

JCM Sustainable Development and Safeguards Assessment Report Form

Project description	
Title	Introduction of 0.8MW Solar Power System and High Efficiency Refrigerator to Food Factory
Project participant (Thai)	Thai Delmar Co., Ltd.
Project participant (Japanese)	Kanematsu KGK Corp.
Project location	88/8 Asia Industrial Estate Suvarnabhumi, Moo.4, Soi Asia Avenue 2, T.Klong Suan, A.Bang Bo, Samutprakarn 10560
Latitude, longitude	N 13° 40' 2.32" E 100° 54' 24.27"
Project status	On-going

Report description		
Date of report completion	31 January 2025	
Version	Ver.1.0	
Corresponding author	Name	SHUHEI MORITA
	Title	GX Sales dept.
	Organization	Kanematsu KGK Corp.
	Telephone	
	E-mail	

Note:

- Related figures, documents, evidence related to the description may be attached as attachment.
- In the case where there is any other relevant issue that needs to be considered, it is specified in the last row of each area of assessment.

Certification letter

31/01/2025

I, the undersigned, hereby certify that SHUHEI MORITA is the author of the “Sustainable Development and Safeguards Assessment Report Form” of the project titled “Introduction of 0.8MW Solar Power System and High Efficiency Refrigerator to Food Factory” developed by Thai Delmar Co., Ltd. located at 88/8 Asia Industrial Estate Suvarnabhumi, Moo 4, Soi Asia Avenue 2, T.Klong Suan, A.Bang Bo, Samutprakarn 10560.

The report was prepared by the team members as follows:

No.	Name	Position
1	JUN NAGAWA	General Manager
2	SHUHEI MORITA	Project Manager
3		

Signature

Position General Manager

Seal (if any)

Part 1: General information of the project area before project implementation

Area of Assessment	Description
1. Environment and natural resources	
1.1 Air pollution	Not identified.
1.2 Water pollution	Not identified.
1.3 Soil pollution	Not identified.
1.4 Noise pollution	Not identified.
1.5 Odor pollution	Not identified.
1.6 Water consumption	Not identified.
1.7 Solid waste/municipal solid waste	Not identified.
1.8 Hazardous waste/infectious waste/electronic waste	Not identified.
1.9 Energy (i.e. Wasted Energy, Renewable Energy)	Not identified.
1.10 Land Use	Not identified.
1.11 Biodiversity	Not identified.
1.12 Wild animal/ Aquatic ecosystem	Not identified.
1.13 Other (Please specify...)	Not identified.
2. Society	
2.1 Socio -cultural characteristics	Not identified.
2.2 Health and safety	Not identified.
2.3 Traditions, cultures and/or valuable places worthy of conservation	Not identified.
2.4 Race, religion, and ethnic Group	Not identified.
2.5 Transportation	Not identified.
2.6 Other (Please specify...)	Not identified.
3. Economic	
3.1 Overall local economy (i.e. income, expenditure, etc.)	Not identified.
3.2 Employment/Career	Not identified.
3.3 Major agricultural activity in the area	Not identified.
3.4 Major industry in the area	Not identified.

Area of Assessment	Description
3.5 Major service sector in the area	Not identified.
3.6 Basic infrastructure (i.e. road, school, etc.)	Not identified.
3.7 Other (Please specify...)	Not identified.

**Project Participant explains in detail of provenance and importance of issue consider about before project implement and specify if the project is rightful/environmental law, social, and economy. To have Negative impact assessment (Do-no-net-harm) with supporting documents.*

Part2 Sustainable Development Goals

2.1 Sustainable Development Contributions Assessment

Please mark ✓ in ☐ to identify the contributions of the proposed project to specific SDG. The project is required to contribute to at least two SDGs, **in addition to** SDG13: Climate Action.

