# JCM Opportunities and Challenges in the Philippines

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### **JCM Overview**

promote low-carbon technologies and contribute to global emissions reduction.

Mechanism to transfer

Japanese technology while creating carbon credits shared between Japan and partner countries.

Partnership between Japan and the Philippines since 2017.





# Philippine NDC Sectors and Eligible JCM Projects

Philippine NDC 75% GHG emissions reduction by 2030 (conditional and unconditional).	Eligible JCM Projects
Energy	<ul> <li>Energy-efficient equipment (e.g., high-efficiency chillers, boilers).</li> </ul>
Transport	<ul><li>Renewable energy (e.g., solar PV, biomass, hydropower).</li></ul>
Industry Waste	<ul> <li>Advanced waste management systems (e.g., biogas, incineration with energy recovery).</li> </ul>
Agriculture	<ul> <li>Carbon capture and storage (CCS) technologies.</li> </ul>
Forestry	<ul> <li>Low-carbon transport solutions (e.g., e-vehicles, hydrogen-powered transport).</li> </ul>



## **Opportunities for the Philippines**

#### • Energy:

- Renewable energy deployment: Solar PV, wind turbines, biomass power plants.
- Energy-efficient equipment in power plants (e.g., advanced turbines).

#### • Industry:

- High-efficiency chillers and boilers for manufacturing facilities.
- Carbon capture and utilization in cement and steel production.

#### • Transport:

- Electric vehicles and charging infrastructure.
- Hydrogen-powered buses and trucks.

#### Waste Management:

- Waste-to-energy technologies for municipal solid waste.
- Methane capture and biogas utilization from landfills and wastewater.

#### Agriculture:

Methane reduction technologies in rice paddies and livestock.



## 11 JCM Model Projects of Joint Crediting Mechanism (JCM) FY 2021

No.	Partner Country	Project Name	Representative Participant	Estimated GHG Reduction (tCO2/year
1	Vietnam	Waste to Energy project in Bac Ninh Province	JFE Engineering Corporation	41,805
2	Vietnam	10MW Rice Husk Power Plant Project in Hau Giang Province	Electric Power Development Co., Ltd.	22,315
3	Vietnam	Introduction of 9MW Rooftop Solar Power System to Factories	Sharp Energy Solution Corporation	3,618
4	Vietnam	Introduction of High Efficiency LED Lighting with Dimming and Tunable Function to Office Building in Ho Chi Minh City	ENDO Lighting Corporation	196
5	Indonesia	Introduction of 3.3MW Rooftop Solar Power System in Woodworking Factories	Sumitomo Forestry Co., Ltd.	2,396
6	Indonesia	Introduction of High-Efficiency Thermal Oil Heater System in Chemical Factory	FUMAKILLA LIMITED	1,942
7	Mexico	20MW Solar Power Project in Guanajuato	Sharp Energy Solution Corporation	20,023
8	Thailand	Introduction of High Efficiency Once Through Boiler to Garment Factory	Osaka Gas Co., Ltd.	2,665
9	Thailand	Installation of High Efficient Chiller System and PV System for On-Site Energy Supply in Motorcycle Factory	NIPPON STEEL ENGINEERING CO., LTD.	1,144
10	Philippines	60MW Solar Power Project in Cordon, Isabela	MITSUI & CO., LTD.	44,860
11	Philippines	Tanawon 20MW Flash Geothermal Power Plant Project	Mizuho-Toshiba Leasing Company Ltd.	38,312





## **Key Challenges**

Awareness

Of the JCM Project

Partnerships

Challenges in finding Japan Private Sector Partners

Capability

To go through application process



## **JCM Project Cycle**

<Terminology> **Project Participant** Submission of PIN\* PIN (Project Idea Note): A document used to explain the outline of Joint Committee Confirmation of no objection the project to the partner country and confirm whether there is an Project Participant / **Submission of Proposed** objection. **Each Government** Methodology PDD (Project Design Joint Committee Document): A document that includes monitoring Approval of Proposed methods and estimated Joint Committee Methodology emission reductions. by the same TPE Required for project simultaneously registration. **Project Participant Development of PDD\*** <Note> Validation **Third Party Entities** For the latest information on JCM rules and guidelines, including the PIN Registration conducted Joint Committee conducted procedures adopted with each Partner Country, please refer to each Monitoring **Project Participant** partner country page on the JCM website. Can be Verification **Third Party Entities** Joint Committee decides the amount Issuance of credits Each Government issues the credit

