



Coordinating Ministry  
for Economic Affairs  
Republic of Indonesia

# **The Indonesia JCM Scheme Progress Development**

**Dicky Edwin Hindarto**  
**Head of Indonesia JCM Secretariat**  
**Indonesia Joint Crediting Mechanism Secretariat**

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# Indonesia INDC and Paris Agreement article 6

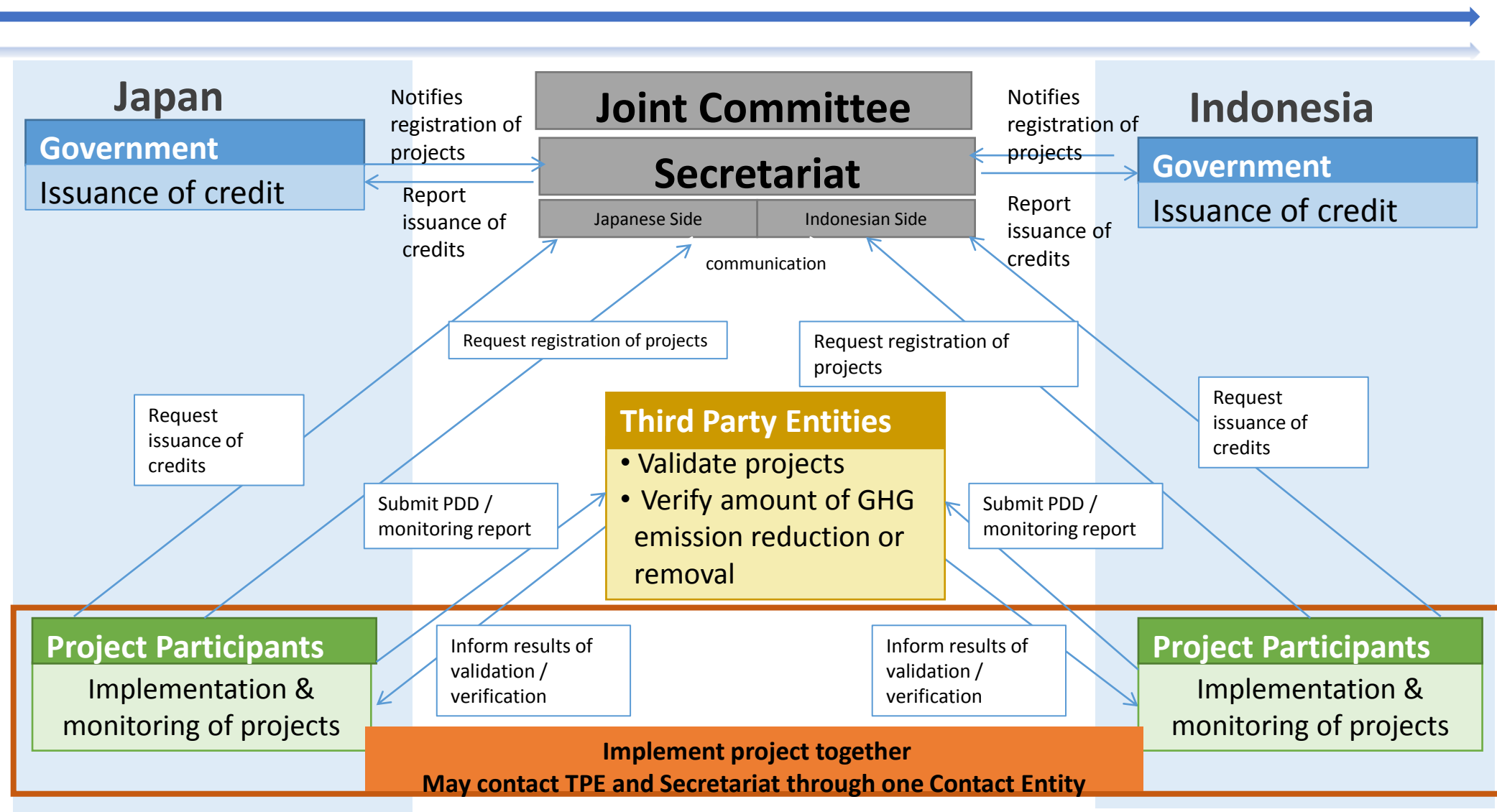
## PARIS AGREEMENT (article 6 para 2-3)

