

Lessons learned from JCM project development activities in Asia and JCM potential in Indonesia

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- **Who we are?**
- **What we do for JCM project development?**
- **Lessons learned and potential in Indonesia**

JCM outreach & project development activities

1) Disseminating the JCM information:

Information platform “Carbon Market Express” to provide A to Z of the JCM

2) Identifying priority sector and relevant policies:

JCM information sheet & information report

3) Identifying JCM project seeds

On-site & online survey in JCM partner countries

4) Encouraging match-making:

Workshop & study tour

5) Applying to JCM financing programme:

Preparation of application document for JCM Model Project

JCM Methodology and PDD development in case of necessary

Recent JCM model projects supported by OECC

OECC has supported over 20 JCM pipeline projects in Asia.

Country	Project
Philippines	Biogas Power Generation & Fuel Conversion Project in Pineapple Canneries
Mongolia	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory
Myanmar	8.8MW Power Generation System by WHR for Cement Plant
Mongolia	Upscaling Renewable Energy Sector Project [JFJCM by ADB]
Mongolia	20MW Solar PV in Darkhan City
Mongolia	15MW Solar PV in New Airport Suburb
Indonesia	Absorption Chiller at Chemical Factory
Philippines	1.2MW Solar PV at Refrigerating Warehouse
Philippines	1.53MW Solar PV at Auto Parts Factories
Laos	Amorphous Transformers in Nationwide Power Grids
Vietnam	Amorphous Transformers in Southern and Central Power Grids II
Cambodia	Introduction of 0.8MW Solar Power Generation in International School

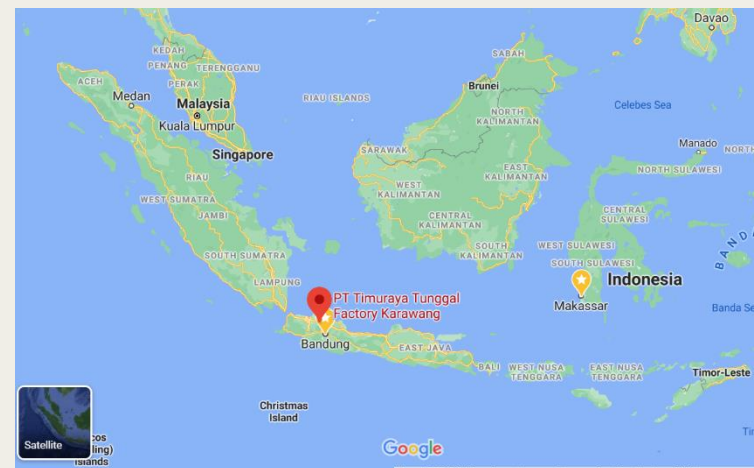
Case 1: Absorption Chiller at Chemical Factory



【Representation】 Tokyo Century Corporation
【Lessor】 Local Subsidiary of Tokyo Century
【Partner】 PT. Timuraya Tunggal.

A high efficiency absorption chiller was installed in the chemical factory. Utilizing exhaust steam emitted into the atmosphere, power consumption and GHG emissions of the chiller will subsequently be reduced.

(Photo from GEC)



Expected GHG Emission Reduction : 917 tCO₂/year



炭素市場エクスプレス

CARBON MARKETS EXPRESS



Case 2: Introduction of CNG-Diesel Hybrid Equipment to Public Bus in Semarang

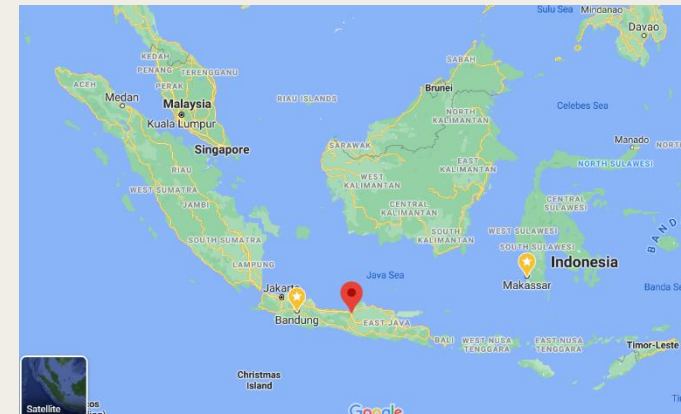


【Representation】 Hokusan Co., Ltd.

【Partner】 BLU UPTD Trans Semarang

✂to realize low carbon society under inter-city cooperation between Toyama City (Japan) and Semarang City (Indonesia).

