

Current Development of JCM Scheme in Indonesia



Coordinating Ministry
for Economic Affairs
Republic of Indonesia





Presentation Outline



- The JCM inception
- JCM Stakeholder
- JCM Financing
- Project Status
- Status of feasibility studies
- JCM Infrastructures
- City-to-City cooperation under JCM scheme
- Sustainable development criteria
- Communication and M&E activities





JCM development in Indonesia



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2010

JCM informal meetings
between Government of
Indonesia and Japan

2011

JCM formal meetings with
National Climate Change
Council and related
ministries

2012

Establishment of the
Coordination Team for
Inter-State Carbon Trade
Negotiation (TKPPKA)

2015

Implementation of the first
JCM REDD+ project in
Indonesia

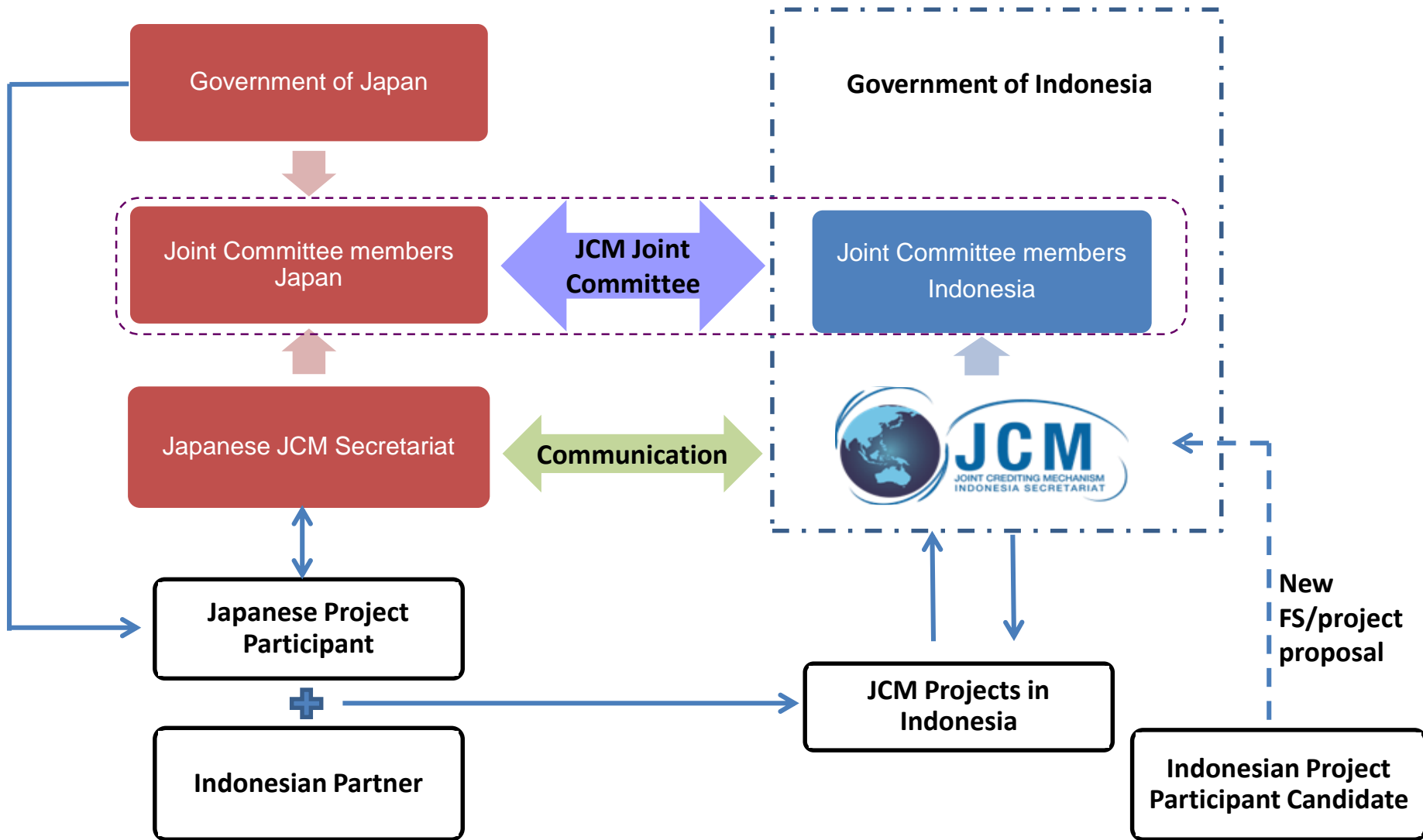
2014

- Indonesia JCM Secretariat established under the Coordinating Ministry for Economic Affairs
- First JCM project in Indonesia and in the world is registered

