

JICA Climate Change Cooperation Strategy and Introduction to the Session

- COP22 Japan Pavilion -

November 2016



Photo (Indonesia): JICA / Mika Tanimoto

JAPAN's assistance in the field of Climate Change

	Average annual public finance from 2010 to 2012 (for 3 years)	Average annual public finance from 2013 to 2014 (for 2 years)
Total amounts	US\$ 4.5 Billion	US\$ 8.2 Billion

Source : <http://unfccc.int/resource/docs/2013/cop19/eng/inf01.pdf>

: https://unfccc.int/files/national_reports/biennial.../japan_br2.pdf

JICA Climate Change Cooperation Strategy

Priority Issues

- 1 Promoting low-carbon and climate-resilient urban development and infrastructure investments
- 2 Enhancing comprehensive climate risk management
- 3 Support to climate policy and institutional development**
- 4 Enhanced conservation and management of forests and other ecosystems



Priority issue 3: Support to climate policy and institutional development

What JICA will support:

- 3 -1 Formulation of climate action plans at national and local-levels, and integration of climate change mitigation and adaptation into development policies/plans
- 3 -2 Capacity development to undertake the process of NDC preparation, monitoring, reporting and review as provided in the Paris Agreement
- 3 -3 Improvement of policies and institutions to encourage private sector activities and investments in climate change
- 3 -4 Improved access to climate finance for countries and cities

JICA's Technical Cooperation on Climate Change In Indonesia

Agenda1. Mainstreaming climate change adaptation into development planning
Agenda2. Strengthen climate change projection and vulnerability assessment

Agenda3. Accelerating mitigation policy and action plan
Agenda4. Strengthening GHG inventory development and MRV

Adaptation

Mitigation

Innovative and comprehensive approach with flexibility

1. Project of Capacity Development for Climate Change Strategies in Indonesia (October 2010 – October 2015)

SUB-PROJECT1

Adaptation

Mitigation

Mainstreaming of Mitigation and Adaptation In National Development Planning

SUB-PROJECT2

Adaptation

Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors

SUB-PROJECT3

Mitigation

Preparation of national GHG Inventories

2. Project of Capacity Development for Green Economy Policy in Indonesia (December 2013 – October 2015)

Enhancement of capacity of Ministry of Finance to formulate fiscal and financial incentives in promoting low carbon and green economy

Mitigation

3. Project of Capacity Development for the National Focal Point on Climate Change to Enhance the Coordination and Evaluation of Climate Change Policies in Indonesia (November 2012 – December 2014)

Strengthening institutional capacity of National Council on Climate Change as the National Focal Point on Climate Change in Indonesia, through enhancing coordination and evaluation of climate change policies.

Mitigation

4. Capacity Development Assistance for Low Carbon Development in Indonesia (May 2014 –December 2017)

Promotion of investment and deployment of low carbon technologies, products, services, and infrastructure through Joint Crediting Mechanism (JCM)

Mitigation

5. Indonesia-Japan Project for Development of REDD+ Implementation Mechanism (IJ-REDD+) (June 2013 – June 2018)

Development of REDD+ implementation mechanism by the Project to be integrated into national REDD+ mechanism

Mitigation

Capacity Development Assistance for Low Carbon Development in Indonesia

JICA and the Coordinating Ministry for Economic Affairs, Indonesia have been conducting the technical cooperation project.

- Period: May 2014 - December 2017
- Project purpose: Capacity of the Joint Committee and the Secretariat of Joint Crediting Mechanism (JCM)* is strengthened towards low carbon development.

* “Bilateral Cooperation on the JCM for the Low Carbon Growth Partnership between Japan and Indonesia” was signed in August 2013.



