province etc.:	SAMUTPRAKARN
City/Town/Community etc:	99/1 MOO 6, BANGNA-TRAD KM.35, KLONGNIYOMYATRA, BANG BO
Latitude, longitude	N13.629693, E100.915063

A.4. Name of project participants

The Kingdom of Thailand	PRIMAHAM FOODS (THAILAND) CO., LTD. TISCO Tokyo Leasing Co., Ltd.
Japan	Tokyo Century Corporation

A.5. Duration

Starting date of project operation	20/12/2022
Expected operational lifetime of project	6 years
Type and duration of crediting period	Fixed crediting period

Starting date of crediting period (input the information when requesting a renewal of crediting period)	N/A

A.6. Contribution from Japan

The proposed project was partially supported by the Ministry of the Environment, Japan (MOEJ) through the Financing Program for JCM Model projects, which provided financial support of less than half of the initial investment for the project in order to acquire JCM credits. The technology of advanced and efficient solar power system is introduced in the proposed project by the Japanese project participant. Further, implementation of the proposed project promotes technology transfer of low carbon technologies in Thailand.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	TH_AM001
Version number	Ver03.0

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

Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project installs solar PV system(s).	The proposed project installed a new solar PV system in the location stated in A.3.
Criterion 2	The solar PV system is connected to the internal power grid of the project site and/or to the grid for displacing grid electricity and/or captive electricity at the project site.	The solar PV system is connected to the internal power grid of the project site for displacing grid electricity at the project site.
Criterion 3	The PV modules have obtained a certification of design qualifications (IEC 61215, IEC 61646 or IEC 62108) and safety qualification (IEC 61730-1 and IEC 61730-2).	The PV modules have obtained a certification of design qualifications (IEC 61215) and safety qualification (IEC 61730-1 and IEC 61730-2).
Criterion 4	The equipment to monitor output power of the solar PV system and irradiance is installed at the project	Power meters are installed at the project site to monitor output power of the solar PV systems. Pyranometers are installed at

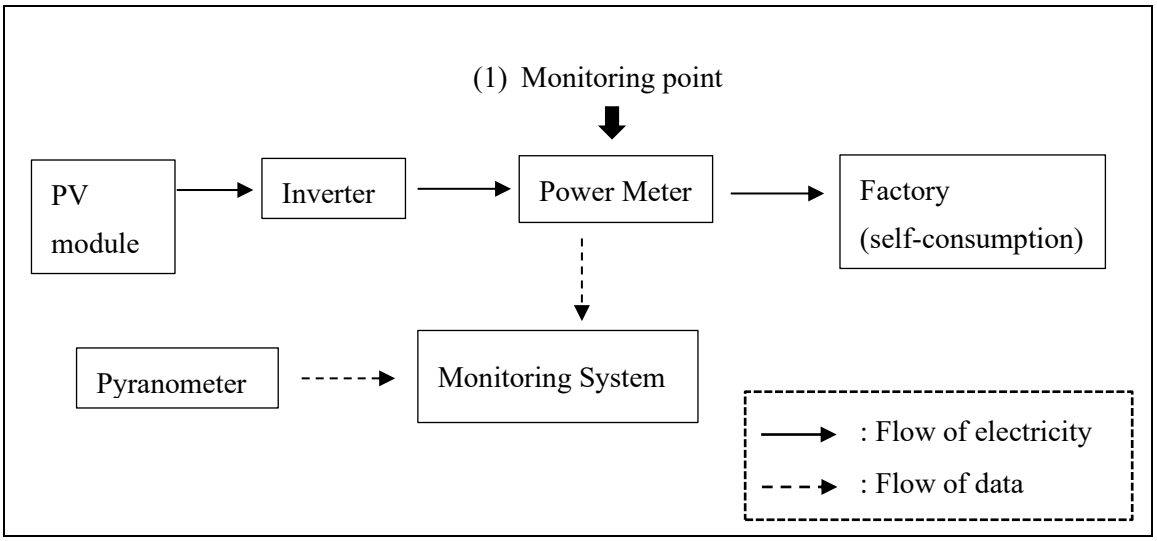
	site.	the project site to monitor irradiance.

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 and/or captive electricity	CO_2
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



C.3. Estimated emissions reductions in each year

Year	Estimated Reference emissions (tCO_2eq)	Estimated Project Emissions (tCO_2eq)	Estimated Emission Reductions (tCO_2eq)
2013	-	-	-
2014	-	-	-
2015	-	-	-
2016	-	-	-
2017	-	-	-
2018	-	-	-
2019	-	-	-

2020	-	-	-
2021	-	-	-
2022	18.9	-	18
2023	577.2	0	577
2024	577.2	0	577
2025	577.2	0	577
2026	577.2	0	577
2027	577.2	0	577
2028	558.2	0	558
2029	-	-	-
2030	-	-	-
Total (tCO_2eq)			3,461

D. Environmental impact assessment	
Legal requirement of environmental impact assessment for the proposed project	No

E. Local stakeholder consultation

E.1. Solicitation of comments from local stakeholders

To solicit comments from local stakeholders, a consultation meeting was planned by the project participants, and the project participants invited various stakeholders. Details of the local stakeholder consultation meeting is summarized as follows:

Date and Time: 29th January 2025, 13:00-14:00 (Thailand time) / 15:00-16:00 (Japan time)
Venue: Online meeting

Agenda:
1. Opening remarks and introduction (by Tokyo Century Corporation)
2. Overview of the project (by Tokyo Century Corporation)
3. Explanation of technology introduced at the project site (by Tokyo Century Corporation)
4. Questions and answers
5. Closing (by Tokyo Century Corporation)

Following organizations from Thailand side were invited to the consultation meeting.

- Thailand Greenhouse Gas Management Organization (TGO)
- PRIMAHAM FOODS (THAILAND) CO., LTD.

There were no negative comments toward the proposed project expressed during the stakeholders meeting by the attendees. The comments received during the local stakeholders meeting are summarized in the following section.

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
Thailand Greenhouse Gas Management Organization (TGO)	Does the system continue operating or stop when the factory is on break?	For Primaham, the factory operates every day in order to freeze the foods, therefore the system does not stop. (No further action is needed)
	On behalf of the JCM secretariat we want to remind the project participants to submit the newly developed SDSAR.	We have noted the new document and will prepare an SDSAR prior to project validation and registration. (SDSAR will be prepared)

F. References

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

Attachment

Revision history of PDD		
Version	Date	Contents revised
01.0	17/12/2025	First edition