2013

Bilateral Agreement on JCM
cooperation between
Indonesia and Japan is
signed on the 26th August
2013

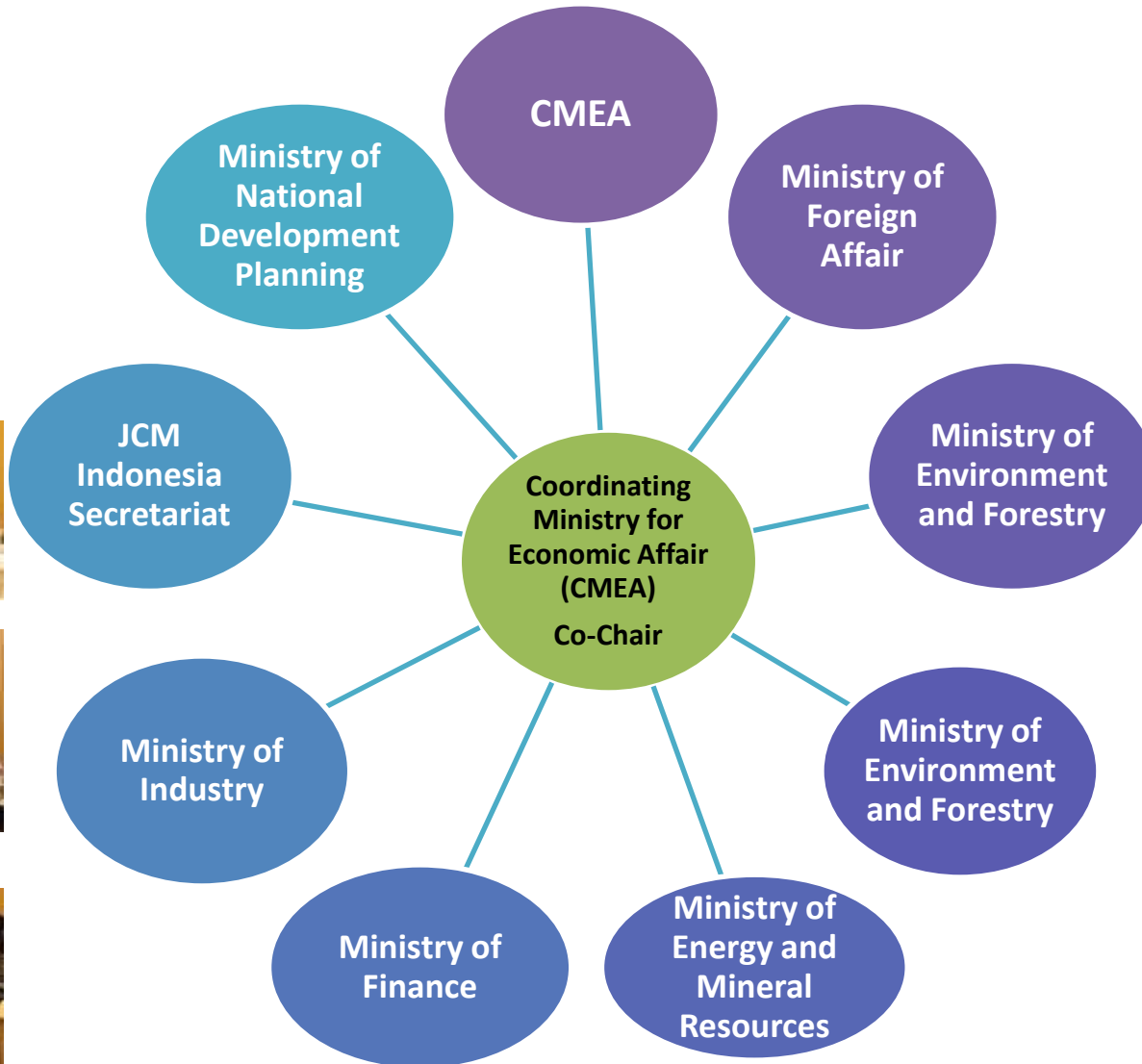
The JCM Stakeholder





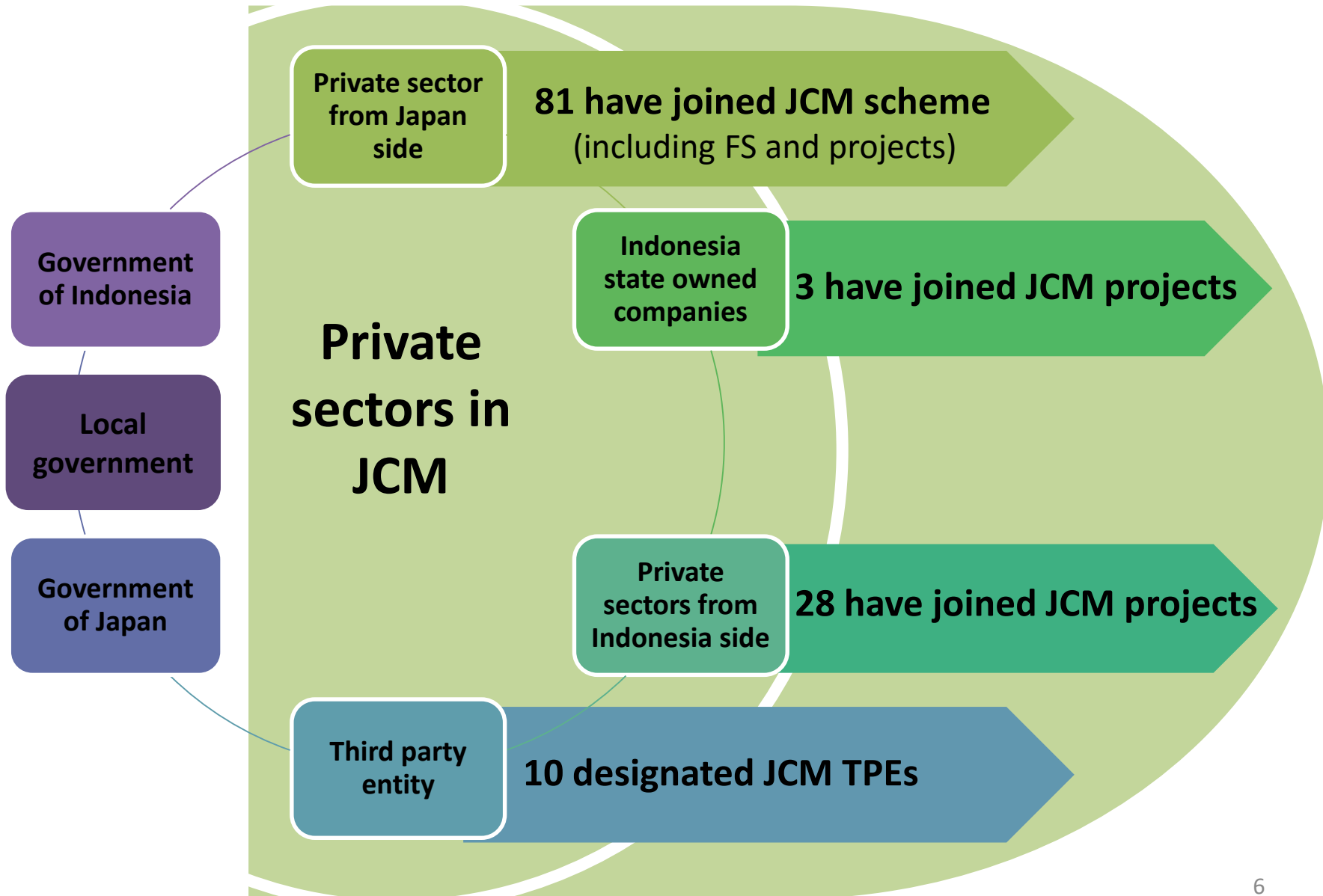
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Structure of the Indonesia Joint Committee



Joint Committee :

- Co-Chair by the Assistant Deputy Minister for Multilateral Economic Cooperation and Financing of CMEA
- Consists of 10 Director-level members from 7 Ministries and JCM Secretariat.





