



Validation / Verification of JCM Scheme

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PT Mutuagung Lestari
Jakarta, May 21st, 2015

Uphold quality, triumph global recognition
in sustained environment



Presentation Outline

1

A brief overview of MUTU Certification International

2

Climate change and emission reduction program

3

Role as observer of JCM's registered projects

4

JCM's designated provisional TPE activity

A brief overview of MUTU

- PT. Mutuagung Lestari is a national CB, with its well known brand of Mutu Certification International (“MUTU”), in the business of Testing, Inspection, and Certification (“TIC”);
- MUTU was established in 1990 and initially accredited by the National Accreditation Committee (“KAN”);
- MUTU has been serving for more than 1500 clients coming from private and government sectors in Indonesia, as well as global clients especially in APAC region;
- MUTU has 5 global branches in APAC region, which are located in China, Japan, Malaysia, Vietnam*, and Thailand*;
- In addition to global exposure, 10 MUTU branches in local area, are existing in Sumatra, Java, Borneo, and Sulawesi islands.

Accreditation and Cooperation

National ACB



International ACB



Provincial Govt.



Repr./Cooperation



Our Services

CERTIFICATION SERVICES

Forest Product Certification

- Legalization Verification (V-Legal)
- Industrial Wood Legalization Verification (VLK-Industri)
- JAS (Japan Agriculture Standard)
- Wood Source Verification
- CE Marking

Resource Management Certification

- ISPO (Indonesia Sustainable Palm Oil)
- RSPO (Roundtable on Sustainable Palm Oil)
- Sustainable Forest Management
- Forest Wood Legalization Verification (VLK-Hutan)
- COC (Chain of Custody)

Management System Certification

- ISO 9001 (Quality Management System)
- ISO 14001 (Environmental Management System)
- ISO 22000 (Food Safety Management System)
- HACCP (Hazard Analysis Critical Control Point)
- Second Party Audit (DQMP and SQMS)
- Ecolabing, Rice Variety, and Organic

ISO 14065 - GHG V/V Certification

TESTING SERVICES

- Laboratory of Testing
 - Environment
 - Wood
 - Agriculture
 - Food
- Laboratory of Calibration

SURVEYING SERVICES

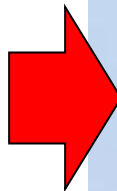
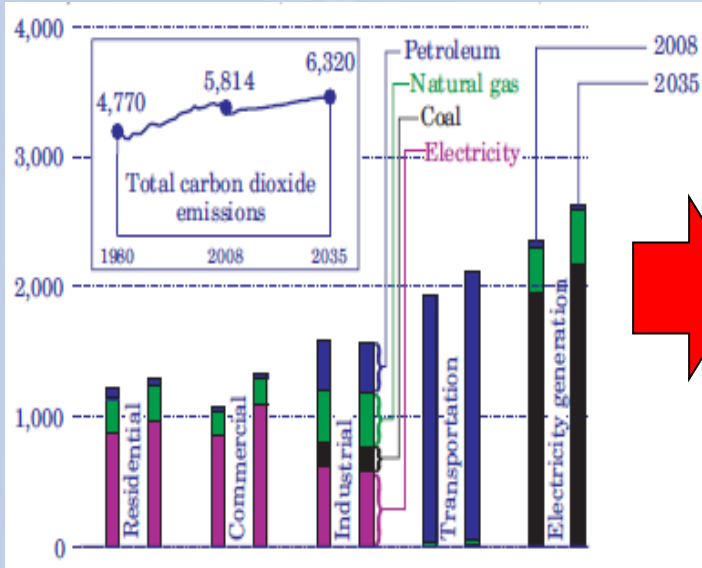
- Marine Survey
- General Cargo
- Palm/Kernel Oil and Kernel Expeller

ON PROGRESS ACCREDITATION

- ISCC (International Sustainability and Carbon Cert.)
- ISO 50001 (Energy Management System)
- IFCC-PEFC (Indonesian Forestry Cert. Cooperation-Program for the Endorsement of Forest Cert.)
- Health and Safety Management System (SMK3)

