Demonstration of the JCM Registry System in Indonesia

Indonesia JCM Secretariat

Coordinating Ministry
for Economic Affairs
Republic of Indonesia

JCM
JOINT CREDITING MECHANISM
INDONESIA SECRETARIAT

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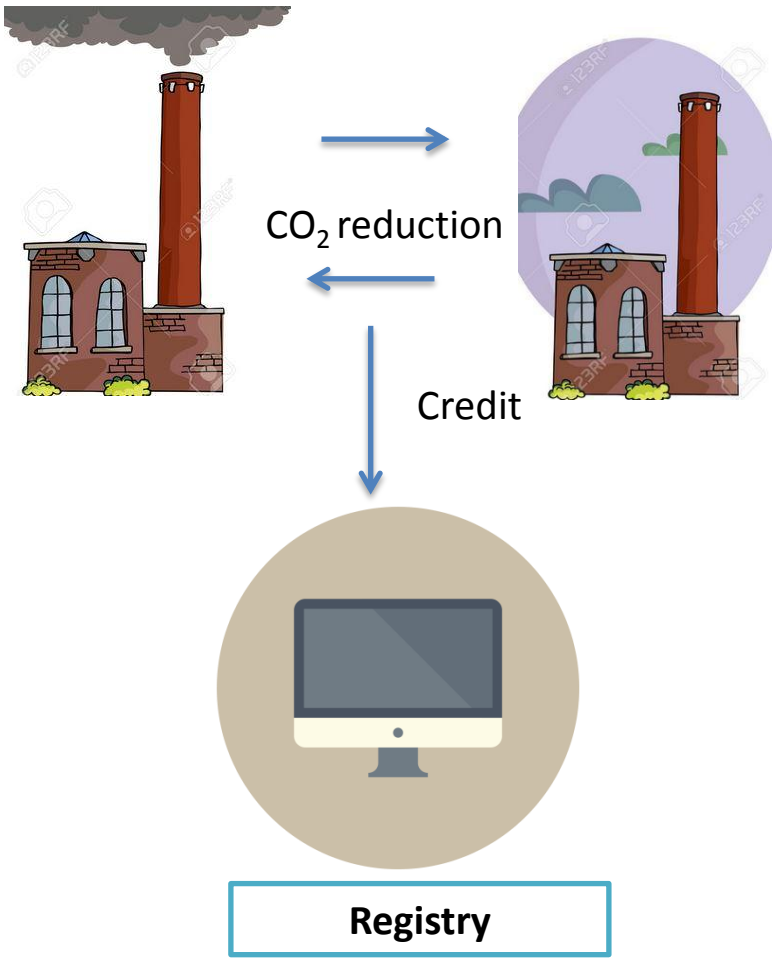
What is registry?

- A system to manage all the data, with primary task is to operate a database for collecting, verifying and tracking data from the project participants. This is similar to the way that bank records balances and movements in money using accounts allocated to individuals or other entities.
- Carbon market registry is a system that can track the location of emission reduction units at all times.
- Every reliable climate mitigation scheme has its own registry to register all of their activities and avoid double counting, double claiming, and double financing.



Emission reduction registry

- National implementation measures.
- Accounts of companies or individual entity holding those allowances.
- Transfer of carbon units (transactions) performed by the account holders.
- Annual verified CO_2 emissions from activities.