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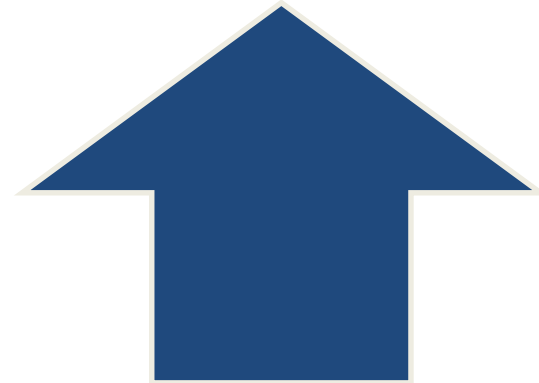
JCM Financing Scheme in Indonesia



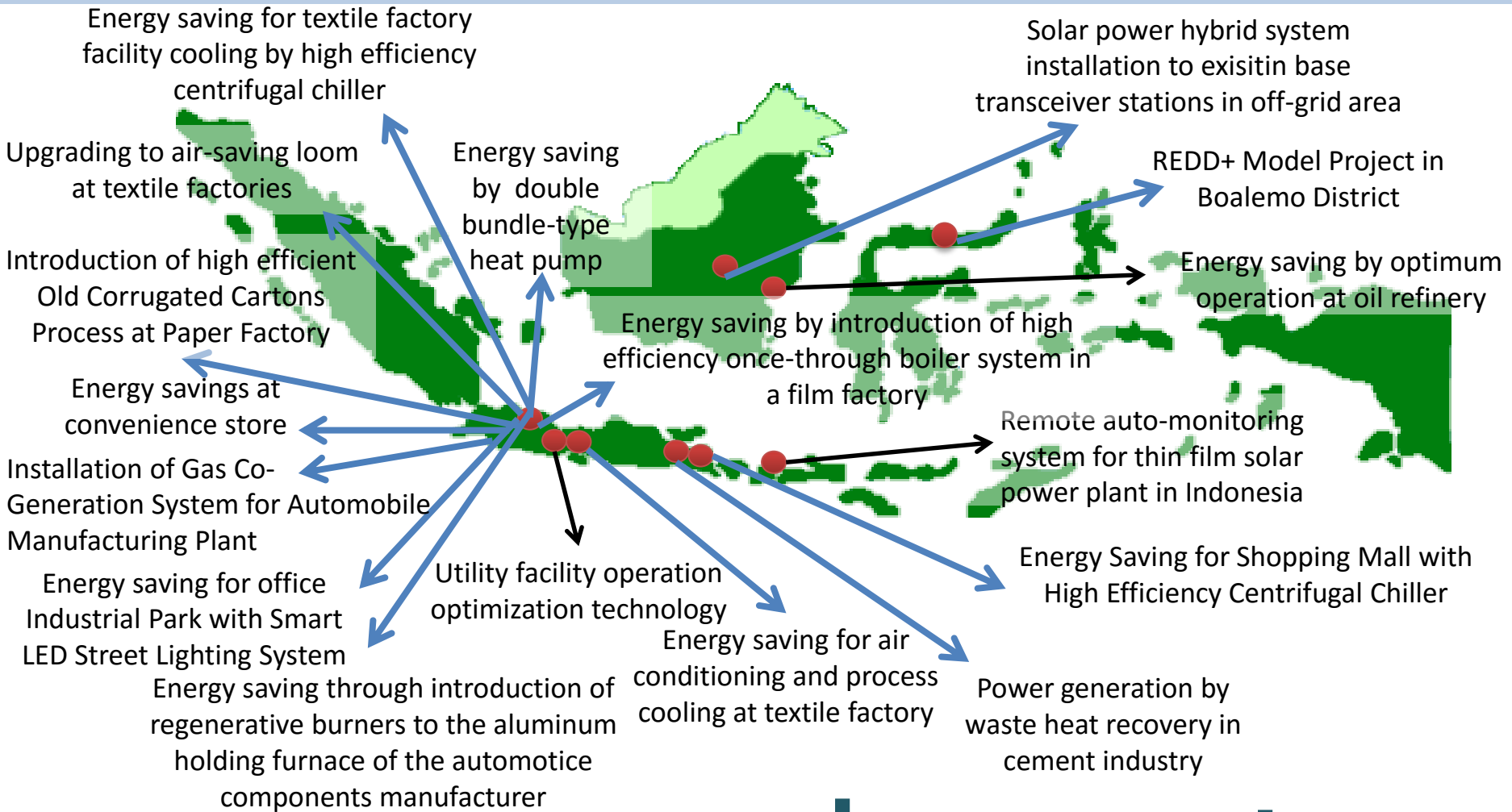
Since 2010 it has leveraged around more than US\$ **107 million** investment in the low-carbon development