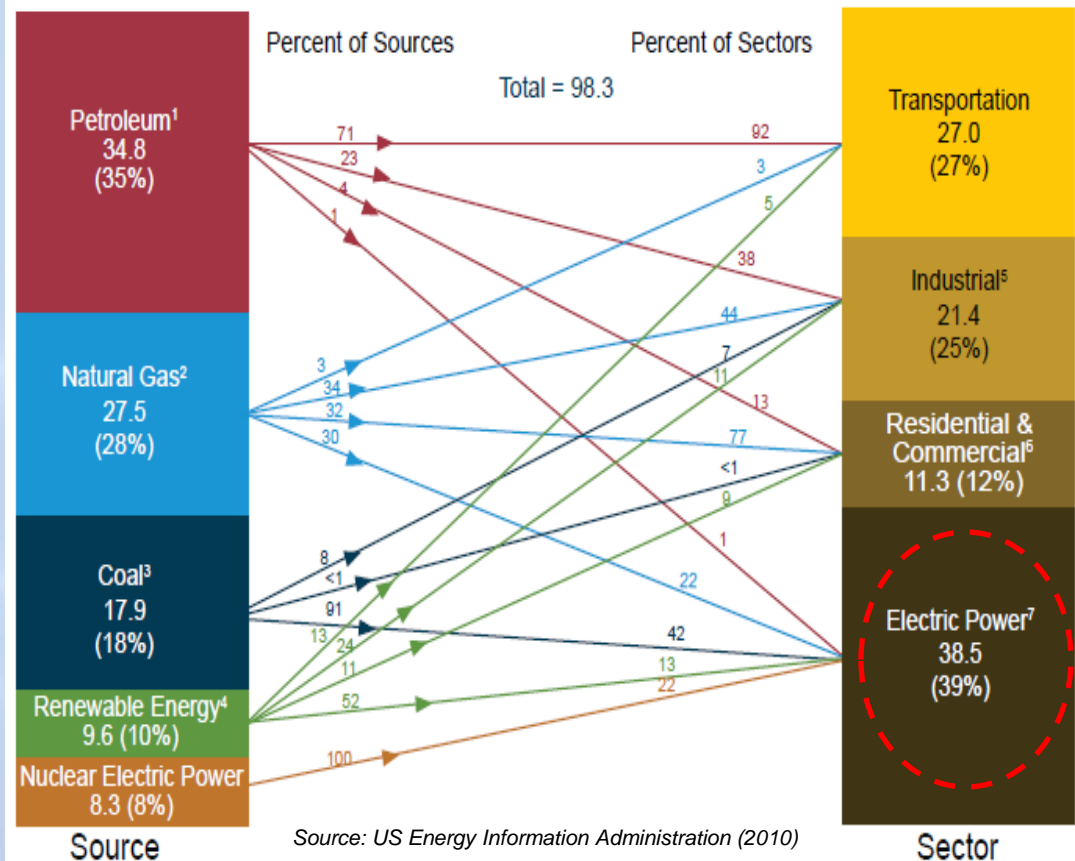
GHG emission from energy Use

Carbon Dioxide Emissions by Sector



Primary Energy Consumption by Source and Sector, 2014

(Quadrillion Btu)

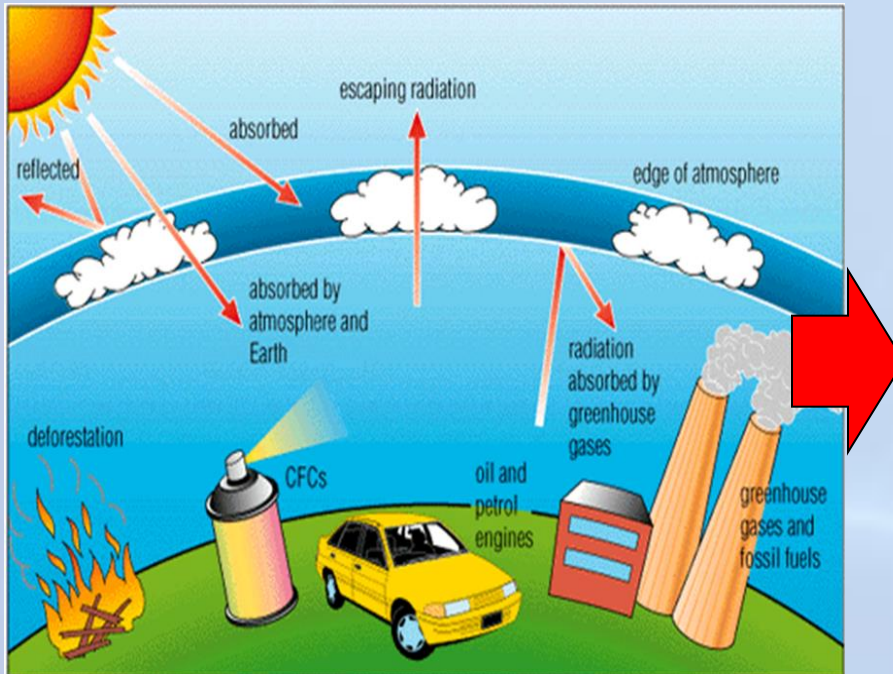


What's on your mind?