Capacity Development Assistance for Low Carbon Development in Indonesia

1. Operationalization of JCM in Indonesia

- Institutional set-up of Indonesia JCM Secretariat
- Support for JCM project appraisal, registration and credit issuance
- Facilitating JCM process

2. Monitoring and Evaluating of JCM

- Support for monitoring and evaluation scheme of JCM
- Periodical report on monitoring and evaluation of JCM

3. Awareness Raising and Capacity Building

- Seminars and workshops for related ministries, private sector and others, such as Business Forum (2014, 2015), Indonesia Green Infrastructure Summit (2015), 3 year JCM anniversary event (2016)
- Information dissemination at international conferences
- Indonesia JCM website and PR/outreach materials

4. Policy Studies and Technical Assessment

- Linkage with JCM and other mitigation schemes
- Barriers and countermeasures in financing and promoting JCM
- Policy and financial Analysis for biogas power plant in palm oil sector

First JCM credits !

This project contributes to the issuance of First JCM credits in JCM history in Indonesia(May 2016).

(40 tCO₂ / year)



Photo (Indonesia) : JICA / Project



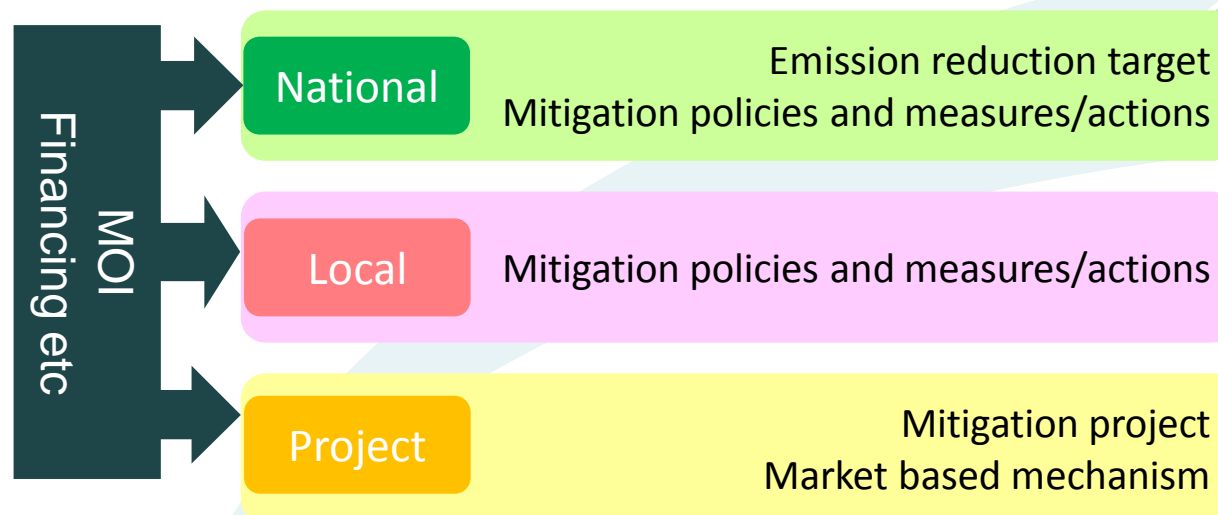
Photo (Indonesia) : JICA / Project

Session Overview

- **Objectives:** To provide progress of mitigation policies and measures in national, local and project levels in Indonesia
- **Presentation** (15mins for each):
 1. JCM Implementation in Indonesia
 2. Climate Mitigation Financing Indonesia's NDC
 3. Implications of Paris Agreement: Case of Indonesia
- **Discussion** (25mins)

