



Japan's Policy for Carbon Neutrality and the Role of JCM (Joint Crediting Mechanism)

August 25, 2022 Ministry of the Environment ,Japan

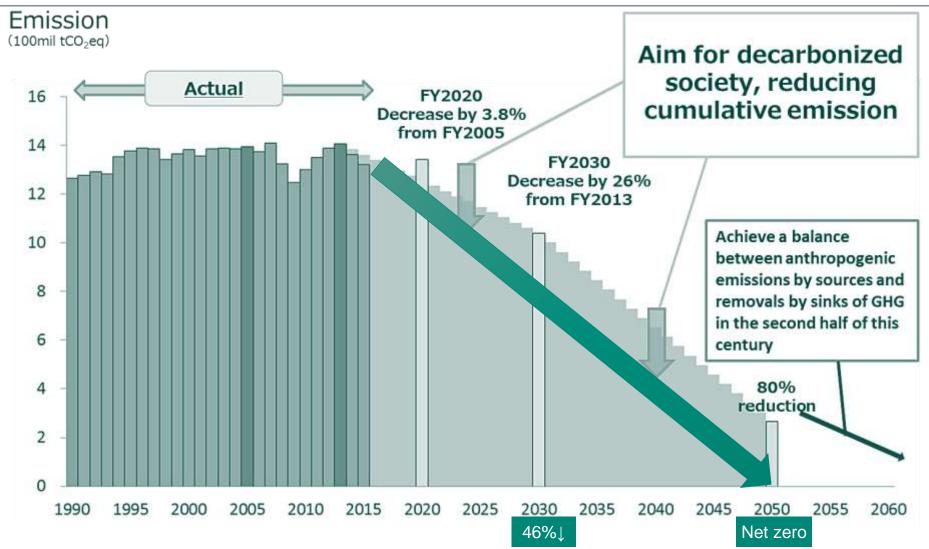




GHG emissions and target in Japan

- **Long-term goal**: Net zero emissions by 2050 compared to 2013
- □ Mid-term target: 46% emission reduction by 2030 compared to 2013
- **GHG** emissions in 2020: 1,149 mil ton of CO_2 eq. (5.0% reduction to 2019, 18.4% reduction to 2013)

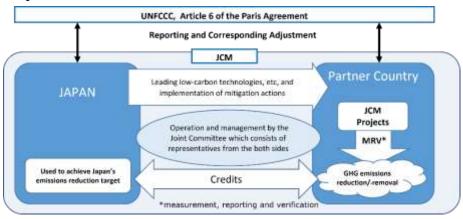
JCM target: <u>cumulative GHG emission reduction for 100 mil tons</u> of CO2 eq. by 2030





The Joint Crediting Mechanism (JCM)

- Since 2013, Japan has established the JCM with 17 partner countries and over 200 projects have been selected.
- Under the JCM scheme, Japan is facilitating diffusion of leading decarbonizing technologies and infrastructure, etc. as well as implementation of mitigation actions in partner countries. The JCM contribute to the achievement of both countries' NDCs while ensuring the avoidance of double counting through corresponding adjustments.









JCM targets

- Aiming to contribute to international emission reductions and removals at the level of <u>a cumulative</u> <u>total of approximately 100 million t-CO2 by fiscal year 2030</u> through public-private collaborations. (October 2021, Cabinet Decision)
- As the implementation rules for Article 6 (market mechanisms) of the Paris Agreement was concluded at COP26, utilization of the JCM will be further explored.
- For achieving the target of the JCM, accelerating consultations to expand partner countries up to approximately <u>30 countries worldwide by around 2025 from the current 17 countries</u>. (June 2022, Cabinet Decision)



JCM Partner Countries

Japan has held consultations for the JCM with developing countries since 2011 and has established the JCM with Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Viet Nam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile, Myanmar, Thailand and the Philippines.



<u>Mongolia</u> Jan. 8, 2013



Bangladesh Mar. 19, 2013 (Dhaka)



<u>Ethiopia</u> May 27, 2013 (Addis Ababa)



<u>Kenya</u> Jun. 12, 2013 (Nairobi)



<u>Maldives</u> Jun. 29, 2013 (Okinawa)



<u>Viet Nam</u> Jul. 2, 2013 Oct.14, 2021 (Hanoi)



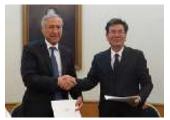
Lao PDR Aug. 7, 2013 (Vientiane)



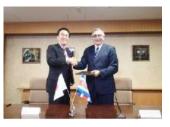
<u>Saudi Arabia</u> May 13, 2015



<u>Indonesia</u> Aug. 26, 2013 (Jakarta)



