JCM Project Design Document Form

A. Project description

A.1. Title of the JCM project

3MW Solar Power Project Utilizing Farmland in Maule Region

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

The proposed project in Cauquenes, Maule Region is a 3MW solar power plant. The project site is located in the approximately 400 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.:	Maule Region
City/Town/Community etc:	Cauquenes
Latitude, longitude	S 35° 58' 06.6" and W 72° 22' 29.7"

A.4. Name of project participants

The Republic of Chile	Land and Sea SpA Farmdo Energy Chile SpA
Japan	FARMLAND Co., Ltd. Farmdo Co., Ltd.

A.5. Duration

Starting date of project operation	03/07/2024
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. Implementation of the proposed project also contributes to the promotion of renewable energy in Chile.

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

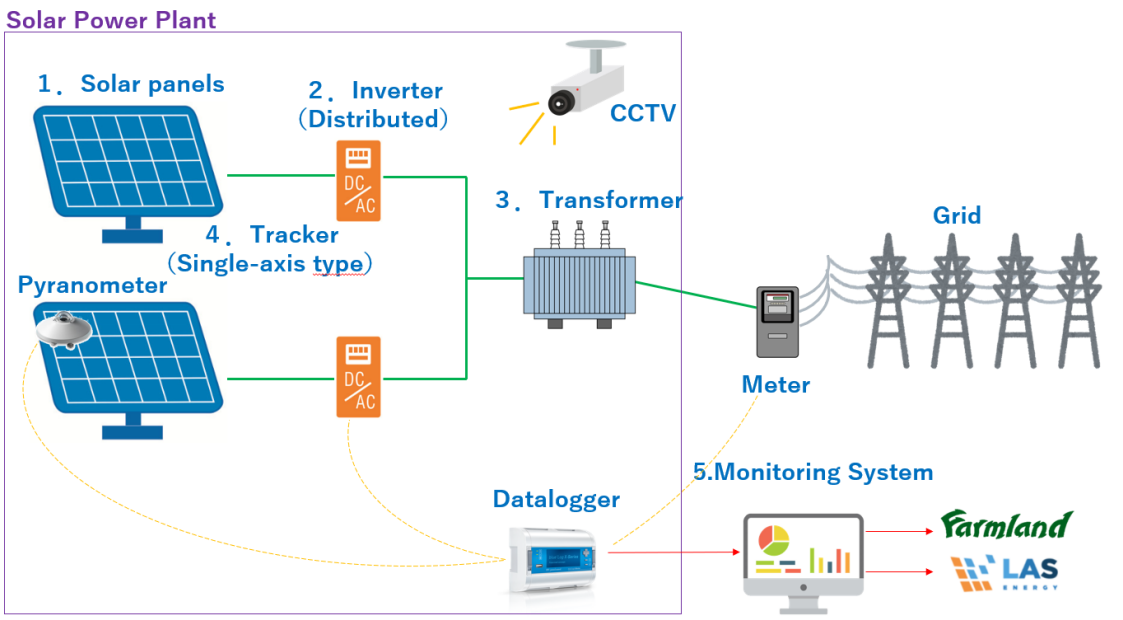
Eligibility criteria	Descriptions specified in the methodology	Project information
Criterion 1	The project newly installs solar PV system(s).	A 3MW solar power plant is newly installed by the project.
Criterion 2	The PV modules are certified for design qualifications (IEC 61215, IEC 61646 or IEC 62108) and safety qualification (IEC 61730-1 and IEC 61730-2).	The PV modules are certified for design qualifications (IEC 61215) and safety qualification (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 equipment used for monitoring output power of the solar PV system(s) and irradiance 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	2,488.9	0	2,488
2025	2,488.9	0	2,488
2026	2,488.9	0	2,488
2027	2,488.9	0	2,488
2028	2,488.9	0	2,488
2029	2,488.9	0	2,488
2030	2,488.9	0	2,488
Total (tCO_2e)			17,416

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

Date and Time：Dec. 18th, 2024 (Wed), from 8:30 – 09:40 (Chile time)

Venue：Online by Zoom
Language：Spanish with interpretation (English)
Participants：36 people (Ministry of Energy in Chile, EPC company, Solar power plant development company, PV panel manufacturer, PV Tracker manufacturer, Monitoring equipment manufacture, Power distribution company, Construction management company, Landowner, Accounting firm, Audit firm, Investors, Farmdo Energy Chile SpA, Land and Sea SpA, FARMLAND Co., Ltd., etc.)

Agenda：
1) Opening remarks and introduction of participants
2) Overview of the project
3) Concept of JCM and MRV methodology for the project
4) Questions and answers
5) Closing remarks

E.2. Summary of comments received and their consideration

Stakeholders	Comments received	Consideration of comments received
Ministry of Energy in Chile	If you have any specific questions about JCM projects, you can also contact the Chilean government directly and we can try to resolve the questions.	No action is needed.
Ministry of Energy in Chile	If batteries are installed on the existing solar PV plant, is it a new project to be subsidized under the new guidelines?	Solar PV combined with battery storage is regarded as a different technology and can still be subsidized in Chile by JCM model project scheme. Batteries only projects may also be accepted when it contributes to the emission reductions. No action is needed.
Investor	Are there minimum requirements for the JCM project in terms of scale?	There is no minimum requirement as such. No action is needed.
Investor	How long does it take for JCM subsidization and approval process?	JCM model projects need to be completed in 3 years. Registration for

		this project is expected to speed up. No action is needed.
Investor	Is the additionality criteria needed for eligibility for the JCM scheme?	It is not the requirement now, while we understand that additionality may be considered in compliance with Chilean policy on ITMOs (Internationally Transferred Mitigation Outcomes). No action is needed.
FARMLAND Co., Ltd.	Thanked all the participants for the collaboration with the JCM project.	No action is needed.

F. References

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

Annex

Revision history of PDD

Version	Date	Contents revised
01.0	12/03/2025	First edition