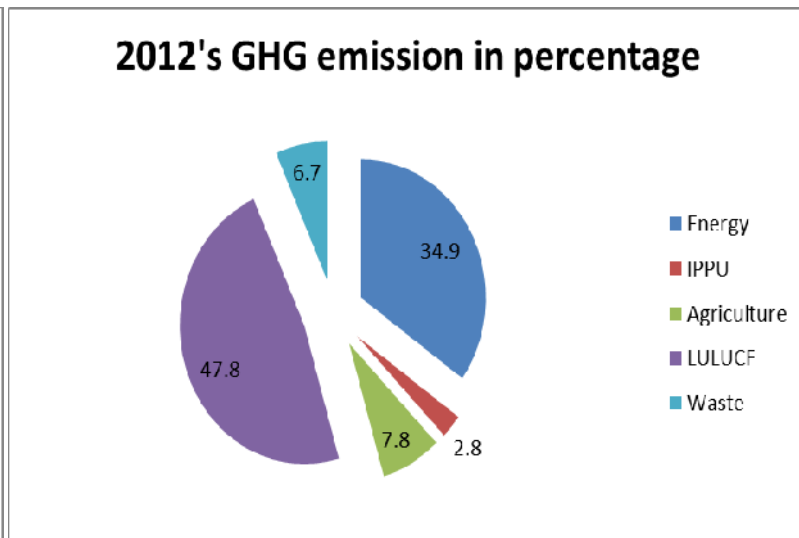
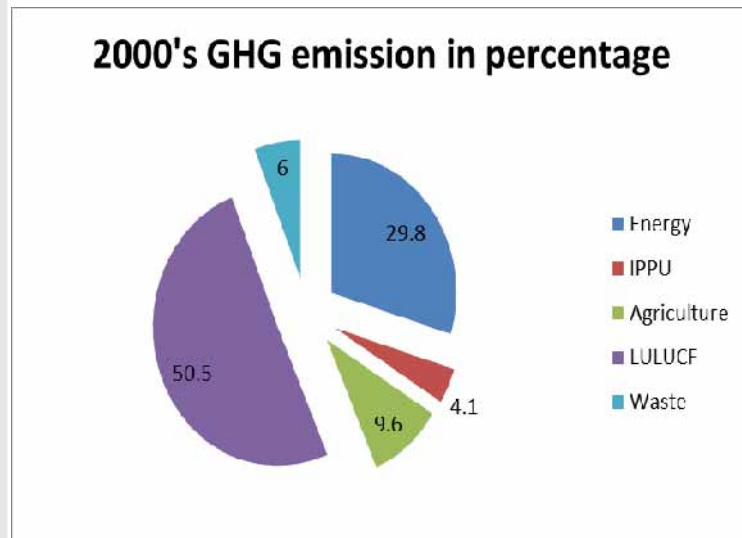
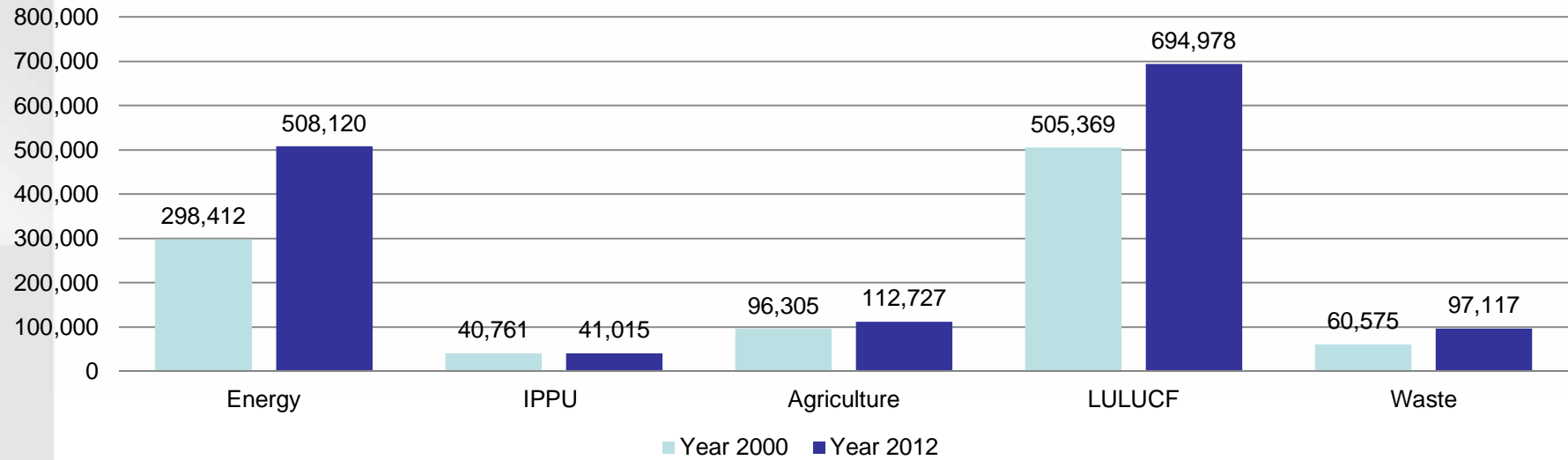
Various mitigation actions in various levels in Indonesia

