

JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

Introduction of 0.4MW Rooftop Solar Power System to Aluminum Wheel Manufacturing Factory in Hanoi, Vietnam

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

The proposed project aims to install a roof-mounted photovoltaic system at Enkei Vietnam's Thang Long Plant to supply electricity needed in the manufacturing process, thereby realizing a low-carbon factory using an eco-lease system.

Specifically, a 0.4 MW rooftop solar power generation system will be installed at the factory for self-consumption purposes.

In this project, Sharp NSN Energy Solutions will be the equipment supplier, and the company in charge of the installation and the maintenance.

The particularity of the project is the use of an eco-lease system, in which a lease agreement is made between the factory and the owner of the solar panel assets, for a period of 5 years.

A.3. Location of project, including coordinates

Country	Socialist Republic of Viet Nam
Region/State/Province etc.:	Hanoi
City/Town/Community etc:	Dong Anh District
Latitude, longitude	Latitude: N21°11'12.9" Longitude: E105°77'18.9"

A.4. Name of project participants

Socialist Republic of Viet Nam	Enkei Vietnam Co., Ltd. BIDV-SuMi TRUST Leasing Co., Ltd.
Japan	Sumitomo Mitsui Trust Panasonic Finance Co.,Ltd.

A.5. Duration

Starting date of project operation	07/02/2024
Expected operational lifetime of project	5 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 less than half of the initial investment for the projects in order to acquire JCM credits.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	JCM_VN_AM007
Version number	Ver01.0

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

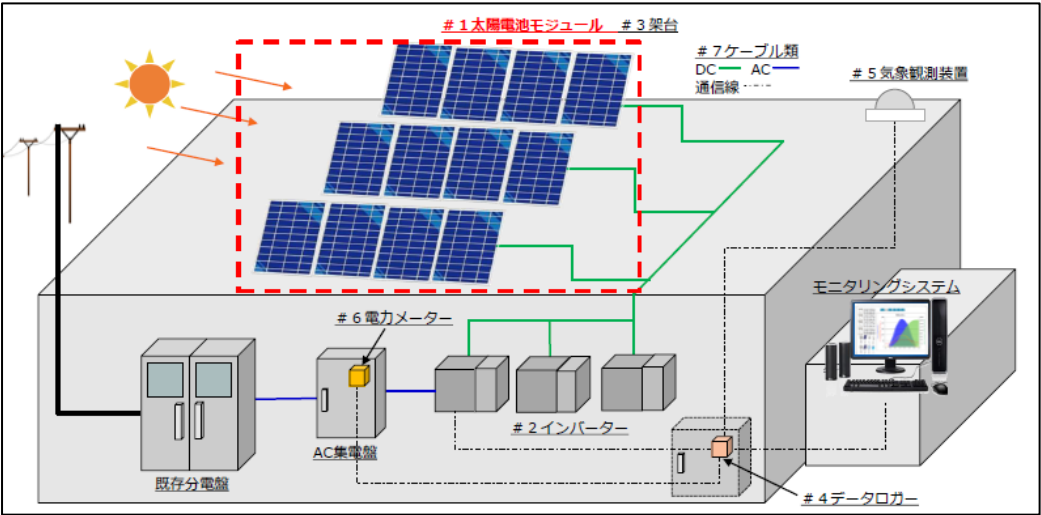
Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project newly installs solar PV system(s).	The solar panel system is newly installed on the rooftops of the factory of Enkei Vietnam.
Criterion 2	The PV modules are certified for design qualifications (IEC 61215, IEC 61646 or IEC 62108) and safety qualification (IEC 61730-1 and IEC 61730-2).	The installed system complies with the following qualifications. Design qualifications: IEC61215-1, IEC61215-1-1 and IEC61215-2 Safety qualification: IEC61730-1 and IEC61730-2
Criterion 3	The equipment to monitor output power of the solar PV system(s) and irradiance is installed at the project site.	Electricity meters as well as a data logger and weather-monitoring to monitoring the power output and irradiance from the sun are installed onsite.

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 national grid electricity 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 emissions (tCO ₂ e)	Reference	Estimated Emissions (tCO ₂ e)	Project	Estimated Reductions (tCO ₂ e)	Emission
2024		143		0		143
2025		156		0		156
2026		156		0		156
2027		156		0		156
2028		156		0		156
2029		13				13
Total (tCO ₂ e)						780

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 deepen the understanding from stakeholders on the project, the project participant conducted a local stakeholder consultation meeting as follows.

- ✧ Date and time: 15 October 2024, 16:00-17:00 (Japanese time)/14:00-15:00 (Vietnamese time)
- ✧ Venue (Hybrid): Enkei Vietnam's facility/Zoom
- ✧ Attendees (total 15 representing the following organizations):
 - Sumitomo Mitsui Trust Panasonic Finance Co., Ltd. (General Manager, Fellow)
 - BIDV SuMi Trust Leasing (Head, Senior associate, Associate)
 - Enkei Vietnam (General Director, Assistant Senior Manager)
 - Sharp NSN Energy Solutions JSC (Vietnam) (CEO, Sales & Marketing Manager)
 - Sharp NSN Energy Solutions Corporation (Japan) (Manager)
 - Japan NUS Co., Ltd. (Consultants)
- ✧ Meeting agenda:
 - Opening Remarks
 - Project background and objectives
 - Project overview
 - Technology introduced
 - GHG emissions reduction
 - Project implementation system
 - About JCM projects and MRV procedure
 - QA
 - Closing remarks

Received comments and questions from the local stakeholders, along with the responses by the project participant, are presented in the following section.

It is to be noted that the Vietnamese Joint Committee members were also invited to the meetings, but they could not attend them. The meetings' materials have been shared with the Joint Committee members as well and no additional comments were received.

E.2 Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
BIDV SuMi Trust Leasing – Senior Associate	Will on-site validation audits be conducted as necessary for project registration?	A third-party organization will determine the necessity at the PDD confirmation stage. Furthermore, on-site audit will be mandatory at the verification stage next year.

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
01.0		First edition