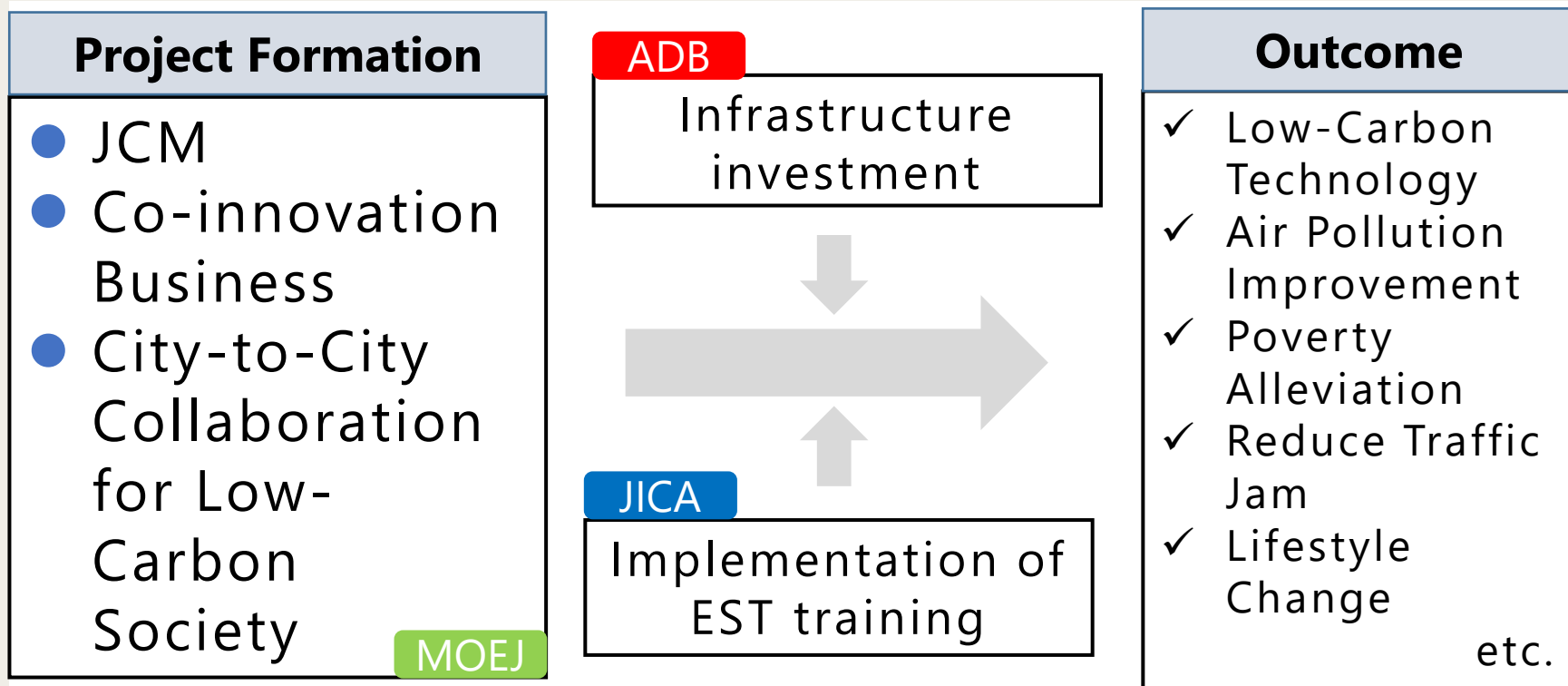
72 diesel buses owned by Trans Semarang are retrofitted from diesel engine to hybrid engine with CNG system available.



Expected GHG Emission Reduction : 2,667 tCO₂/year

JCM-EST(Environmentally Sustainable Transport)

MOEJ aims for EST in the Asian region, promotes high-level policy dialogue of the government etc. in collaboration with the United Nations Center for Regional Development (UNCRD) and organizing countries.



JCM and related projects in Transport sector

JCM model projects in Transport sector.

Country	Project	Project Type
Vietnam	Modal Shift from Truck to Cargo Ship with Freshness Preservation Reefer Container	JCM model project
Vietnam	Eco-Driving by Utilizing Digital Tachograph System	JCM model project
Indonesia	Introduction of CNG-Diesel Hybrid Equipment to Public Bus in Semarang	JCM model project
Cambodia	Project to realize low carbonization in transportation, green production fields and so on based on the action plan for the climate change strategy in Phnom Penh Capital City (Kitakyushu-Phnom Penh Cooperative Project)	City to City Collaboration Program
Lao PDR	Transportation Improvement through introduction of Efficient Buses and Provision of Good Services	JCM Feasibility Study

JCM potentials for RE & EE in Indonesia under COVID-19

Renewable Energy

Policy background: MINISTERIAL DECREE OF ENERGY AND MINERAL RESOURCES (MDEMR) 2020 No.4 (Renewable Energy, Power Plant Supply, Utilization.)

Solar	Small Scale Geothermal power	Mini Hydro	Biomass/Waste to Energy
Increasing demand not only for industrial sector but also in households	There are many suitable sites for geothermal (binary generation)	There are many suitable sites for hydropower.	The potential demand for waste power generation is numerous and not difficult for some area.

Incentives: BOOT was replaced with a BOO (The transfer of equipment to PLN is no longer required after the PPA's contractual term has expired).

Energy Efficiency (Commercial sector)

Policy background: MDEMR 2020 No.13 (PROVISION OF CHARGING INFRASTRUCTURE FOR BATTERY-BASED ELECTRIC MOTOR VEHICLES)

Interest in storage batteries (batteries for electric vehicles) as well as industrial equipment is high.

JCM Global Partnership

The JCM Global Partnership aims to form partnerships with various stakeholders (partner countries, international organizations, local governments, NGOs and private companies) and to share information in order to realize a decarbonized society.

The JCM Global Partnership will promote the following three key activities;

- (1) **JCM x Carbon Neutral Project:** Formation and Execution of project for Decarbonization
- (2) **JCM x Article 6:** JCM as a project for Article 6 of the Paris Agreement
- (3) **JCM x SDGs:** Contribution to SDGs





Thank you for your attention!

Find more about JCM Global Partnership on the website:

JCM Global Partnership: <https://www.carbon-markets.go.jp/eng/jcmgp/>



Find more about JCM on the website:

Carbon Market Express: <https://www.carbon-markets.go.jp/eng/>



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