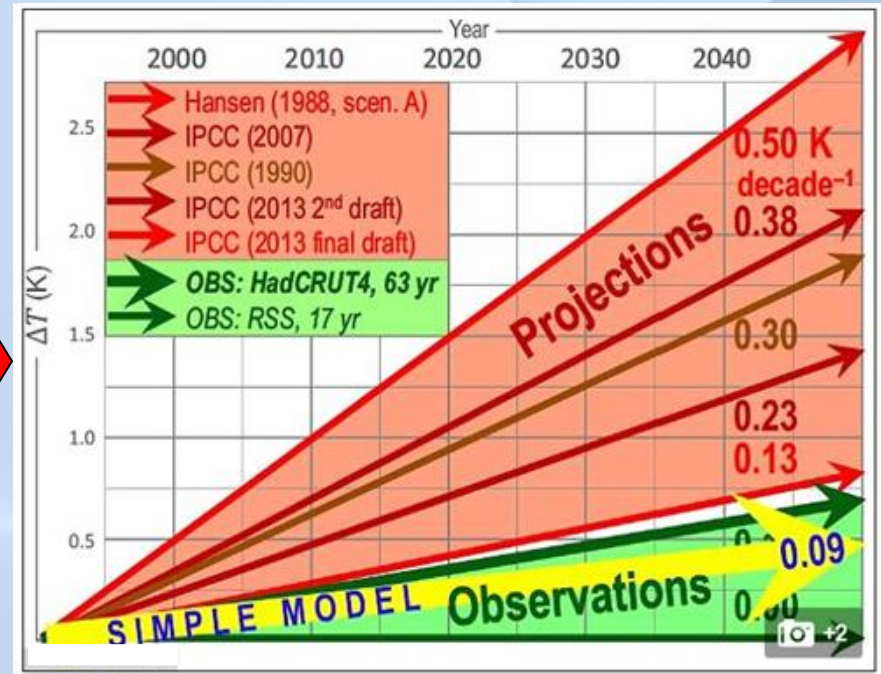
"Energy use directly contributes the global GHG emissions"