2. Parties shall, where engaging on a voluntary basis in cooperative approaches that involve **the use of internationally transferred mitigation outcomes towards nationally determined contributions, promote sustainable development and ensure environmental integrity and transparency, including in governance, and shall apply robust accounting to ensure, inter alia, the avoidance of double counting**, consistent with guidance adopted by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement.
3. The use of internationally transferred mitigation outcomes to achieve nationally determined contributions under this Agreement **shall be voluntary and authorized by participating Parties.**

.... Indonesia's additional 12% of intended contribution by 2030 is subject to provision in the global agreement including through bilateral cooperation, covering technology/ deployment and transfer, capacity building, payment for performance mechanisms, technical cooperation and access to financial resources.

.... Indonesia will meet its unconditional commitments regardless of the existence of international market mechanisms. **Indonesia welcomes bilateral, regional and international market mechanisms** that **facilitate and expedite technology development and transfer, payment for performance, technical cooperation, and access to financial resources** to support Indonesia's climate mitigation and adaptation efforts toward a climate resilient future.

# Joint Crediting Mechanism Scheme in Indonesia



# Indonesia JCM organizations

- 1. Joint Committee**, Indonesia Joint Committee members are 10 persons, coming from 7 different ministries and JCM Secretariat.
- 2. Indonesia JCM Secretariat**, the secretariat is located at Coordinating Ministry of Economic Affairs (CMEA) Building 2th floor, Jl. Medan Merdeka Barat 7, Jakarta. Secretariat functions are supporting all of the Joint Committee tasks, including receiving PIN (JCM projects application), reviewing methodologies and sustainable development criteria implementation, and facilitating project participants to develop activities under the JCM. **The JCM operationalization also supported by JICA under the cooperation between CMEA and JICA (that will be lasted until December 2017).**
- 3. Third Party Entities (TPE)** are independent bodies that accredited with ISO 14065 or registered CDM DOE. JCM projects must be validated and verified by the TPEs. Currently we have 10 registered TPEs in our list, one of it is Indonesian entity.

# MRV in the JCM steps

Can be conducted by the same TPE  
Can be conducted simultaneously

Project Participant / Each Government  
Joint Committee

Joint Committee

Project Participant

Third Party Entities

Joint Committee

Project Participant

Third Party Entities

Joint Committee decides the amount  
Each Government issues the credit

Submission of  
Proposed  
Methodology

Approval of Proposed  
Methodology

Development  
of PDD \*

Validation

Registration

Monitoring

Verification

Issuance  
of credits

**M**easurable

**R**eportable

**V**erifiable

# JCM feasibility studies (including today's presentation)



The JCM FS scheme provides financing funded by the Ministry of Environment Japan (MoEJ) and Ministry of Economy, Trade and Industry Japan (METI)

# JCM implemented project list (1)

No	Project	Entities	Annual Emission Reduction (tCO <sub>2</sub> )
1	<b><i>Remote Auto-Monitoring System for Thin-Film Solar Power Plant in Indonesia</i></b>	Sharp & PLN	1,433
2	<b><i>Energy Saving by Optimum Operation at Oil Refinery</i></b>	Yokogawa & Pertamina	3,400
3	<b><i>Utility Facility Operation Optimization Technology</i></b>	Azbil & Pertamina	58,000
4	<b><i>Power generation by waste heat recovery in cement industry</i></b>	JFE Engineering Corporation & PT Semen Indonesia Tbk	122,000
5	<b><i>Energy Savings at Convenience Stores</i></b>	Lawson & PT Midi Utama Indonesia, Tbk	33/store
6	<b><i>Energy saving through introduction of regenerative burners to the aluminum holding furnace of the automotive components manufacturer</i></b>	Toyotsu Machinery Corporation, PT Yamaha Motor Parts Manufacturing Indonesia, Hokuriku Techno Co. Ltd., PT Matahari Wasiso Utama	856
7	<b><i>Solar power hybrid System installation to existing base transceiver stations in off-grid area</i></b>	ITOCHU Corporation & PT Telekomunikasi Selular	2,786

