## Outcomes of COP16/CMP6 and related UN Climate Change Conferences



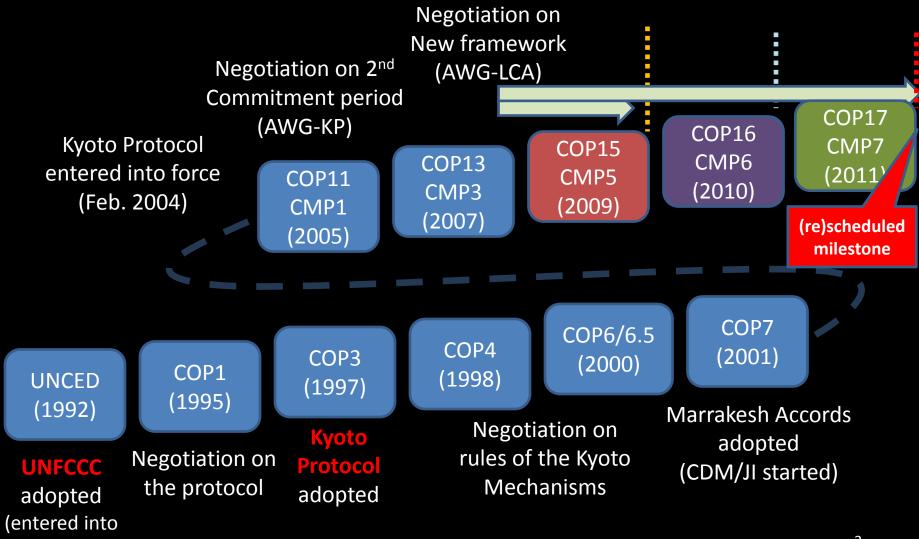
The Second CDM Training Programme

Friday, 8 July 2011 Satoshi Iemoto, JICA Expert Team

# Contents of presentation

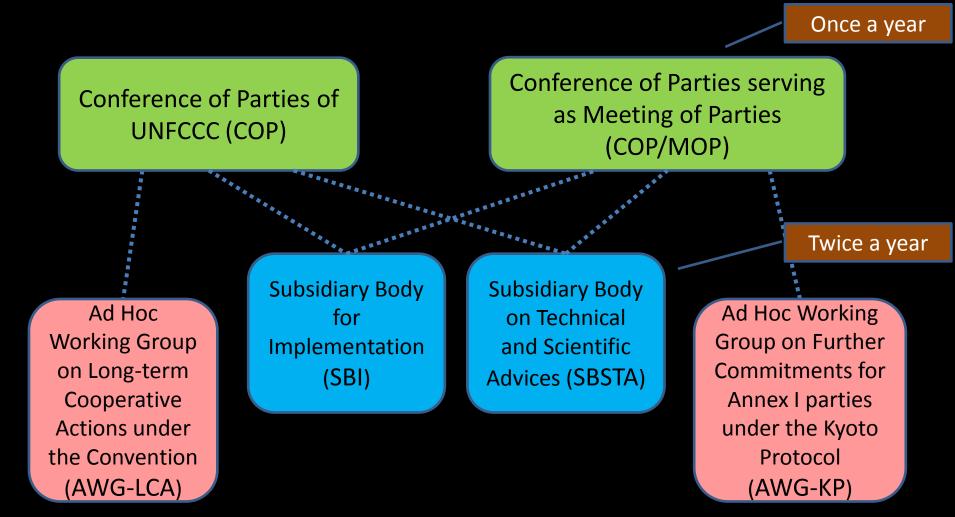
- Background information on Climate Change negotiations
- Outcomes of COP16/CMP6
- Outcomes of related UN Climate Change Conferences (AWGs)
- Expected future framework (post Kyoto)
- Submission on New Market-based Mechanism
- Japan's Initiative on Bilateral Offset Credit Mechanism (BOCM)