GHG emission effects global warming

► GHG Emission Illustration



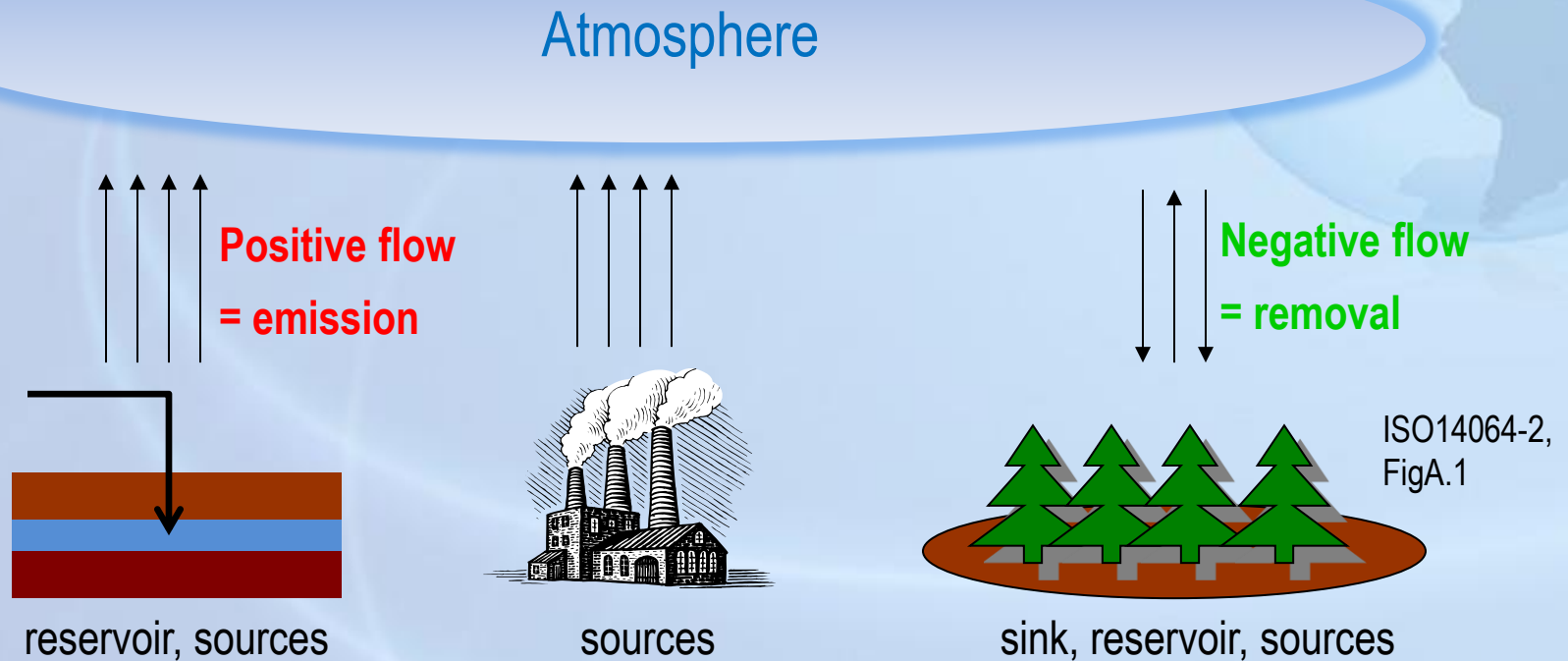
► Global Temperature Trend



What does it means?

THE CLIMATE CHANGE IS FOR REAL!!!

GHG emission reduction program



Proposed activity for GHG emission reduction program:

Alter the conditions identified in the baseline which cause GHG emission reduction and GHG removal enhancement. (ISO 14064-2, definition)

Milestone of JCM's Provisional TPE



Oct 2014

Application for the accreditation under ISO 14065 to KAN

Nov 2014

- General assessment by KAN, and MUTU was complying all standard conformities
- Observation of the 1st JCM's project in Batang, C. Java, INA

Jan 2015

- Observation of the 2nd & 3rd JCM's project in Bekasi and Karawang (both located in the W. Java)
- Participation in JCM's Training and Workshop, conducted by the JCM Committee in Jakarta