JCM registry system

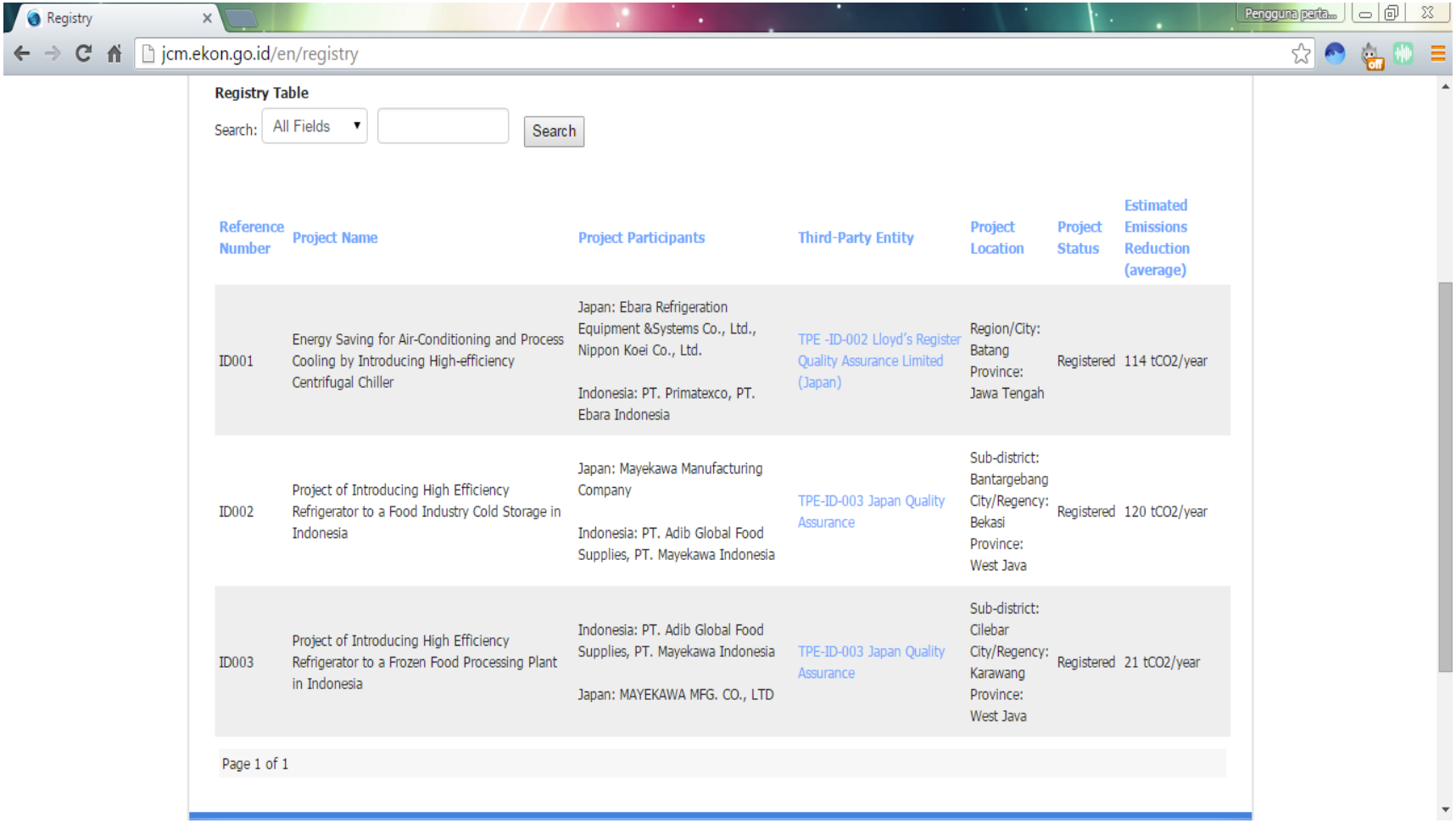
- Each JCM partner country has a flexibility to develop their own registry system. However, the system must still follow **"Common Specifications of the JCM Registry"**
- This document also states the definition of the below terminologies:
  - Issuance
  - Transfer
  - Acquisition
  - Cancellation
  - Retirement
- According to "Common Specification" document, each registry should :
  - avoid double counting; and
  - has the following accounts:

A government holding account	Entity(ies) holding account
Cancellation account(s)	A retirement Account

Information for public

Common Specifications of the JCM Registry Para 19

Each side makes non-confidential information publicly available and provides a publicly accessible user interface through the Internet that allows interested persons to query and view it.