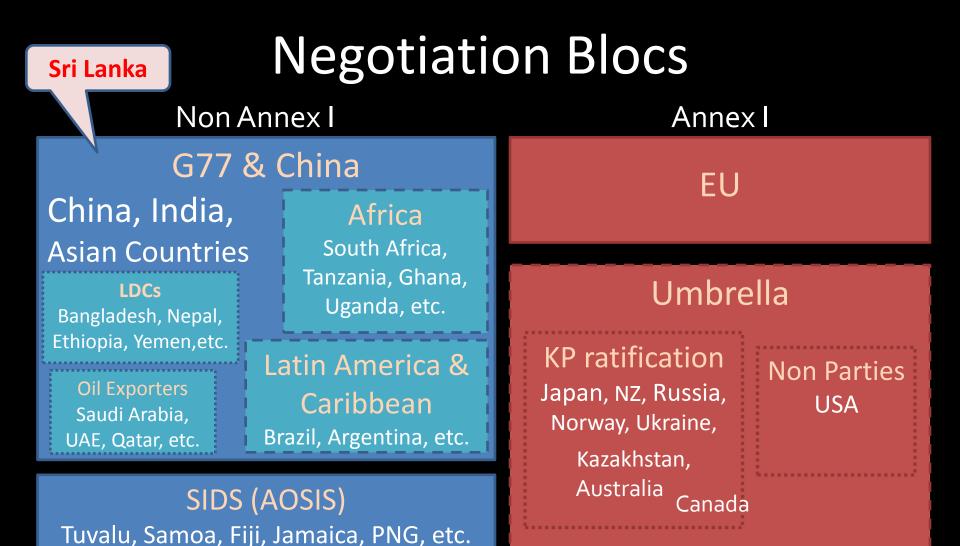
#### Brief history of Climate Change Negotiations



force in 1994)

## Relationship between COP and AWG





Environmental Integrity Group Switzerland, Mexico, Rep of Korea etc.

\* Depending on Issues, Countries changes their groups.

# UNFCCC meeting schedule in 2009-11

Date	Meeting	Venue
Dec. 2009	COP15/CMP5	Copenhagen, Denmark
Apr. 2010	AWG-KP11/LCA9	Bonn, Germany
Jun. 2010	SB32/AWG-KP12/LCA10	Bonn, Germany
Aug. 2010	AWG-KP13/LCA11	Bonn, Germany
Oct. 2010	AWG-KP14/LCA12	Tianjin, China
Dec. 2010	COP16/CMP6	Cancun, Mexico
Apr. 2011	AWG-KP16/LCA14	Bangkok, Thailand
Jun. 2011	SB34/AWG-KP16/LCA14 (part2)	Bonn, Germany
Oct. 2011	AWG-KP16/LCA14 (part3)	Panama city, Panama
Dec. 2011	COP17/CMP7	Durban, South Africa

## Discussion of CDM issues at CMP6

- CDM matters
  - Appeal Process
    Continue to discuss
  - Loan Scheme
  - Standardized Baseline
  - Eligibility of CCS

Continue to discuss → Agreed → Agreed → Agreed

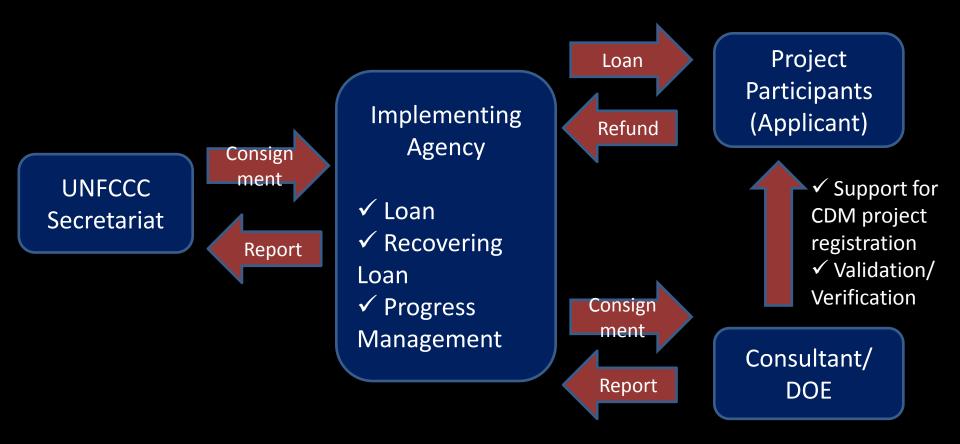
- Market Mechanism for after 2013
  - Mechanisms under Kyoto Protocol 