Mar 2015

Submission of application form for the JCM's TPE to the Joint Committee

Apr 2015

Application is deemed complete by the Joint Committee

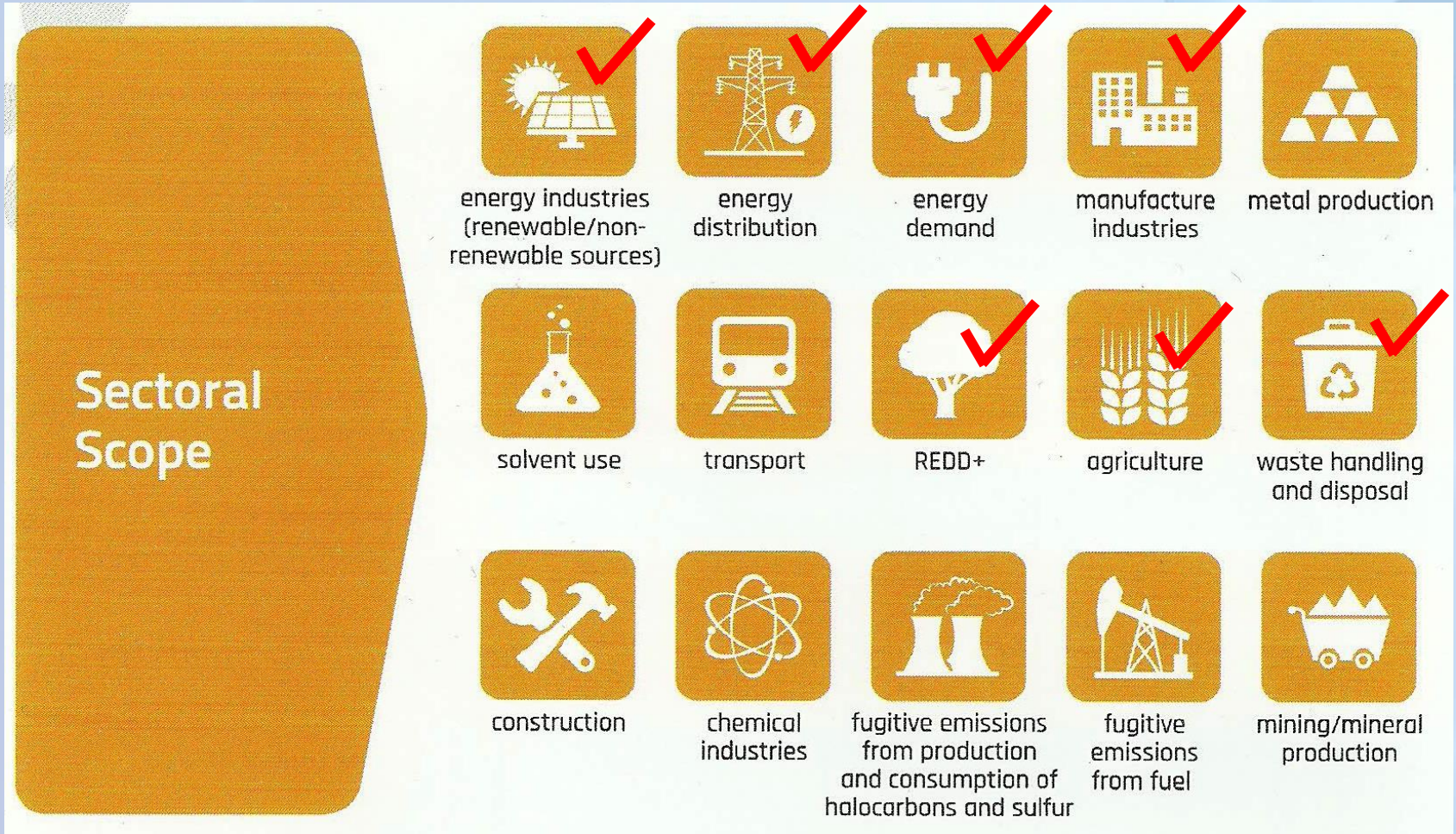
May 2015

Mutuagung is designated as the first JCM's Provisional TPE in the ASEAN region by the JCM Joint Committee

June 2015

Witness assessment by KAN on JCM project as accreditation requirement

MUTU's proposed sectoral scope(s)



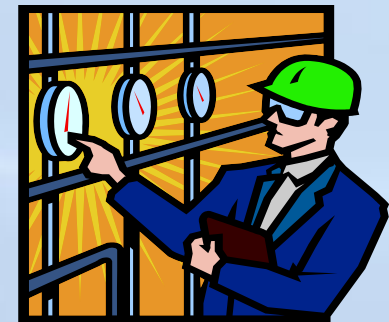
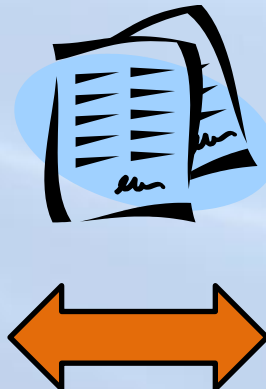
JCM's registered v/v projects in INA

Project	Methodology	Objectives of the Project	TPEs	PPs
ID#001	JCM_ID_AM002 Ver01.0 (17 Sep-14)	Change and install new chiller of high-efficient centrifugal chiller at 499 USRt in order to reduce 114 tCO ₂ e GHG emission of electricity use (8% energy saving).	LRQA Japan	Nipon Koei & Ebara Ref.ES
ID#002	JCM_ID_AM003 Ver01.0 (30 Oct-14)	Reduce 120 tCO ₂ e of GHG emissions annually. Cooling capacity of the refrigerator is 189 kW and power cons. is 86kW. (29% energy saving).	JQA Japan	Maye kawa & PT. AGFS
ID#003	JCM_ID_AM003 Ver01.0 (30 Oct-14)	Reduce 21 tCO ₂ e of GHG emissions annually. Cooling capacity of the refrigerator is 70 kW and power cons. is 43kW. (22% energy saving).	JQA Japan	Maye kawa & PT. AGFS

- ID #001: Energy saving for Air-conditioning and Process Cooling plant by introducing **High-Efficiency Centrifugal Chiller to a Textile Industry** (Batang, central Java)
- ID #002: Energy saving by introducing **High-Efficiency Refrigerator to a Food Cold Storage** plant in Indonesia (Bekasi, west Java)
- ID #003: Energy saving by introducing **High-Efficiency Refrigerator to a Frozen Food Processing Plant** in Indonesia (Karawang, west Java)

Role as observer of JCM project-1

1. Participated in the JCM's v/v activity as an observer in the team of TPE from the day when the draft PDD was submitted to the JC until the day when the JCM's v/v report was submitted to the JC;
2. Reviewed the approved PDD(s), given by the TPE;
3. Participated in the on-site assessment, and may asked questions directly to the project participants by consent from the TPE team leader;



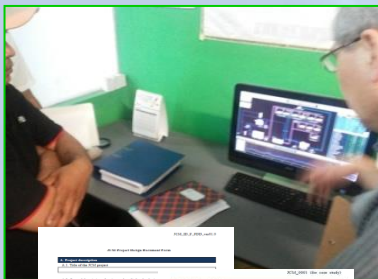
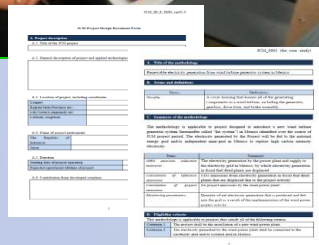
Role as observer of JCM project-2

4. Reviewed the draft of the JCM's v/v activity report from TPE and provided comment to TPE team;
5. Asked questions regarding PDD or draft validation report including validation findings within the team, through emails or other means;
6. Prepared and submitted JCM's v/v activity report to Indonesia JCM Secretariat.