Project Contributions to SDGs	Indicator (Please specify)	Description of Indicator
<input type="checkbox"/> SDG 1: No Poverty		
<input type="checkbox"/> SDG 2: Zero Hunger		
<input type="checkbox"/> SDG 3: Good Health and Well-being		
<input type="checkbox"/> SDG 4: Quality Education		
<input type="checkbox"/> SDG 5: Gender Equality		
<input type="checkbox"/> SDG 6: Clean Water and Sanitation		
<input checked="" type="checkbox"/> SDG 7: Affordable and Clean Energy	Monitoring data of the solar power plant.	The project contributes to reducing fossil fuel consumption by the solar power.
<input type="checkbox"/> SDG 8: Decent Work and Economic Growth		
<input type="checkbox"/> SDG 9: Industry, Innovation and Infrastructure		
<input type="checkbox"/> SDG 10: Reduced Inequality		
<input type="checkbox"/> SDG 11: Sustainable Cities and Communities		
<input type="checkbox"/> SDG 12: Responsible Consumption and Production		
<input checked="" type="checkbox"/> SDG 13: Climate Action	Issuing JCM credits.	The project contributes to reducing the emission of GHG.
<input type="checkbox"/> SDG 14: Life Below Water		
<input type="checkbox"/> SDG 15: Life on Land		

Project Contributions to SDGs	Indicator (Please specify)	Description of Indicator
<input type="checkbox"/> SDG 16:Peace and Justice Strong Institutions		
<input checked="" type="checkbox"/> SDG 17:Partnerships to achieve the Goal	Issuance and allocationof JCM credits.	The project contributes to developing a partnership between Thailand and Japan.

**Project Participant provides the description for each indicator of the selected SDGs and presents currently available datasets along with supporting documents.*

Part 3 Do no net harm

3.1 'Do no net harm' Risk Assessment and Safeguards

Potential Impact of Project Activity	Level of Impact Severity				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
1. Impacts on Environment and Natural Resources						
1.1 Physical resources						
Water pollution	✓					
Soil pollution	✓					
Air pollution	✓					
Noise pollution	✓					
Odor pollution	✓					
Soil erosion, coastal/river erosion	✓					
Vulnerability to natural disaster	✓					
Other	✓					
1.2 Waste management						
Increase in solid waste/municipal solid waste	✓					

Potential Impact of Project Activity	Level of Impact Severity				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
Increase in hazardous waste such as waste contaminated with oil, chemicals and used oil etc.	✓					
Increase in infectious waste	✓					
Increase in electronic waste	✓					
Other	✓					
1.3 Biological resources						
Impacts on forest areas and land-use change	✓					
Loss of land and wildlife ecosystem	✓					
Loss of water resources and aquatic ecosystem	✓					
Foraging	✓					
Food	✓					
Other	✓					
1.4 Human livelihood						

Potential Impact of Project Activity	Level of Impact Severity				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
Water drainage or waterway diversion	✓					
Change in water consumption	✓					
Change in land ownership	✓					
Other	✓					
2. Social impacts						
Public security such as increase in crime risks	✓					
Health impacts	✓					
Relocation or temporary/permanent loss of land	✓					
Loss of housing	✓					
Impact on public utilities such as electricity, telephone service etc.	✓					
Impact on traffic	✓					
Community conflict	✓					
Employment and labor	✓					

Potential Impact of Project Activity	Level of Impact Severity				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
Impact on people of certain race, religion and ethnic groups	✓					
Damage to areas of high conservation value, such as religious sites, historic sites, monuments, important places of the community etc.	✓					
Impact on human rights such as education, freedom of thought, religion etc.	✓					
Gender inequality such as in employment opportunities, salary, promotion, benefits, termination of contract etc.	✓					
Other	✓					
3. Economic impacts						
Increase unemployment /loss of income of people in local communities	✓					

Potential Impact of Project Activity	Level of Impact Severity				Description of Impact	Action Plan to mitigate harmful impacts
	None	Low	Moderate	High		
Other	✓					

*Criteria for assessing the level of impact severity

1. None: The proposed activity has no direct/ indirect impacts on the environment, society and economy.

2. Low: The proposed activity causes some changes to the existing conditions but has no implication on the quality of the environment, society and economy. The impact is short-lived and temporary, and the extent of the affected area is not large (1km perimeter).

3. Moderate: The proposed activity causes some changes to the existing conditions and has implications on values or qualities of the environment, society and economy. The impact is short-lived and temporary. The extent of the affected area is large but confined to the related area (2km perimeter).

4. High: The proposed activity causes some changes to the existing conditions and has implications on value or quality of the environment, society, economy, and potentially the ecosystem. The impact is permanent and the extent of the affected area is extensive (3km perimeter).