Reference Number	Project Name	Project Participants	Third-Party Entity	Project Location	Project Status	Estimated Emissions Reduction (average)
ID001	Energy Saving for Air-Conditioning and Process Cooling by Introducing High-efficiency Centrifugal Chiller	Japan: Ebara Refrigeration Equipment &Systems Co., Ltd., Nippon Koei Co., Ltd. Indonesia: PT. Primatexco, PT. Ebara Indonesia	TPE -ID-002 Lloyd's Register Quality Assurance Limited (Japan)	Region/City: Batang Province: Jawa Tengah	Registered	114 tCO2/year
ID002	Project of Introducing High Efficiency Refrigerator to a Food Industry Cold Storage in Indonesia	Japan: Mayekawa Manufacturing Company Indonesia: PT. Adib Global Food Supplies, PT. Mayekawa Indonesia	TPE-ID-003 Japan Quality Assurance	Sub-district: Bantargebang City/Regency: Bekasi Province: West Java	Registered	120 tCO2/year
ID003	Project of Introducing High Efficiency Refrigerator to a Frozen Food Processing Plant in Indonesia	Indonesia: PT. Adib Global Food Supplies, PT. Mayekawa Indonesia Japan: MAYEKAWA MFG. CO., LTD	TPE-ID-003 Japan Quality Assurance	Sub-district: Cilebar City/Regency: Karawang Province: West Java	Registered	21 tCO2/year

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Serial number in registry

Common specification of the JCM Registry Para 11:

(a) Scheme identifier: “JCM” is stated at the beginning of the account number;

(b) Country identifier: the country in whose JCM registry the account is maintained, identified by means of the two-letter country code defined by the International Organization of Standardization (ISO 3166); and

(c) A unique number: a number unique to that account for the country in whose JCM registry the account is maintained

Sample: JCM-ID-JP-000000001

- JCM: Identification title
- ID: Host country
- JP: Issuance country
- 000000001: Credit ID number

ID Number in Indonesia: JCM-ID-001-01-01-ID-000000001

- JCM: Identification title
- ID: Host country
- 001: Reference number
- 01: Sectoral scope
- 01: Number of issuance
- ID: Issuance country
- 000000001: Credit ID number

The serial number may vary as it is dependent on the country’s registry system of each country while still following the common specification

Types of Credit Transaction in JCM

Source: IGES

1. Transfer

Company A has 50 tCO_2 credit and would like to transfer 25 tCO_2 credit to the holding account of the Government of Indonesia (GoI). GoI account already has 50 tCO_2 credit.

	Before transfer		after transfer
Account A	50 tCO_2	-25 tCO_2 →	25 tCO_2
GoI account	50 tCO_2	+ 25 tCO_2 →	75 tCO_2

2. *Retirement*

Company B has 100 tCO_2 and would like to retire 75 tCO_2 for national reporting

	before *retirement*		After *retirement*
Account B	100 tCO_2	-75 tCO_2 →	25 tCO_2
Retirement account	0 tCO_2	+ 75 tCO_2 →	75 tCO_2