     Continue to discuss
  - Mechanisms under UNFCCC
    Agreed to establish

# CDM Loan Scheme

- Loan coverage: From PDD development to 1<sup>st</sup> CER issuance (incl. validation and 1<sup>st</sup> verification cost)
- Eligibility (Host country): Fewer than 10 registered project countries as of 1 January (each year)
- Eligibility (Project): 15,000 CO2t/year (7,500 CO2t/year for LDC/SIDS)
- Conditions: Free of interests, Reimbursement will start after 1<sup>st</sup> CER issuance

# CDM Loan Scheme (cont.)

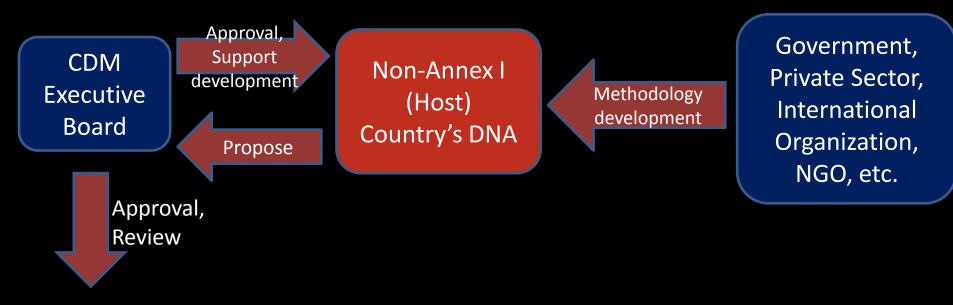


\* Implementing Agency is not yet consigned/ designated. (World Bank and regional development banks (ADB, etc) are leading candidates.)

# Standardized baseline

- Define baseline and additionality demonstration as one methodology
- Proposal will submit to CDM-EB through host country's DNA
- Reduce the cost for methodology development, improve objectivity and predictability

# Standardized baseline (cont.)



#### <Standardized Baseline>

**Baseline Scenario and Emission** 

(e.g. Use of incandescent lamp and CO2 emission calculation) <u>Additionality Demonstration</u>

(e.g. Penetration level is less than 5% of use of fluorescent lamp)

# Appeal process

- Further guidance relating to the CDM (decision -/CP.16):
  - 18. *Requests* the SBI to make recommendation to CMP for appeal against EB decisions;
  - 19. *Invites* Parties, intergovernmental organizations and admitted observer organizations to submit to the secretariat, by 28 March 2011, their views on this matter;

#### $\rightarrow$ Still under discussion

(Which organization will be a body for appeal process (aside from CDM-EB/UNFCCC Secretariat)???)

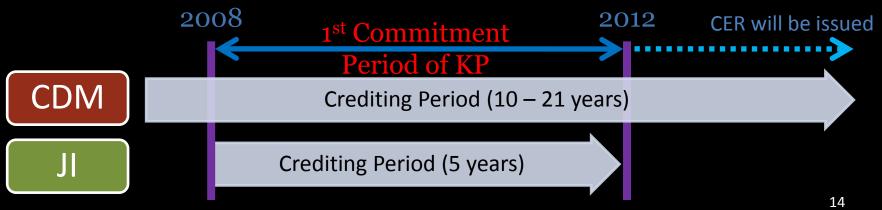
# Carbon Capture and Storage (CCS)

- Carbon dioxide capture and storage in geological formations as CDM project activities (decision -/CP.16):
  - 1. *Decides* the CCS is eligible as project activities under the CDM...
  - 2. *Requests* the SBSTA35 to elaborate modalities and procedures for inclusion of CCS as project activities under the CDM...
  - 3. *Decides* that the modalities and procedures...the following issues:
  - ✓ Selection of storage site, monitoring plan, criteria for site selection, boundaries, risk and safety assessment, short-, medium- and long-term liability for leakage, etc.