# JCM implemented project list (2)

No	Project	Entities	Annual Emission Reduction (tCO2)
8	<b><i>Energy saving for textile factory facility cooling by high efficiency centrifugal chiller</i></b>	Ebara Refrigeration Equipment & System Co., PT Nikawa Textile Industry, PT Ebara Indonesia	118
9	<b><i>Energy saving by double bundle-type heat pump</i></b>	Toyota Tsusho Corporation & PT TTL Indonesia	170
10	<b><i>Introduction of High efficient Old Corrugated Cartons Process at Paper Factory</i></b>	Kanematsu Corporation & PT Fajar Surya Wisesa Tbk	14,884
11	<b><i>Reducing GHG emission at textile factories by upgrading to air-saving loom</i></b>	Toray Industries, Inc, PT Indonesia Synthetic Textile Milles (ISTEM) / PT Easterntex / PT Century Textile Industry Tbk (CENTEX) / PT Toray Industries Indonesia (TIN)	566
12	<b><i>Energy saving for air-conditioning and process cooling at textile factory</i></b>	Ebara Refrigeration Equipment & Systems & PT Primatexco Indonesia	117
13	<b><i>Energy Saving for Shopping Mall with High Efficiency Centrifugal Chiller</i></b>	NTT Facilities, INC & PT. Pakuwon Jati Tbk	925
14	<b><i>Energy Saving for Industrial Park with Smart LED Street Lighting System</i></b>	NTT Facilities, INC dan PT. Maligi Permata Industri Estate, PT. Harapan Anang Bakri & Sons, PT. Karawang Tatabina Industrial Estate	900



# JCM implemented project list (3)

No1 2	Project	Entities	Annual Emission Reduction (tCO2)
15	<i>Energy saving by introduction of high efficiency once-through boiler system in a film factory</i>	Mitsubishi Plastics, INC & PT. MC Pet Film Indonesia	428,5
16	<i>REDD+ Model Project in Boalemo District</i>	Kanematsu Corporation & PT. Gobel Group DKM)	100,000
17	<i>Installation of Gas Co-Generation System for Automobile Manufacturing Plant</i>	Toyota Tsusho Corporation & PT Toyota Motor Manufacturing Indonesia	20,439
18	<i>Jakabaring Mega Solar Power Plant Project</i>	Sharp Corporation & Perusahaan Daerah Pertambangan dan Energi Sumatera Selatan	1,265
19	<i>Introduction of high efficiency once-through boiler and RO pure water system in golf ball factory</i>	Sumitomo Rubber Industries, Ltd, & PT Sumi Rubber Indonesia	380
20	<i>Energy saving for air-conditioning and process cooling by Introducing High-efficiency Centrifugal Chiller</i>	Ebara Refrigeration Equipment & Systems, Nippon Koei, dan PT Primatexco Indonesia	116
21	<i>Project of Introducing High Efficiency Refrigerators to a Food Industry Cold Storage in Indonesia</i>	Mayekawa Manufacturing Co., Ltd, PT Adib Global Food Supplies, PT Mayekawa Indonesia	120
22	<i>Project of Introducing High Efficiency Refrigerator to a Frozen Food Processing Plant in Indonesia</i>	Mayekawa Manufacturing Co., Ltd, PT Adib Global Food Supplies, PT Mayekawa Indonesia	21
		<b>Total Annual Emission Reduction</b>	<b>329,320.5</b>