3. Cancellation of credits

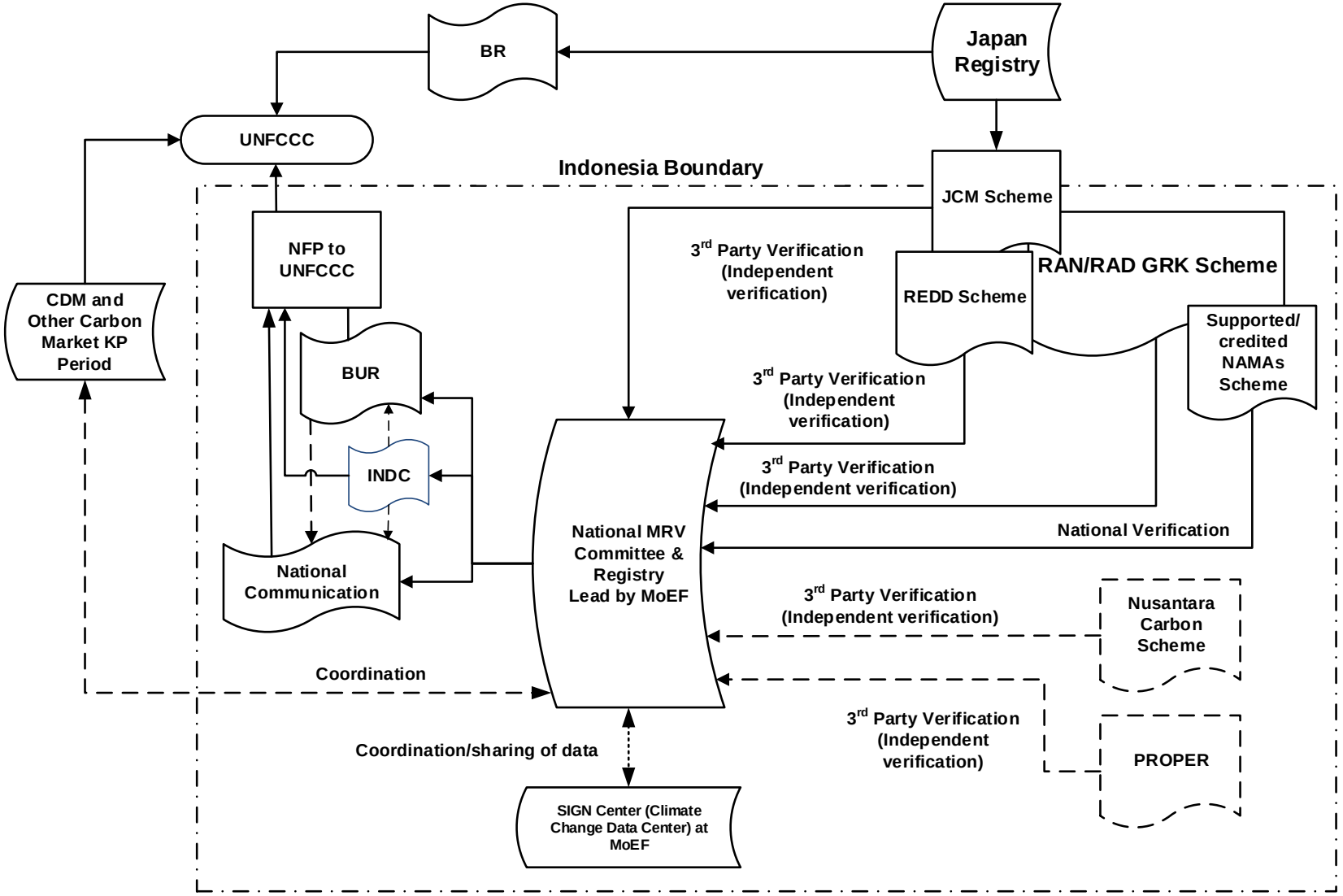
Company A has 25 tCO_2 credit and would like to cancel all of the remaining credits (25 tCO_2)

	Before cancellation		After cancellation
Account A	25 tCO_2	-25 tCO_2 →	0 tCO_2
Cancellation account	0 tCO_2	+ 25 tCO_2 →	25 tCO_2

Report to national registry system

(*JCM common specification para 5: …are used as part of the internationally pledged GHG mitigation efforts by the respective countries)*

Linking JCM with other mitigation activities in Indonesia



Current development of Indonesia JCM registry system and way forward

- Initial stage: Macro-excel based system
  - Number of projects in JCM is still manageable by excel.
  - Everything is done manually.
  - As an offline system, not much virus protection is needed. Currently, Indonesia Secretariat uses a stand alone computer only for the Indonesia registry system.
  - However, if number of projects increased this system will not be suitable.
- Future plan:
  - An online system linked with the national registry
  - “War ship” system is needed and must have proper protection as it may store confidential data

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	iiting credits info is not allowed	Edit Account	
Credits Related Operatic	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	or Indonesian gov and entities	Account Number	Move To
	Retirement Account		Retirement Account	
	Cancellation Account		Cancellation Account	

[Indonesia JCM Registry System Ver 4.1]

Source: IGES

- 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.

  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.

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Thank you! Terima kasih!

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