→ PP have to wait for the outcome of above issues. (Not yet to ready for registration by CDM-EB.)

# **Continuation of Market Mechanism**

- No parties against continuation of CDM at CMP6. (Many parties supported continuation of CDM after 2013.)
- CER will be generated and issued after 2013.
- Generation of ERU (JI) limited from 2008 to 2013.



#### Discussion at AWG-KP and AWG-LCA

#### AWG-KP

#### CDM options (draft)

- Nuclear, Co-benefit, Utilize CERs from limited number of parties (LDCs, SIDS, etc.), Discount of CERs, etc.
- JI options (draft)
  - Nuclear, Co-benefit, etc.
- Others (draft)
  - Carry-over, Charging to AAU and RMU, New Market Mechanisms, Complementarity

#### Not agreed (remain conflict of opinions)

#### AWG-LCA

- Consider establishment of Kyoto Mechanism at COP17
- Current scheme (CDM, JI and IET) will utilize for future
- Further consideration of Market Mechanisms



# Treatment of Market Mechanism issues at AWG-LCA

#### COP decision (decision -/CP.16):

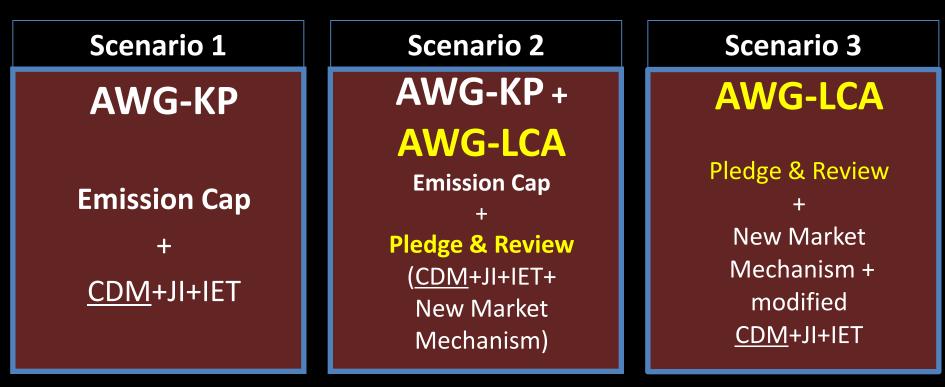
- 80. Decides to consider the establishment, at COP17 of <u>one or more</u> market-based mechanisms to enhance the cost-effectiveness of, and to promote, mitigation actions, ...
- 81. Requests the AWG-LCA to elaborate the mechanism or mechanisms referred to in para 49 (NAMA by NAI), with a view to recommending a draft decision or decisions to the COP for consideration at COP17;

Treatment of Market Mechanism issues at AWG-LCA (cont.)

#### COP decision (decision -/CP.16):

- 82. Invites Parties and accredited observer organizations to submit the secretariat, by 21
   February 2011, their views on matters referred to in para 81 above;
- 83. Undertakes, in developing and implementing the mechanism or mechanisms referred to in para 80, to maintain and build upon <u>existing</u> <u>mechanisms, including those established under</u> <u>the Kyoto Protocol;</u>

#### Scenarios for Market Mechanisms (2013-)



(Above scenarios are made by IGES)

✓ <u>CDM</u> will continue at any scenario.
✓ New Market Mechanisms includes NAMA, SCM, REDD+, etc.
✓ JI and IET will available with Emission Cap (If no Emission Cap, JI and IET doesn't work)
✓ Management of Unit (CER, ERU, AAU, etc.) will continue after 2013.

