JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

9MW Solar Power Project in Yungay, Biobio Region

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

The proposed project in Yungay, Biobio Region is to implement a 9MW solar power plant approximately 500 km south of Santiago International Airport. The project is expected to reduce greenhouse gas (GHG) emissions by replacing the electricity consumption from the grid with that of the PV system.

A.3. Location of project, including coordinates

Country	The Republic of Chile
Region/State/Province etc.:	Biobio Region
City/Town/Community etc:	Yungay
Latitude, longitude	37°07'48.0"S 72°01'48.0"W

A.4. Name of project participants

The Republic of Chile	Eurus Energy Chile SpA Solar Ti Quince SpA
Japan	Eurus Energy Holdings Corporation

A.5. Duration

Starting date of project operation	27/03/2024
Expected operational lifetime of project	17 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 project in order to acquire JCM credits.

B. Application of an approved methodology(ies)

B.1. Selection of methodology(ies)

Selected approved methodology No.	CL_AM001
Version number	Ver2.0

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

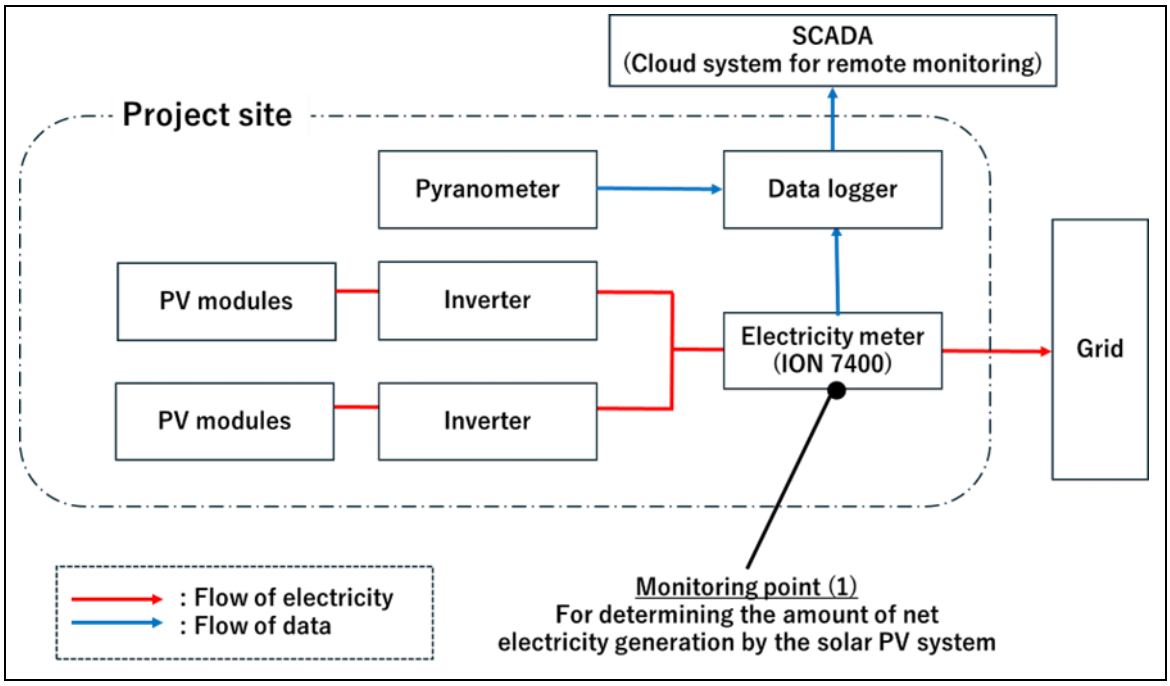
Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project newly installs solar PV system(s).	The Project has newly installed a 9MW solar PV system.
Criterion 2	The PV modules are certified for design qualifications (IEC 61215, IEC 61646 or IEC 62108) and safety qualification (IEC 61730-1 and IEC 61730-2).	Introduced PV modules comply with design qualifications (IEC 61215) and safety qualifications (IEC 61730-1 and IEC 61730-2)
Criterion 3	The equipment used for monitoring output power of the solar PV system(s) and irradiance is installed at the project site.	The monitoring equipment for output power and irradiance of the solar PV system has been installed at the project site.

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	CO_2
Project emissions	
Emission sources	GHG type
Generation of electricity from 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_2e)	Estimated Project Emissions (tCO_2e)	Estimated Emission Reductions (tCO_2e)
2024	5,373.7	0.0	5,373
2025	8,193.2	0.0	8,193
2026	8,193.2	0.0	8,193
2027	8,193.2	0.0	8,193
2028	8,193.2	0.0	8,193
2029	8,193.2	0.0	8,193
2030	8,193.2	0.0	8,193
Total (tCO_2e)			54,531

D. Environmental impact assessment	
Legal requirement of environmental impact assessment for the proposed project	YES

E. Local stakeholder consultation

E.1. Solicitation of comments from local stakeholders

Date and Time：Nov. 8th, 2024 (Fri), from 9:00 – 09:30 (Chile time)
Venue：Online (Teams)
Language：English
Participants：7 people (Rimini Solar SpA, Solar Ti Quince SpA , Eurus Energy Chile SpA, Eurus Energy Holdings Corporation, Nippon Koei Co., Ltd.)

Agenda：
1) Opening remarks and introduction of participants
2) Introduction of JCM procedure
3) Explanation of projects overview and technology introduced at the solar power plants
4) Questions and answers
5) Closing remarks

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
Rimini Solar SpA, Solar Ti Quince SpA	Gratitude for the collaboration with JCM projects and agreed with the results.	No action is needed.

F. References

Resolución de Calificación Ambiental (Environmental Qualification Resolution), April 19, 2021

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

Annex

Revision history of PDD

Version	Date	Contents revised
01.0	4/2/2025	First edition