Registered projects

# JCM Indonesia infrastructures development

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

Rules: 1. Rules of Implementation  
2. Rules of Procedure for JC

Procedure: Project Cycle Procedure

## Methodologies:

10 methodologies of energy efficiencies and renewable energy have been developed

## Registry system:

We have developed the first climate change mitigation registry system in Indonesia, and it is expected to connect with the National Registry

ISO 14065  
based

# JCM Methodologies in Indonesia

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

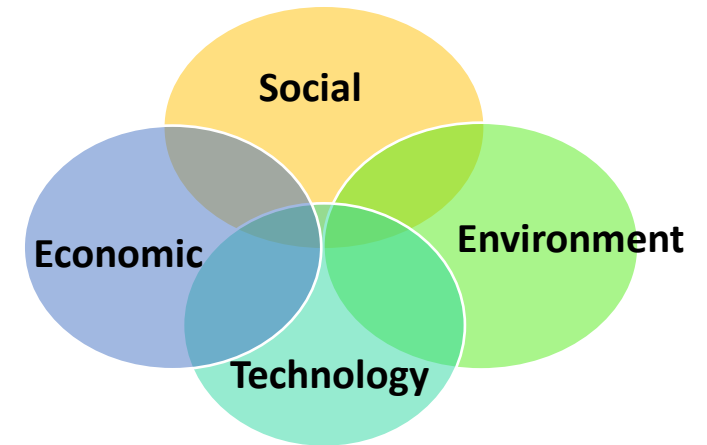
- Secretariat team conduct completeness check and review (in conjunction with experts)
- Using methodology review form
- Discussion meetings between related ministries
- Prepare website for public comment

## 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

# Sustainable Development in JCM projects

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



- ❖ **Sustainable Development Implementation Plan (SDIP) must be submitted during request of registration**
- ❖ **Sustainable Development Implementation Report (SDIR) is assessed during request of issuance**