# Topics for further negotiations

CDM

- Request for further improvement of management and regional distribution issues
- Delayed process, unclear EB's decision-making and further confidence building measures are keys to improve current situation

JI

Unclear of JI management after 2013

# Topics for further negotiations

Market Mechanism after 2013

- "Cancun Agreement" clarified the direction
- Expand Market Mechanism through "Bilateral Crediting Mechanism(BOCM)", "Sectoral Crediting Mechanism" etc.
- Still several Parties (Bolivia, Venezuela, Cuba, etc.) against for market mechanism issue

# Background of Bangkok AWG

AWG-LCA14/AWG-KP16 (3-8 April 2011 @Bangkok)

- First UNFCCC negotiation meeting after the COP16@Cancun (Dec. 2010).
- Expected for materialize the "Cancun Agreement" and negotiate for further agreement.
- Bangkok AWG meeting planned to decide the workload of first half of the year 2011.
- COP17 is the deadline for agreement of new framework after 2013 (if no agreement at COP17, we'll face the "gap" (no commitment) between 1<sup>st</sup> and new/2<sup>nd</sup> Commitment period).

- AMG-LCA14
  - Annex I: Start negotiation based on "Cancun Agreement"
  - NAI: Start negotiation based on "Bali Action Plan"
  - They couldn't negotiate the issues. Only agreed for agenda items for next AWG session.

- AMG-KP16
  - NAI: Annex I should agree on set up 2<sup>nd</sup>
     Commitment period of KP (after 2013). NAI
     Parties requested to deliver the political will at COP17.
  - Japan and other AI Parties repeated their position.
    - Cannot accept 2<sup>nd</sup> Commitment Period. Establish a new legally-binding framework impartiality and effectiveness (with participation of all major economies).

- Pre-sessional Workshops
  - Workshop on assumptions and conditions related to the attachment of quantified economy-wide emission reduction targets by developed country Parties
  - Workshop on nationally appropriate mitigation actions submitted by developing country Parties, underlying assumptions, and any support needed for implementation of these actions

Expert workshop on the Technology Mechanism

- Pre-sessional Workshops (cont.)
  - Parties delivered presentation of views and policies for their target/action (based on the request by "Copenhagen Accord" for explain their position to other countries. Not for negotiation).
  - 17 Parties delivered presentation of emission reduction target (developed country)
  - 12 Parties delivered presentation of NAMA (developing country)

All presentation materials are available at : <a href="http://unfccc.int/meetings/awg/items/5928.php">http://unfccc.int/meetings/awg/items/5928.php</a>

# Background of Bonn SB/AWG

SBI34/SBSTA34 and AWG-LCA14/AWG-KP16 (part2) (6-17 June 2011 @Bonn)

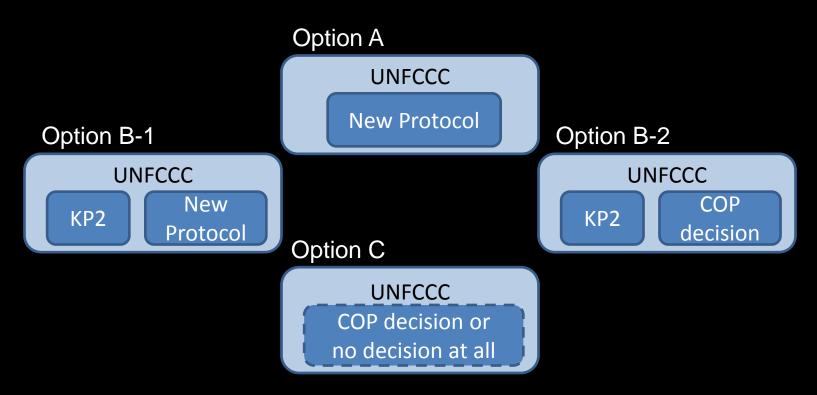
- 2<sup>nd</sup> official UNFCCC negotiation meeting in 2011.
- Expected for improve the negotiation from Bangkok's AWG session and materialize the "Cancun Agreement" and negotiate for further agreement.

