

**JCM Sustainable Development and Safeguards Assessment Report**

| <b>Project description</b>     |   |
|--------------------------------|---|
| Title                          | Introduction of 5MW Rooftop Solar Power System to Aluminum Building Materials Factory                                 |
| Project participant (Thai)     | SMFL Leasing (Thailand) Co., Ltd.<br>Tostem Thai Co., Ltd.  |
| Project participant (Japanese) | Sumitomo Mitsui Finance and Leasing Co., Ltd.   |
| Project location               | 60/2 Soi Navanakorn 11, Navanakorn Zone2 Moo19, Phaholyothin Road, Klongnueng, Klongluang, Pathumtani 12120, Thailand |
| Latitude, longitude            | N14.11105, E100.58912   |
| Project status                 | Operated since 12/7/2022  |

| <b>Report description</b> |                  |   |
|---------------------------|------------------|---|
| Date of report completion | 25 November 2025 |   |
| Version                   | 1.0              |   |
| Corresponding author      | Name             | Taku Ishimatsu                                |
|                           | Title            | General Manager                               |
|                           | Organization     | Sumitomo Mitsui Finance and Leasing Co., Ltd. |
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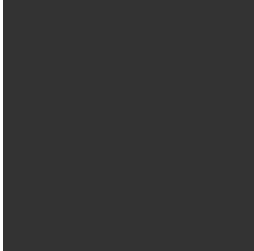
**Note:**

- 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 be specified in the last row of each area of assessment.

**Certification letter**25/11/2025

I, the undersigned, hereby certify that Sumitomo Mitsui Finance and Leasing Co., Ltd. is the author of the “Sustainable Development and Safeguards Assessment Report” of the project titled “Introduction of 5MW Rooftop Solar Power System to Aluminum Building Materials Factory” developed by Sumitomo Mitsui Finance and Leasing Co., Ltd., SMFL Leasing (Thailand) Co., Ltd. and Tostem Thai Co., Ltd. located at 60/2 Soi Navanakorn 11, Navanakorn Zone2 Moo19, Phaholyothin Road, Klongnueng, Klongluang, Pathumtani 12120, Thailand.

The report was prepared by the team members as follows:

| No. | Name                  | Position                      | Signature  |
|-----|-----------------------|-------------------------------|--|
| 1   | <u>Taku Ishimatsu</u> | <u>General Manager</u>        |  |
| 2   | <u>Toru Takahashi</u> | <u>Vice President</u>         |  |
| 3   | <u>Yusuke Kato</u>    | <u>Deputy General Manager</u> |  |

Signature

( Taku Ishimatsu )

Position

General Manager

Seal (if any)

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

*Provide baseline information describing the conditions before project implementation. This data is essential for assessing the project's environmental, social, and economic impacts. Ensure the details are accurate and comprehensive to support a thorough evaluation.*

| Area of Assessment                                    | Description  |
|---|--|
| <b>1. Environment and natural resources</b>           |  |
| 1.1 Air pollution                                     | The project site is located inside an aluminum building materials factory in Pathumthani. There was no significant air pollution in the area.                                      |
| 1.2 Water pollution                                   | No surface water and ground water pollution problem was found in the area.   |
| 1.3 Soil pollution                                    | No soil pollution was found in the area.   |
| 1.4 Noise pollution                                   | No point sources of noise pollution were found in the area.  |
| 1.5 Odor pollution                                    | No odor was found in the area.   |
| 1.6 Water consumption                                 | Industrial water was consumed within the capacity of water supply in the area.   |
| 1.7 Solid waste/municipal solid waste                 | Waste from the project site was properly collected. There was no leftover problem in the area.   |
| 1.8 Hazardous waste/infectious waste/electronic waste | No pollution from hazardous waste/infectious waste /electronic waste was found in the area.  |
| 1.9 Energy (i.e. Wasted Energy, Renewable Energy)     | The factories used electricity from power grid.  |
| 1.10 Land Use   | Land use was not relevant because the project is located on the rooftops of factory buildings.   |
| 1.11 Biodiversity                                     | Biodiversity was not relevant because the project is located on the rooftops of factory buildings.   |
| 1.12 Wild animal/ Aquatic ecosystem                   | No wild animal or aquatic ecosystem was found in the area.   |
| 1.13 Other (Please specify...)                        | -  |
| <b>2. Society</b>                                     |  |
| 2.1 Socio-cultural characteristics                    | Socio cultural characteristics were those of a typical central region of Thailand. The society comprises largely of the working class who engage in manufacturing and office work. |