<u>Chile</u> May 26, 2015 (Santiago)



<u>Costa Rica</u> Dec. 9, 2013 (Tokyo)



<u>Myanmar</u> Sep. 16, 2015 (Nay Pyi Taw)



<u>Palau</u> Jan. 13, 2014 (Ngerulmud)



<u>Thailand</u> Nov. 19, 2015 (Tokyo)



<u>Cambodia</u> Apr. 11, 2014 (Phnom Penh)



<u>Philippines</u> Jan. 12, 2017 (Manila)



<u>Mexico</u> Jul. 25, 2014 (Mexico City)

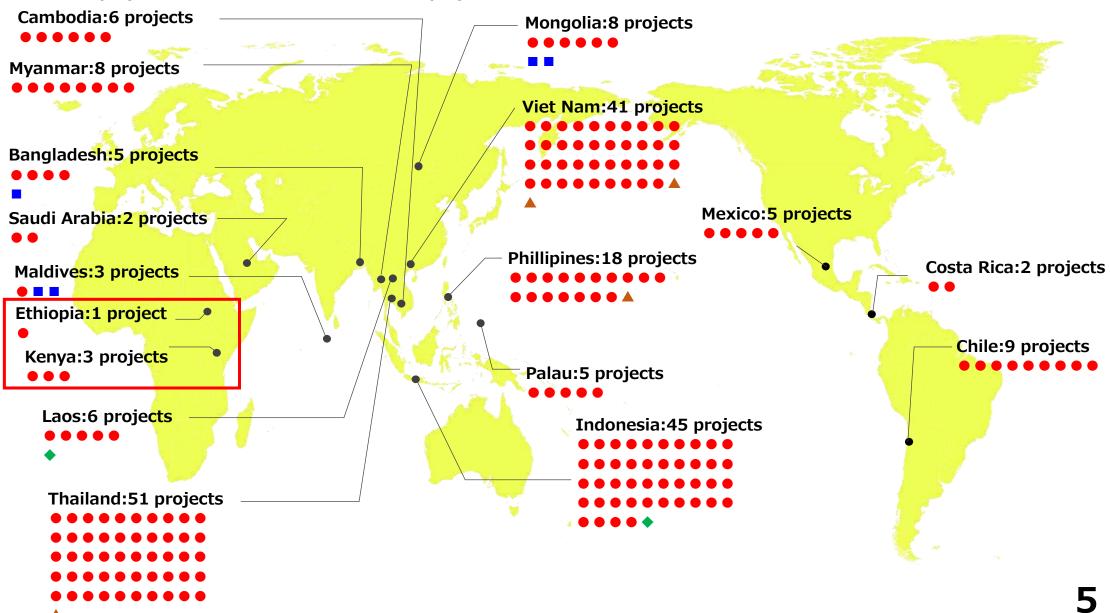


JCM Financing Programmes distribution (FY2013~2022) (August, 2022)

Total 218projects (17 partner countries)

(●Model Project: 207 projects(including Eco Lease: 5project), ADB: 5 projects, REDD+: 2 projects, AF-gas: 4 projects) Other 1 project in Malaysia **124 projects** have been started operation. **65 projects with** have been registered as JCM projects.

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Examples of the JCM Financing Programmes

Renewable Energy



Ltd., Chile



Floating Solar PV,TSB Co., Ltd.,Thailand



Farm Co., Ltd., Indonesia



Biomass Co-Generation System, Fuji-Foods Coporation, Thailand



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Binary Power Generation Project at Geothermal Power Plant, MHI, Ltd., Philippines

Energy efficiency [Industrial sector] Energy efficiency [Consumer sector] Energy saving at High-efficiency air-**Regenerative Burners in** Upgrading air-saving loom at **High-efficiency** textile factory, TORAY etc., industries, Toyotsu convenience stores, conditioning system, refrigerator, Mayekawa Indonesia, Thai, Bangladesh Machinery, Indonesia Panasonic, Indonesia MFG, Indonesia Hitachi, Daikin, Vietnam Waste Transport Energy efficiency [Urban sector] **CNG-Diesel Hybrid Public** Amorphous transformers in Power Generation with LED street lighting system with wireless network control, power distribution, Hitachi Waste to Energy Plant, Methane Gas Recovery Bus, Hokusan Co., Ltd., System, NTTDATA, Mexico JFE engineering, Myanmar MinebeaMitsumi, Cambodia Materials, Vietnam Indonesia



Technologies Transferred through JCM (FY2013-2022)

- Total of 218 JCM Projects being developed in 17 partner countries (August, 2022)
- 38% for energy efficiency, 52% for renewable energy, 4% for Effective use of Energy, Transport, Waste to energy, F-gas Recovery and Destruction and REDD+ project shares