The JCM's v/v process procedure

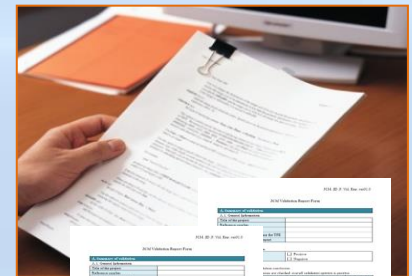
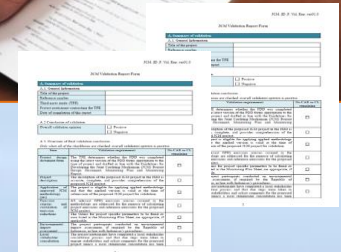
1. Conduct a desk review concerning the proposed JCM's v/v project before conducting a v/v activity
2. Validate and/or verify the modalities of communication (MOC), the proposed JCM project (PDD and monitoring plan sheet, etc.)
3. Prepare a JCM's v/v project report (please referred to the v/v project report forms)

Desk review



On site assessment
and interview, etc

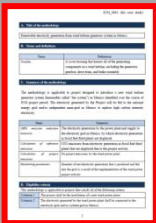



Prepare a JCM's v/v
project report

Flow of JCM's v/v reporting

Desk review

PDD ID#1



PDD ID#2



PDD ID#3



On site assessment and interview

Projects
#1,2,3

Power consumption
Genset operation

kW/month
hr/month

Document

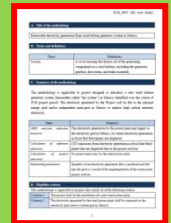
Project Participants:
Indonesia manufacture plant
Local validatee or organisation