| Area of Assessment |  | Description   |
|--------------------|--|---|
| 2.2                | Health and safety  | There was no major concern in terms of health and safety in the area.   |
| 2.3                | Traditions, cultures and/or valuable places worthy of conservation | The tradition and cultural values of the people in the area are commonly found in the central region of Thailand. There were no distinctive places of high conservation values. |
| 2.4                | Race, religion, and ethnic group                                   | Most of the population in the area were of Thai origin who practice Buddhism.   |
| 2.5                | Transportation   | The primary mode of transportation in the area was private and corporate vehicles.  |
| 2.6                | Other (Please specify...)  | -   |
| <b>3. Economic</b> |  |   |
| 3.1                | Overall local economy (i.e. income, expenditure, etc.)             | The local economy in the area is largely driven by the manufacturing sector.  |
| 3.2                | Employment/Career  | Factory workers, clerical workers.  |
| 3.3                | Major agricultural activity in the area                            | No large agricultural activity in the area was found.   |
| 3.4                | Major industry in the area   | Manufacturing is the most prevalent in the area.  |
| 3.5                | Major service sector in the area                                   | Wholesale and retail trade and repair of motor vehicles and motorcycle are the most prevalent in the area.  |
| 3.6                | Basic infrastructure (i.e. road, school, etc.)                     | The basic infrastructure in the area included transportation (road network), utilities (electricity, water supply, waste management), as well as telecommunications.            |
| 3.7                | Other (Please specify...)  | -   |

*\*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.*

## Part 2 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  | Amount of generated clean energy (Unit: MWh) | Increase share of renewable energy in national energy mix |
| <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              |  |   |
| <input type="checkbox"/> SDG 14: Life Below Water                       |  |   |
| <input type="checkbox"/> SDG 15: Life on Land                           |  |   |

| Project Contributions to<br>SDGs  | Indicator<br>(Please specify)           | Description of Indicator  |
|---|---|---|
| <input type="checkbox"/> SDG 16: Peace and<br>Justice Strong<br>Institutions    |   |   |
| <input checked="" type="checkbox"/> SDG 17: Partnerships to<br>achieve the Goal | Last progress report<br>submission date | Operational continuity of the<br>JCM project, which mobilizes<br>additional financial resources,<br>disseminates low-carbon<br>technologies, and reduces GHG<br>emissions in Thailand |

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

## 2.2 Details on Monitoring Parameters for Demonstrating SDG Contributions

*Provide details on how to monitor the indicators identified in Section 2.1.*

*(Tables can be added based on the number of selected SDGs.)*

|                       |  |
|-----------------------|--|
| SDG Number            | 7  |
| SDG Target            | Affordable and Clean Energy                  |
| Variable or Indicator | Amount of generated clean energy (Unit: MWh) |
| Duration/Frequency    | Monthly                                      |
| Method/Tool           | Power meter                                  |
| Responsible person    | Engineer of Tostem Thai Co., Ltd.            |

|                       |  |
|-----------------------|--|
| SDG Number            | 17   |
| SDG Target            | Partnerships to achieve the Goal                                 |
| Variable or Indicator | Last progress report submission date                             |
| Duration/Frequency    | Yearly   |
| Method/Tool           | -  |
| Responsible person    | Project Manager of Sumitomo Mitsui Finance and Leasing Co., Ltd. |

## Part 3 Do no net harm

### 3.1 'Do no net harm' Risk Assessment and Safeguards

*Specify impacts and mitigation plans to mitigate negative impacts.*

| Potential Impact<br>of Project Activity         | Severity Level of Impact |     |          |      | 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<br>of Project Activity  | Severity Level of Impact |     |          |      | 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   |                          | ✓   |          |      | After the installed solar PV modules reach the end of their useful life, which is expected to be several years after the project period ends, it will become necessary to dispose of them. | Since solar PV modules may contain hazardous substances, we plan to dispose of them appropriately in accordance with Thai regulations at the time of disposal.<br><br>If recycling facilities for solar PV modules are available at that time, we will prioritize recycling them as part of our business efforts. |
| Other  | ✓                        |     |          |      |  |   |
| <b>1.3 Biological resources</b>  |                          |     |          |      |  |   |
| Impacts on forest areas and land-use change  | ✓                        |     |          |      |  |   |
| Loss of land and wildlife ecosystem  | ✓                        |     |          |      |  |   |



