



Tips and Findings Thorough Experiences with JCM Project Development

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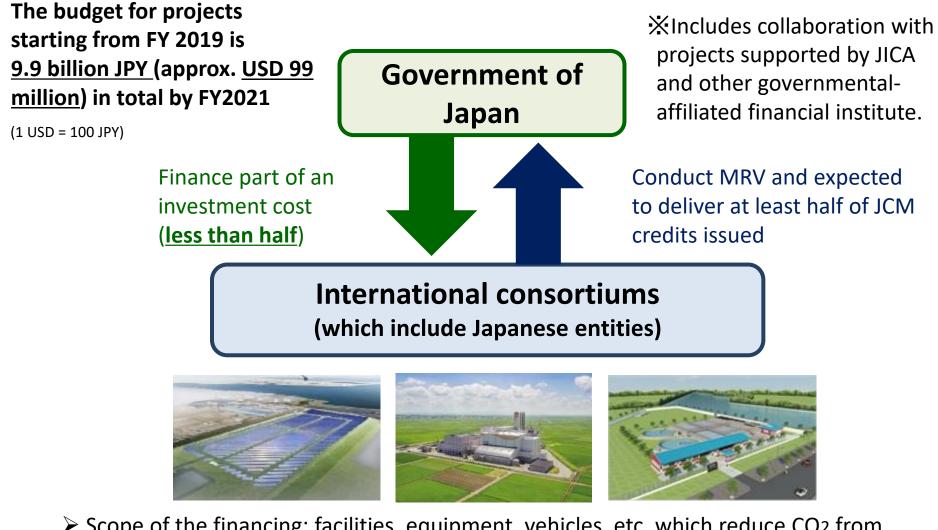


Role of OECC in JCM Model Project Development

Examples of the JCM Model Projects

Tips of the project development and benefits from JCM

JCM Model Projects by the MOEJ



- Scope of the financing: facilities, equipment, vehicles, etc. which reduce CO₂ from fossil fuel combustion as well as construction cost for installing those facilities, etc.
- Eligible Projects : starting installation after the adoption of the financing and finishing installation within three years.

Role of OECC in JCM Model Project Development

OECC works for project findings and development in 9 Asian Countries in FY2019 . (Mongolia, Bangladesh, Viet Nam, Lao PDR, Indonesia, Cambodia, Myanmar, Thailand and the Philippines).



Activity flow of the JCM model project development and the support from OECC

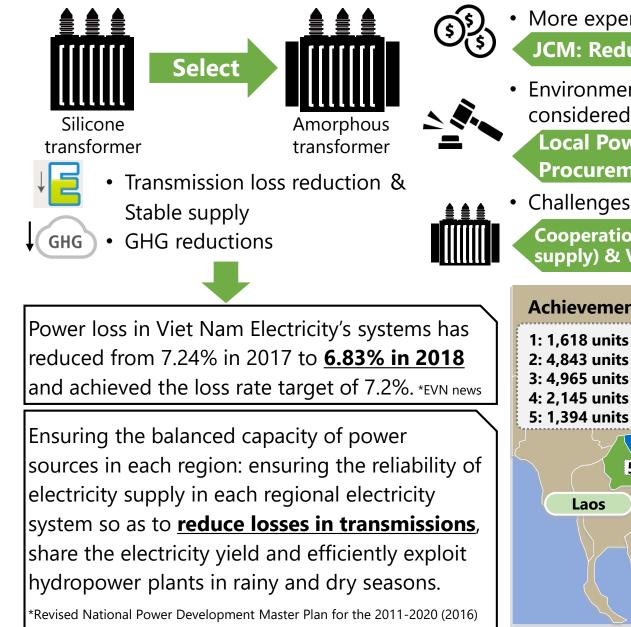


JCM model projects consulted by OECC

OECC has been successfully supported the project development for 20 projects

Year	Partner country	Technology introduced and project boundary	GHG reduction (tCO2/year)
2019	Philippines	Biogas Power Generation and Fuel Conversion Project in Pineapple Canneries	52,156
2019	Mongolia	Fuel Conversion by Introduction of LPG Boilers to Beverage Factory	5,781
2018	Mongolia	21MW Solar PV in Bayanchandmani	27,008
2017	Mongolia	20MW Solar PV in Darkhan City	22,927
2017	Mongolia	15MW Solar PV in New Airport Suburb	18,438
2017	<u>Indonesia</u>	Absorption Chiller at Chemical Factory	1,084
2017	<u>The Philippines</u>	1.2MW Solar PV at Refrigerating Warehouse	838
2017	<u>The Philippines</u>	1.53MW Solar PV at Auto Parts Factories	1,124
2017	Laos	Amorphous Transformers in Nationwide Power Grids	2,099
2017	Viet Nam	Amorphous Transformers in Southern and Central Power Grids II (phase 4)	1,469
2016	<u>Thailand</u>	1.5MW Solar PV and EMS at Paint Factory	1,344
2016	<u>Cambodia</u>	800kW Solar PV project at International School	772
2016	<u>Mongolia</u>	<u>8.3MW Solar PV at Farm in Ulaanbaatar Suburb</u>	10,580
2016	<u>Viet Nam</u>	<u>Amorphous Transformers in Northern, Central and Southern Power Grids (phase 3)</u>	2,098
2015	<u>Mongolia</u>	10MW Solar PV in Darkhan City	14,746
2015	<u>Mongolia</u>	<u>2.1MW Solar PV at Farm in Ulaanbaatar Suburb</u>	2,707
2015	<u>Bangladesh</u>	High Efficiency Loom at Weaving Factory	1,518
2015	<u>Bangladesh</u>	<u>340kW PV-diesel Hybrid System at Fastening Manufacturing Plant</u>	265
2015	<u>Viet Nam</u>	<u>Amorphous Transformers in Southern and Central Power Grids (phase 2)</u>	3,564
2014	<u>Viet Nam</u>	<u>Amorphous Transformers in Southern Power Grids (phase 1</u>)	610