Document

Japan PP Principal
Japan JCM Secretariat
Indonesia JCM Secretariat

Reporting


Report #1



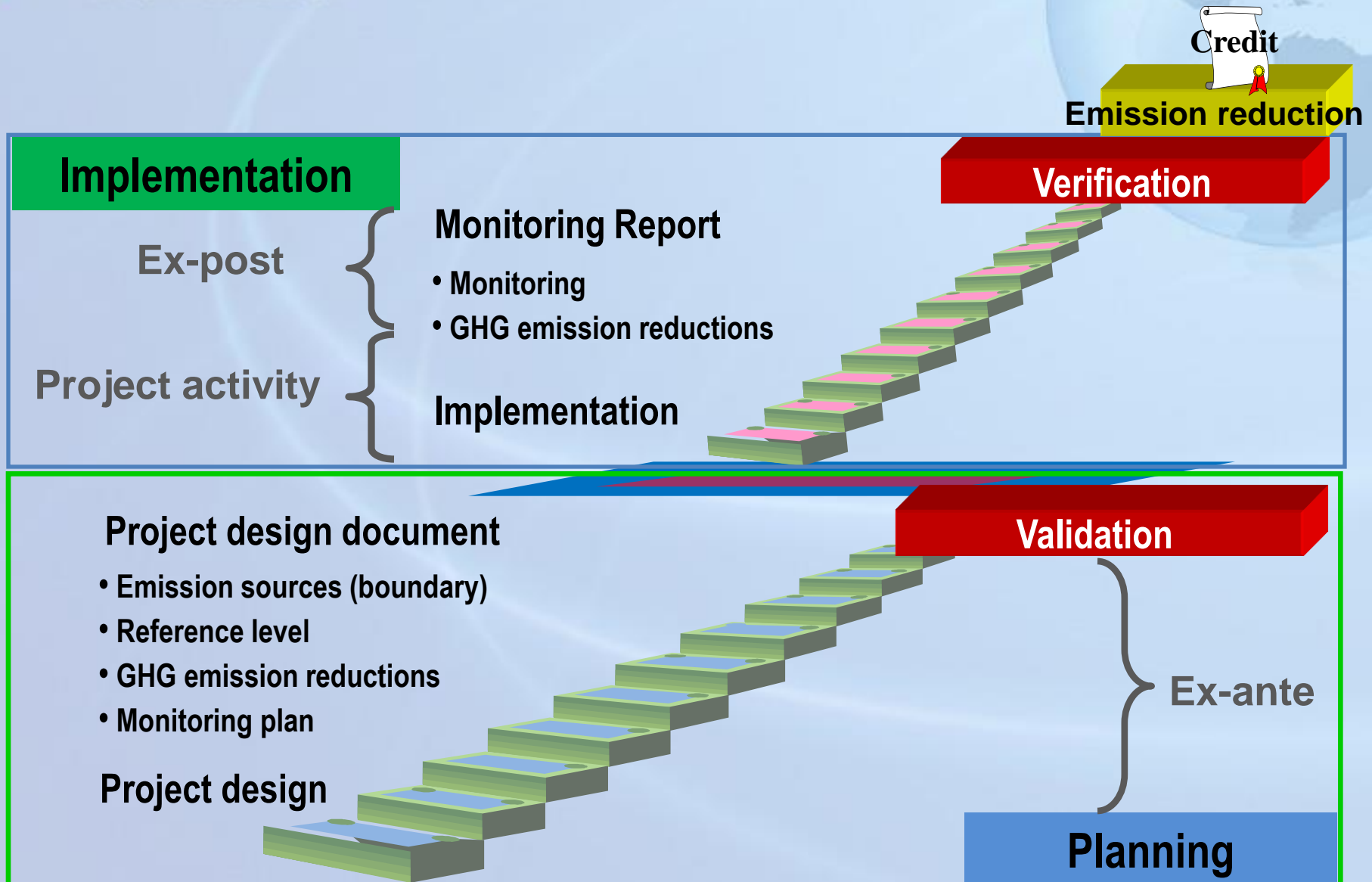
Report #2



Report #3



Process of GHG projects



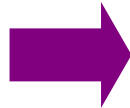
JCM's provisional TPE activity-1



TPE role on Validation activity

Requirements

- JCM rule, guideline
- Methodologies
- and so on



TPE

Assessment

- Project design document



Report

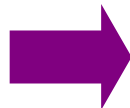
- Validation report



TPE role on Verification activity

Requirements

- Project design document
- JCM rule, guideline
- Methodologies, and so on



TPE

Assessment

- Monitoring report



Report

- Verification report
(Certification)

JCM's provisional TPE activity-2

Planning (project design)

Project Participants

Project Design Document (PDD) (including Monitoring Spreadsheet)

- Project description
- Application of approved methodology
- Calculation of emission reductions
- Environmental impact assessment
- Local stakeholder consultation
- Monitoring plan (Spreadsheet)
- Other relevant items

Modalities of Communications (MoC)

- Nomination of focal point
- List of project participants
- Other relevant items

TPE

steps for validation

PDD

MoC

(refer to relevant JCM guidelines)

Validation
Report
(use
Validation
Report Form)

Implementation

Project Participants

Monitoring Report (MR)