| Potential Impact<br>of Project Activity         | Severity Level of Impact |     |          |      | Description of Impact | Action Plan to mitigate harmful impacts |
|---|--------------------------|-----|----------|------|-----------------------|---|
|   | None                     | Low | Moderate | High |                       |   |
| Loss of water resources and aquatic ecosystem   | ✓                        |     |          |      |                       |   |
| Foraging  | ✓                        |     |          |      |                       |   |
| Food  | ✓                        |     |          |      |                       |   |
| Other   | ✓                        |     |          |      |                       |   |
| <b>1.4 Human livelihood</b>                     |                          |     |          |      |                       |   |
| Water drainage or waterway diversion            | ✓                        |     |          |      |                       |   |
| Change in water consumption                     | ✓                        |     |          |      |                       |   |
| Change in land ownership                        | ✓                        |     |          |      |                       |   |
| Other   | ✓                        |     |          |      |                       |   |
| <b>2. Social impacts</b>                        |                          |     |          |      |                       |   |
| Public security such as increase in crime risks | ✓                        |     |          |      |                       |   |
| Health impacts                                  | ✓                        |     |          |      |                       |   |
| Relocation or temporary/permanent loss of land  | ✓                        |     |          |      |                       |   |
| Loss of housing                                 | ✓                        |     |          |      |                       |   |

| Potential Impact<br>of Project Activity  | Severity Level of Impact |     |          |      | Description of Impact | Action Plan to mitigate harmful impacts |
|--|--------------------------|-----|----------|------|-----------------------|---|
|  | None                     | Low | Moderate | High |                       |   |
| Impact on public utilities such as electricity, telephone service etc.   | ✓                        |     |          |      |                       |   |
| Impact on traffic  | ✓                        |     |          |      |                       |   |
| Community conflict   | ✓                        |     |          |      |                       |   |
| Employment and labor   | ✓                        |     |          |      |                       |   |
| 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.                       | ✓                        |     |          |      |                       |   |

| Potential Impact<br>of Project Activity                                    | Severity Level of Impact |     |          |      | Description of Impact | Action Plan to mitigate harmful impacts |
|--|--------------------------|-----|----------|------|-----------------------|---|
|  | None                     | Low | Moderate | High |                       |   |
| Other  | ✓                        |     |          |      |                       |   |
| <b>3. Economic impacts</b>   |                          |     |          |      |                       |   |
| Increase unemployment /loss of<br>income of people in local<br>communities | ✓                        |     |          |      |                       |   |
| 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).

### 3.2 Details on Monitoring Parameters for Ensuring No Negative Impacts

*Provide details on how to monitor the impacts identified in Section 3.1.*

*(Tables can be added based on the number of negative impacts identified)*

|                                       |   |
|---------------------------------------|---|
| <b>Category of negative impact</b>    | Waste management  |
| <b>Subcategory of negative impact</b> | Increase in electronic waste  |
| <b>Vulnerable group</b>               | People and the environment around solar PV module disposal sites  |
| <b>Possible negative impact</b>       | Harmful substances leaking from improperly disposed solar PV modules can pollute the surrounding environment and pose health risks to nearby residents. |
| <b>Parameter/indicator</b>            | Number of PV modules properly disposed of   |
| <b>Reference</b>                      | Relevant Thai regulations, including the Notification of Ministry of Industry / Subject: Management of Waste or Unused Materials, B.E. 2566 (2023)      |
| <b>Duration/frequency</b>             | Yearly  |
| <b>Method/Tools</b>                   | Apply the method in accordance with Thai regulations at the time of disposal.   |
| <b>Responsible person</b>             | Engineer of Tostem Thai Co., Ltd.   |
| <b>Expected outcome</b>               | Solar PV modules containing hazardous materials are disposed of properly, thereby protecting the environment and people around the disposal sites.      |

|                                       |  |
|---------------------------------------|--|
| <b>Category of negative impact</b>    |  |
| <b>Subcategory of negative impact</b> |  |
| <b>Vulnerable group</b>               |  |
| <b>Possible negative impact</b>       |  |
| <b>Parameter/indicator</b>            |  |
| <b>Reference</b>                      |  |
| <b>Duration/frequency</b>             |  |
| <b>Method/Tools</b>                   |  |
| <b>Responsible person</b>             |  |
| <b>Expected outcome</b>               |  |