

# JCM Opportunities and Challenges in the Philippines

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# JCM Overview

Established by Japan to **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

<b>Philippine NDC</b> 75% GHG emissions reduction by 2030 (conditional and unconditional).	<b>Eligible JCM Projects</b>
Energy  Transport  Industry  Waste  Agriculture  Forestry	<ul style="list-style-type: none"><li>▪ Energy-efficient equipment (e.g., high-efficiency chillers, boilers).</li><li>▪ Renewable energy (e.g., solar PV, biomass, hydropower).</li><li>▪ Advanced waste management systems (e.g., biogas, incineration with energy recovery).</li><li>▪ Carbon capture and storage (CCS) technologies.</li><li>▪ Low-carbon transport solutions (e.g., e-vehicles, hydrogen-powered transport).</li></ul>

# Opportunities for the Philippines

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- **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 (tCO <sub>2</sub> /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