- Monitoring system
- Calculation of emission reductions
- Other relevant items

TPE

steps for verification

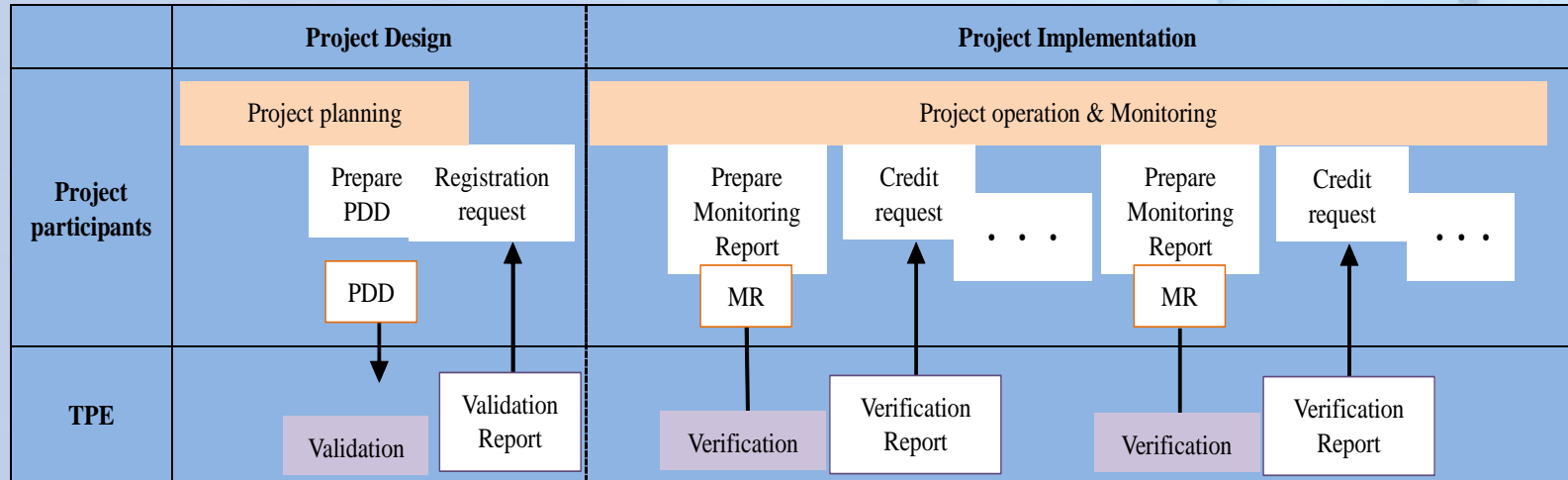
Monitoring Report

(refer to relevant JCM guidelines)

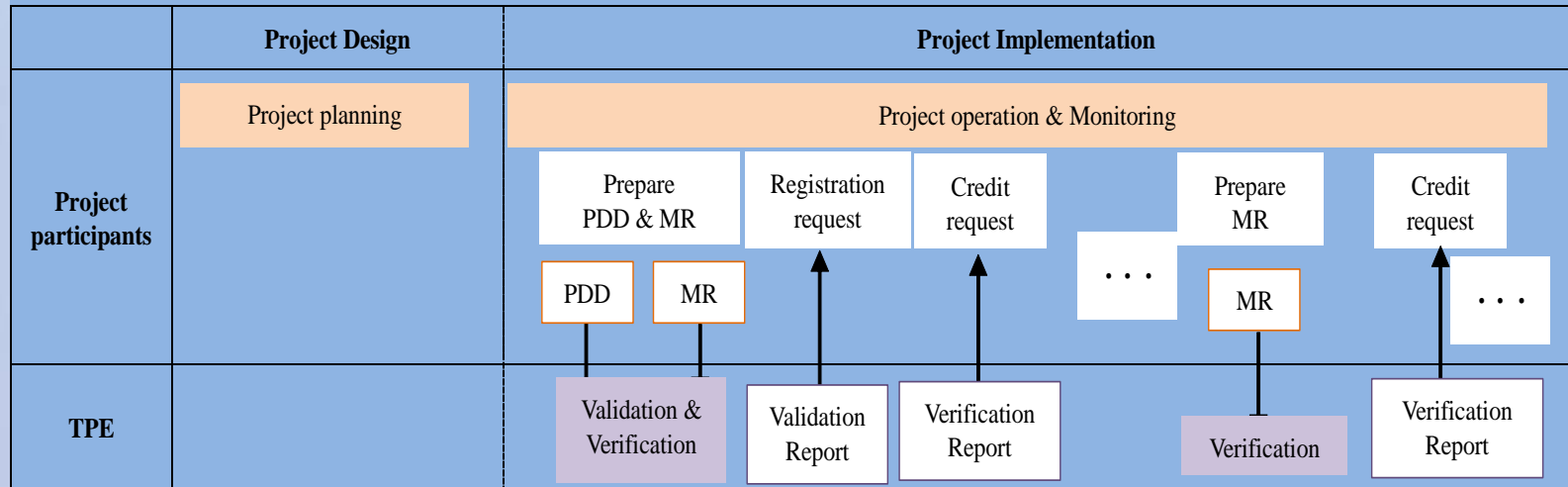
Verification
Report
(use
Verification
Report Form)

JCM's provisional TPE activity-3

Validation/verification carried out separately



Validation/verification carried out simultaneously



MUTU concerns on sustainability

- MUTU has been committed to serve environmental sustainability certification, and accredited by KAN, ASI (RSPO & COC), ISPO, designated CB for JAS (MAFF Japan), Indonesian Ecolabelling Institute (LEI), Ministry of Agriculture ROI, CARB-USA, Soil Association* (UK), BM-Trada* (UK), and WKI* (Germany);
- MUTU has been designated as the first JCM Provisional TPE in ASEAN region for conducting validation/verification in GHG emission projects based on the standard of ISO 14065;
- MUTU has been actively involving in the SocialCarbon (registered as certifying entity) and GHG emission reduction programs, both on local and global contexts;
- MUTU has qualified and experienced auditors in performing sustainable assessments for local and global clients.



Thank you – Arigatou gozaimasu Terima kasih – Xie xie

If you have any question, please feel free to contact me.

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