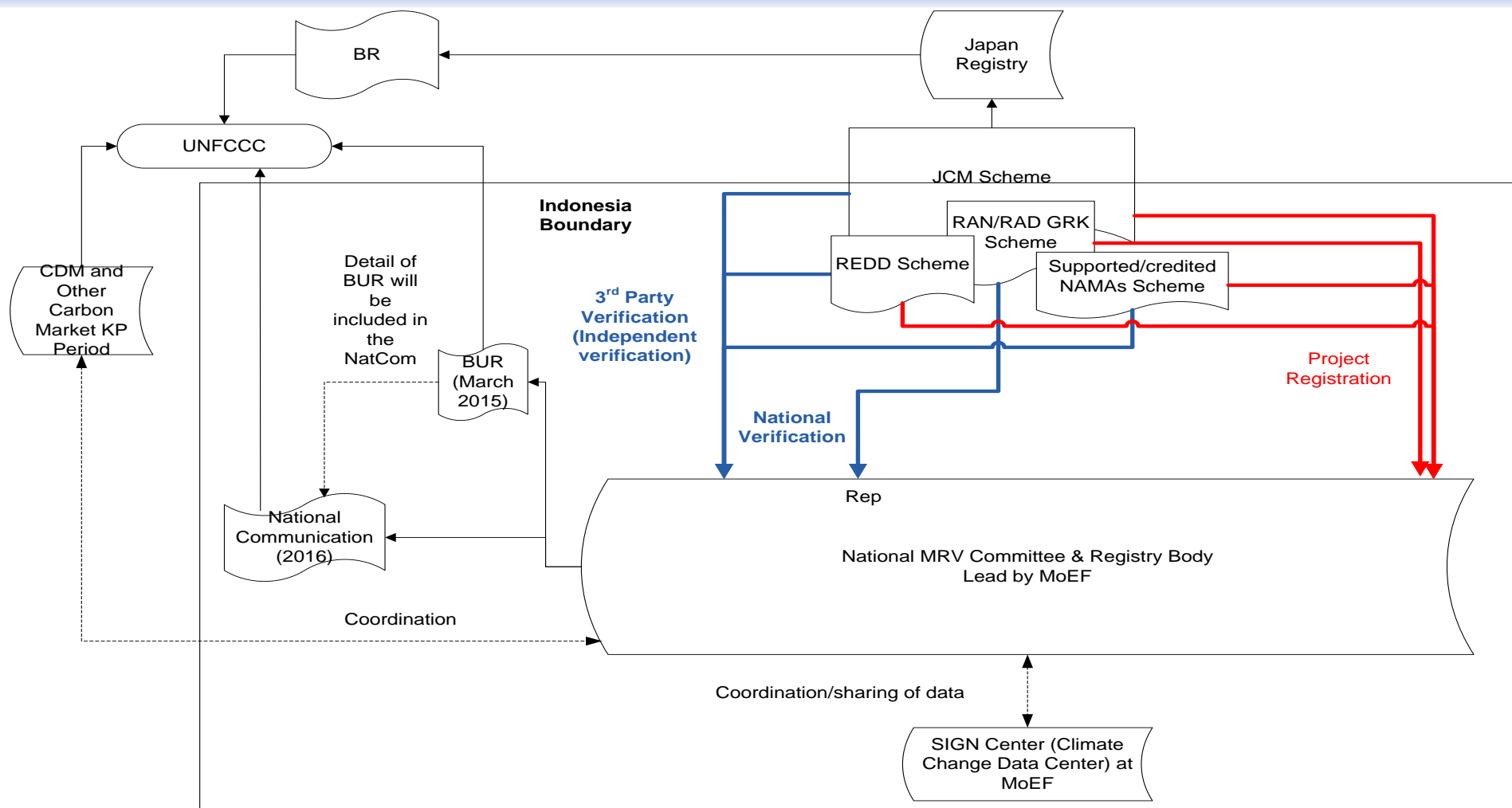
# And the latest development is our JCM registry system

Components of the Registry			
	Operation	Remarks	Sheets Link
Master Operation	Register Project		Register Project
	Open Account	One account for one entity	Open Account
	Edit Project Info		Edit Project
	Edit Account Info	Editing credits info is not allowed	Edit Account
Credits Related Operation	Issuance of Credits		Issuance
	Transfer of Credits		Transfer
	Retirement of Credits		Retirement
	Cancellation of Credits		Cancellation
	Balance Inquiry		Balance
	Database	Remarks	Sheets Link
Master	Project Info Master		Project Master
	Credit Issuance Master		Credit Master
	Account Master		Account Master
	Histry of Operation		History
Account	Holding Accounts	For Indonesian gov and entities	Account Number    Move To
	Retirement Account		Retirement Account
	Cancellation Account		Cancellation Account

**The JCM registry system is the first GHG registry developed in Indonesia!**

- The registry system in Indonesia is developed and maintained to ensure the accurate accounting of the issuance, holding, transfer, acquisition, cancellation and retirement of JCM credits.
- Three (3) basic transactions in JCM registry: transfer, cancellation, and retirement.
- Components in the Indonesia JCM registry:
  - “Master Operation sheet” to register JCM project and new account in the system and to modify the information which already in the registry system
  - “Credit Related Operation sheet” to manage the JCM credit in the registry system
  - “Master sheets” act as a database that store all operation and input in the system.
  - “Account sheets” is to manage the credit amount of each account.