Waste (4) 2%

- Waste to Energy
- Power Generation with Methane Gas

Effective Use of Energy (10) 4%

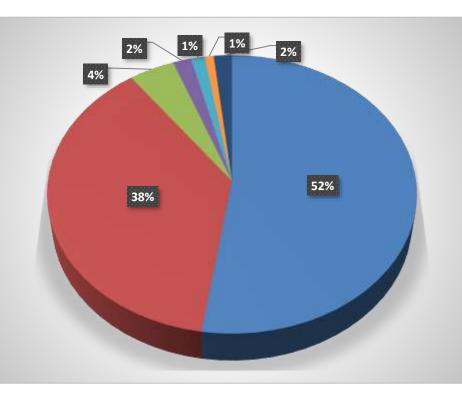
- Waste Heat Recovery
- Gas Co-generation

Energy efficiency (86) 38%

- Boiler
- Air Conditioning
- Refrigerating/Chiller
- Looms
- Transformer
- LED Lighting

Transport (3) 1%

- Digital Tachographs
- Modal Shift
- CNG-Diesel Hybrid



REDD+ (2) 1%

 Controlling slush and burn

F-gas (4) 2%

• Recovery & Destruction

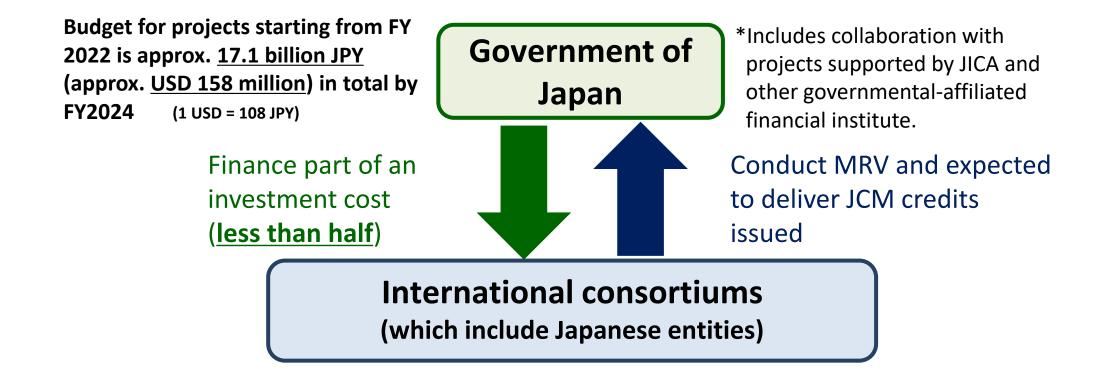
Renewable energy (120) 52%

- Solar(&Storage battery)
- Micro hydro
- Wind
- Biomass
- Geothermal



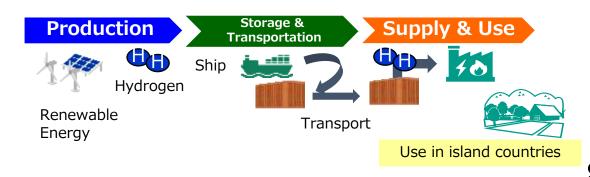
August,2022

FY2022 JCM Finance Scheme proposed by MOEJ



*including

- Financing Program to Demonstrate Decarbonization Technology for Realizing Co-Innovation
- Pilot project for comprehensive support throughout the whole hydrogen supply chain abroad



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MOEJ - Implementation of Article 6 following COP26

- At COP26, the Rulebook for the Article 6 (market mechanism) of the Paris Agreement was concluded, paving the way for utilizing market mechanisms to reduce global emissions.
- Leading Article 6 negotiations and being a frontrunner with the experience of the Joint Crediting Mechanism (JCM), Japan will take the following three actions to contribute to global decarbonization.

<3 Actions>



- 1. Expanding JCM partner countries, and strengthen project development and implementation in collaboration with international organizations;
 - Accelerate expansion of the JCM partner countries, mainly in the <u>Indo-Pacific region</u> and strengthen in <u>African region</u>
 - Strengthen cooperation with <u>the Asian Development Bank (ADB), the UN Industrial</u> <u>Development Organization (UNIDO), the World Bank, and others</u>
- 2. Scale up the JCM by mobilizing further private finance



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Regional Collaboration Centre – Bangkok Promoting Action Against Climate Change

- 3. Contribute to the global operationalization of market mechanisms.
 - Supporting capacity building for related officials and project operators with UNFCCC's Regional Collaboration Centre (RCC).

Thank you for your kind attention