Since 2010, JCM has mobilised grant from the Japanese government around US\$ **41 million** for low-carbon development in Indonesia



Projects in the Pipeline



17
projects

= 14 Energy efficiency

2 Renewable energy

1 REDD+



Energy Saving for Air-Conditioning and Process Cooling by Introducing High-efficiency Centrifugal Chiller

- Ebara Equipment & Systems and PT Primatexco Indonesia
- Estimated total emissions reduction of **799 tCO₂ eq.** by 2020



Project of Introducing High Efficiency Refrigerator to a Food Industry Cold Storage in Indonesia

- Mayekawa MFG Co., Ltd and PT Adib Global Food Supplies
- Expected total emission reduction of 845 tCO₂ by 2020



Project of Introducing High Efficiency Refrigerator to a Frozen Food Processing Plant in Indonesia

- Mayekawa MFG Co., Ltd and PT Adib Global Food Supplies
- Expected total emission reduction of 151 tCO₂ by 2020

FS in Indonesia (2010-2015)



Since JCM establishment in 2013, it has developed several guidelines, procedure, rules, registry system and methodologies

Guideline:

1. Project Design Document
2. Proposed Methodology
3. Third Party Entity
4. Validation and Verification
5. Sustainable Development Implementation Plan and Report

Procedure:

1. Project Cycle Procedure

Rules:

1. Rules of Implementation
2. Rules of Procedure

Registry system:

Develop with the collaboration with IGES and it is expected to connect with the National Registry

The role of Indonesia JCM Secretariat in the proposed methodologies review:

- Experts review
- Using methodology review form
- Discussion meetings between related ministries
- Prepare website for public comment

10 Approved Methodologies

1. Power Generation by Waste Heat Recovery in Cement Industry
2. Energy Saving by High-Efficiency Centrifugal Chiller
3. Installation of Energy-Efficient Refrigerators Natural Refrigerants at Food Industry Cold Storage and Frozen Food Processing Plant
4. Installation of Air-Conditioning for Grocery Store
5. Installation of LED lighting for grocery store
6. GHG emission reductions through optimization of refinery plant
7. GHG emission reductions through optimization of boiler operation in Indonesia
8. Installation of a separate type fridge-freezer showcase by using natural refrigerant for grocery store to reduce air-conditioning load inside the store
9. Replacement of conventional burners with regenerative burners for aluminum holding furnaces
10. Introducing double-bundle modular electric heat pumps to a new building