Case1: Transferring & replicating low-carbon technologies



- More expensive than conventional product JCM: Reducing initial investment cost
- Environmental performance is not sufficiently considered in procurement process Local Power Authorities : Revising
 - Procurement process

3

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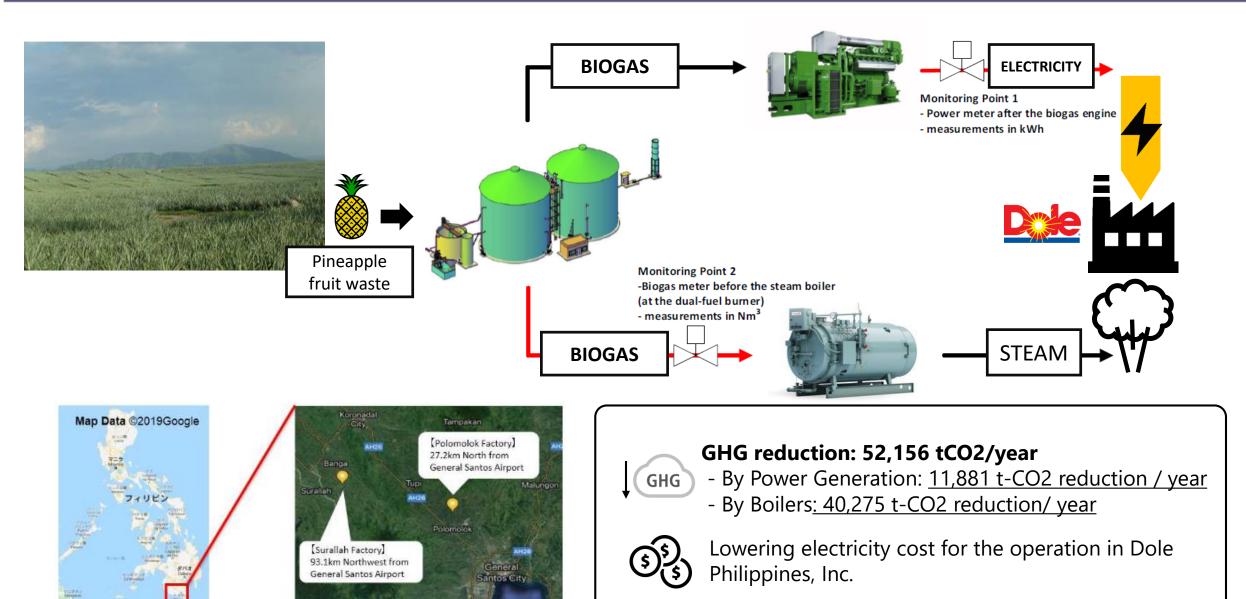
Laos

Challenges for introducing new technology

Cooperation between Japan (amorphous supply) & Viet Nam (Transformer production)

JCM **Achievement (Since 2014)** South region Whole Viet Nam Vietnam Laos PDR 2 14 Introduction by private finance

Case2: Promoting large-scale GHG emissions reduction by Biogas Generation



Tips and potential of the project development with huge amount of GHG emissions reduction with an example in the agriculture sector

Finding replicable technologies

Seeking a potential in variety of sectors / technologies

Example Big Potential in the Agriculture Sector

- Huge amount of waste terns into energy source
- GHG emissions reduction by biomass power replacing fossil fuel origin-electricity or diesel power

A large scale of GHG emissions reduction by methane avoidance

Conditions

- Must include GHG emissions reduction from energy sources
- Secure a certain amount of biomass supply continuously
- Must be identify the end user to monitor the GHG emissions reduction

Benefits from the JCM

✓ Contribute to the achievement of NDC GHG

Promote sustainable business/project operation

- Job creation
- Know-how of project management
- Better technologies



NDC

Reduction Target





Thank you for your attention!

Find more about JCM on the website: Carbon Market Express: <u>https://www.carbon-markets.go.jp/eng/</u>



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