Low Carbon Development



GHG Emissions in Indonesia

Summary of 2000 and 2012 GHG emissions



National and Local Mitigation Action Plans by 2020

(in 2009) President's commitment at G-20 (Pittsburgh) and COP15 (Copenhagen)

for Reducing GHG emission **by 2020**

26%

Own efforts

26+15=41%

Own efforts + International support

PERPRES 61/2011 on national action plan for GHG emission reduction (RAN-GRK)

PERPRES 71/2011 on GHG Inventory

Forestry and Peatland

Agriculture

Energy and Transportation

Industry

Waste Management

Source : RANGRK Secretariat, edited by Ichihara 国際協力機構

National and Local Mitigation Action Plans by 2020

- RAN-GRK was allocated GHG emission reduction target by sector.
- Responsible ministries have implemented mitigation action and reported the progress periodically.

Sector	Gton CO ₂ e	% (out of 26)
Landbase (Forestry, Peat)	0.672	22.78
Agriculture	0.008	0.27
Industry	0.001	0.03
Energy and Transportation	0.038	1.29
Waste	0.048	1.63
Total	0.767	26%

Source : RAN-GRK

- Local (Provincial) action plans (RAD-GRK) were developed and have been implemented by all of 33 provincial governments.

Indonesia's First NDC

- First NDC was submitted on November 9, 2016.
- Unconditional reduction: 29% by 2030
- Conditional reduction: 41% by 2030
- Most of emission reduction are done by Forestry and Energy Sectors

Table 1. Projected BAU and emission reduction from each sector category

No	Sector	GHG Emission Level 2010* M Ton CO ₂ e	GHG Emission Level 2030 (M Ton CO ₂ e)			GHG Emission Reduction (M Ton CO ₂ e)				Annual Average Growth BAU (2010-2030)	Average Growth 2000-2012*
			BaU	CM1	CM2	% of Total BaU					
						CM1	CM2	CM1	CM2		
1	Energy*	453.2	1,669	1,355	1,271	314	398	11%	14%	6.7%	4.50%
2	Waste	88	296	285	270	11	26	0.38%	1%	6.3%	4.00%
3	IPPU	36	69.6	66.85	66.35	2.75	3.25	0.10%	0.11%	3.4%	0.10%
4	Agriculture	110.5	119.66	110.39	115.86	9	4	0.32%	0.13%	0.4%	1.30%
5	Forestry**	647	714	217	64	497	650	17.2%	23%	0.5%	2.70%
	TOTAL	1,334	2,869	2,034	1,787	834	1,081	29%	38%	3.9%	3.20%

* Including fugitive

**Including peat fire

Notes: **CM1** = Counter Measure (*unconditional mitigation scenario*)

CM2 = Counter Measure (*conditional mitigation scenario*)

Source : First NDC in Indonesia

Key Questions

1. What kind of challenges did or will you encounter?
(challenges in the process of NDC/national mitigation policies as well as possible future challenges for NDC implementation)
2. How to overcome the above challenges?
 - ❑ What are keys to effectively implement NDC?
 - ❑ What kind of preparation of instruments/measures has done (i.e. incentives/financing measures/capacity development)? Any good practices/lessons so far?
3. What kind of policy measures are possibly useful and effective for NDC implementation?
 - ❑ For example, what is role of Market based mechanism (JCM) in NDC ? How we can effectively use it? How about other economic instrument (at domestic and international level)?

Thank you for your attention.

【JICA's Contributions to the Global Fight Against Climate Change】
On-line with YouTube

10 min. version Japanese <https://youtu.be/wzR0srJEdwk>

English https://youtu.be/pyf_nI-50CM

30 min. version Japanese <https://www.youtube.com/watch?v=T59aZvNtpAY>

English <https://youtu.be/NdJZc2Pk0Vs>



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