# Possible linkages between emission reduction schemes in Indonesia from the JICA-CMEA study





# Communication and capacity building



Brochure



Business Forum

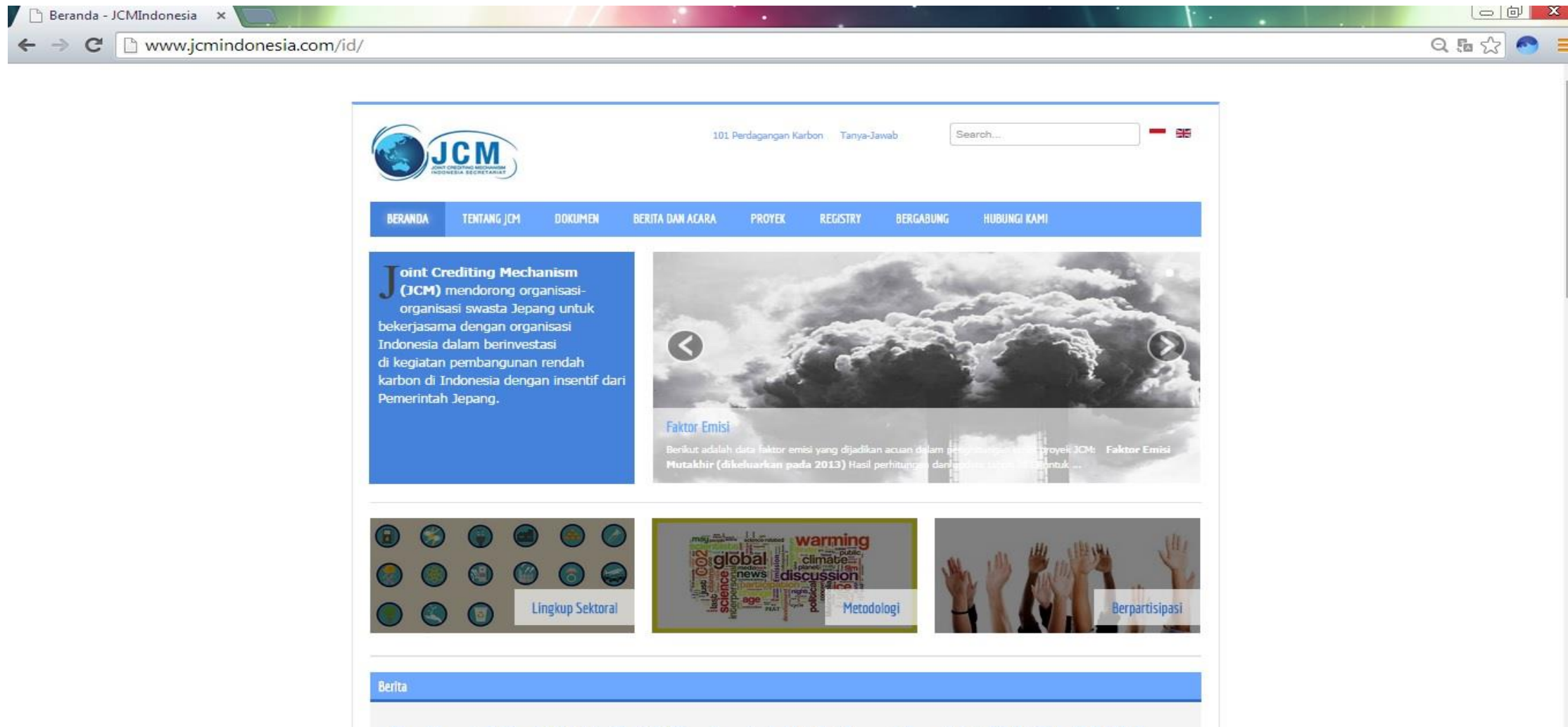


Booklet



Indonesia JCM dissemination in COP 20 Lima and COP 21 Paris

# And visit our website at [jcm.ekon.go.id](http://jcm.ekon.go.id)





**Thank you!**  
**Terima kasih!**

**Indonesia JCM Secretariat**  
**Coordinating Ministry for Economic Affairs Building 2nd floor,**  
**Jl. Medan Merdeka Barat 7, Jakarta 10110**  
**Website: [jcm.ekon.go.id](http://jcm.ekon.go.id)**  
**Email: [info@jcmindonesia.com](mailto:info@jcmindonesia.com)**