Current development of City-to-City cooperation

1. Energy management in buildings

Surabaya &
Kitakyushu

2. Waste management



Sister
city



Batam &
Yokohama



Bandung &
Kawasaki



1. Energy efficiency in airport
2. Energy efficiency in WWTP
3. Biomass energy

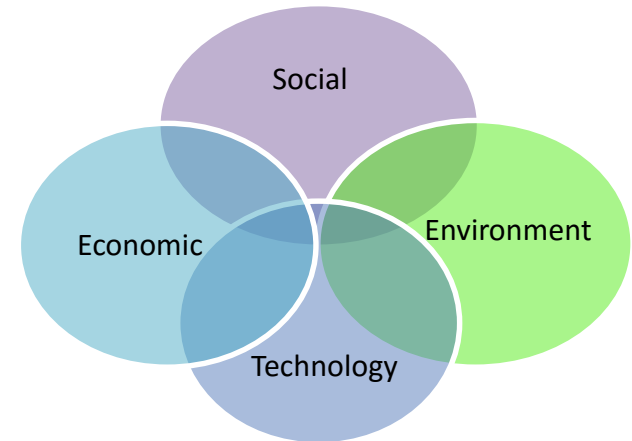
1. Energy management in buildings
2. Waste Management
3. Street lamps

SD Criteria – Proposal from the Government of Indonesia

Why we push SD criteria to be part of JCM?

1. One of the JCM purpose is to contribute to sustainable development
2. Indicator is needed to evaluate achievement in JCM.
3. Ensure every JCM project will deliver co-benefit for Indonesia.
4. To fulfill global standards for appropriate climate change mitigation action under the UNFCCC
5. Enforcement of sustainable development criteria suitable for Indonesian conditions

- ❖ SD implementation plan (SDIP) will be submitted during request of registration
- ❖ SDIP is assessed during request of issuance



Communication and M&E activities

1



Information sharing

2



Meetings

3



Site visits

Way of communication between project participants, Indonesia government, and Japan government

Ensure PP from both sides understand JCM scheme:

- PP from Japan probably understands JCM scheme, but not host country's regulation
- PP from Indonesia may not know the collaboration they are going through with their Japanese partner(s) is under JCM scheme.



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Communication and capacity building



Indonesia JCM Secretariat

Established by the Coordinating Ministry of Economic Affairs of the Republic of Indonesia in February 2014 to support the JCM Joint Commission, to be an center of JCM information and communication, and to collaborate with all stakeholders to ensure smooth implementation for the achievement of JCM targets.

Registered Project

- Energy Saving for Air-Conditioning and Process Cooling by High-Efficiency High-Efficiency Centrifugal Chiller (SABARA CHILLER)
- PT Perkebunan Indonesia, Ekstra Refrigeration Equipment (EPCO Co., Ltd., Nippon Kasei Co., Ltd. Project location: Perkebunan Indella Factory in Soling, Central Java)
- CHillers consume significant amount of energy compared with other machines in the factory. Two existing chillers (1300 kVA refrigerant chiller and 600 kVA absorption chiller) with capacity less than 1000 kVA used with the actual capacity of 700 kVA and 200 kVA respectively were replaced with one high-efficiency centrifugal chiller of 2000 kVA.
- Estimated total emissions reduction is 799 tCO2e by 2020.
- Project website is available on www.jcmindonesia.com

Potential Projects

- Research Automation System for Thin-Film Solar Power Plant in Indonesia
- Plant Waste Biomass Power Generation Project
- Power Generation by Waste Heat Recovery in Cement Industry
- Solar Power Hybrid System Installation to existing Base Transformer Station in OPEC field camp
- Energy Saving for Textile Factory Facility Cooling by High-Efficiency Centrifugal Chiller
- Energy Saving Through Introduction of Regenerative Burner for Air-Preheating Heating Furnace of the Iron and Steel Industry in Indonesia
- Energy Efficient Refrigerants to Cold Chain Industry
- Energy Saving at Cementware Kiln
- Energy Saving for Air-Conditioning and Process Cooling at Textile Factory
- Energy Saving by Waste-to-Energy Plant at coal
- Energy Saving by Steam Turbine Operation at Oil Refinery
- Energy Saving by Operation Optimization Technology "SMART Control"

Feasibility study or project proposals may be submitted to the Secretariat. Use of Project Idea Note format is recommended.

For more info visit <http://www.jcmindonesia.com>

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Brochure



Business Forum

Progress of The Joint Crediting Mechanism (JCM) in Indonesia

April 2015

Booklet



Participating in Indonesia Pavilion COP 20 Peru, Lima



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Merci beaucoup! Terima kasih!

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