# Outcome of Bonn SB/AWG

- Didn't improve the situation from Bangkok AWG
  - Annex I and NAI Parties remain divided over the negotiation process
  - Bolivia strongly opposed the adoption of agenda (Bolivia taking an opposite standpoint for Cancun Agreement)
  - Substantive negotiation was stuck
  - Took time for unify the negotiation position among negotiation bloc (especially "G77 and China")

→ AWG-LCA14/KP16 will continue to October session, "Part3" at Panama

# **Options for future framework**



- Option A: Ideal but difficult and takes time
- Option B-1: Not easy and take time
- Option B-2: Internationality and legality are issues
- Option C: Possibility to become a chaotic situation

28

#### Options for Internationally-binding regime

- A regime of "Internationally-bindedness for all major economies with the Common But Differentiated Responsibility Principle" such as:
  - Developed countries: numerical target based on the Cancun Agreement with some consequences of non-compliance
  - Emerging countries: numerical <u>international</u> target based on the Cancun Agreements <u>without any</u> <u>consequences of non-compliance</u> (Unilateral Declaration)

- Based on the decision at COP16, invited Parties to submit their views on matters relating to the establishment of one or more market-based mechanisms to enhance the cost-effectiveness of, and to promote, mitigation actions
- The following 19 Parties submitted
  - Australia, Bangladesh, Bolivia, China, Colombia, Ecuador, AOSIS, EU, Japan, New Zealand, Norway, Papua New Guinea, Peru, Republic of Korea, Saudi Arabia, Singapore, Switzerland, Turkey and Venezuela

#### • EU

- Voluntary participation supported by the promotion of fair and equitable access for all Parties
- Complementing other means of support for nationally appropriate mitigation actions by developing county Parties
- Stimulating mitigation action across broad segments of the economy
- Safeguarding environmental integrity
- Ensuring a net decrease and/or avoidance of global greenhouse gas emissions

31

(Full documents are downloadable from http://unfccc.int/resource/docs/2011/awglca14/eng/misc02.pdf)

- Japan
  - Efficient and facilitative nature
  - Technology neutrality
  - Ensuring flexibility to accommodate each country's circumstances and ensuring transparency
  - Ensuring the environmental integrity
  - Synergy with the existing market-based mechanisms

#### • China

- The possible market-based mechanism to be established under the Convention aims to help developed country Parties
- The precondition for the establishment of market-based mechanism is that the developed country Parties that are not Parties to the Protocol undertake internationally legally binding economy-wide emission reduction commitments after 2012
- Emission reduction commitments of the developed country Parties shall be achieved mainly through domestic efforts and the marketbased mechanism could only play a complementary role
- All developing country Parties should have equal access to the possible market-based mechanism to be established, and necessary capacity building activities should be provided
- The utilization of any market-based mechanisms to be established under the Convention should not lead to double counting

33

(Full documents are downloadable from http://unfccc.int/resource/docs/2011/awglca14/eng/misc02.pdf)

#### Bangladesh

- To allow supplementary of GHG emission reductions through market-based mechanisms up to maximum 20% of national commitments; the remaining 80% has to be reduced domestically
- To make future market-based mechanisms as free of distortions and more efficient, the experience of various market-based mechanisms under the existing Kyoto and other emissions trading schemes need to be critically reviewed by a committee under the SBI
- Existing CDM functioning needs to be reformed and expanded;
  - Moving beyond project-based CDM and upscale programmatic CDM that will provide credits for a number of small-scale projects distributed over time and space
  - Introducing Policy-based CDM: Parties may receive credits from implementing policies and measures that reduce emissions and are additional to base-levels
- The distribution of existing registered CDM projects are highly skewed in favor of a very few countries. To address such spatial inequity, measures should be taken for capacity-building in LDCs and SIDS for them to effectively take part in CDM activities with a certain quota being kept for such countries

34

# Japan's Initiative on CC issues

- Adaptation
  - Global and Regional Adaptation Network
  - Support to UNFCCC Workshops
- Mitigation
  - <u>Bilateral Offset Credit Mechanism (BOCM)</u>
  - Co-benefit Approach
  - Workshop on Greenhouse Gas Inventories in Asia (WGIA)

#### Japan's Bilateral Offset Credit Mechanism (BOCM)

- Background
  - Current CDM should be improved
    - lengthy procedures
    - limited project types
    - too costly
  - CDM will remain important
    - Rich experiences of GHG reduction project
    - Established many rules and procedures by CDM-EB

 $\rightarrow$  Japanese gov't will try to utilize both CDM and BOCM (not only BOCM)

### Japan's Bilateral Offset Credit Mechanism (BOCM)

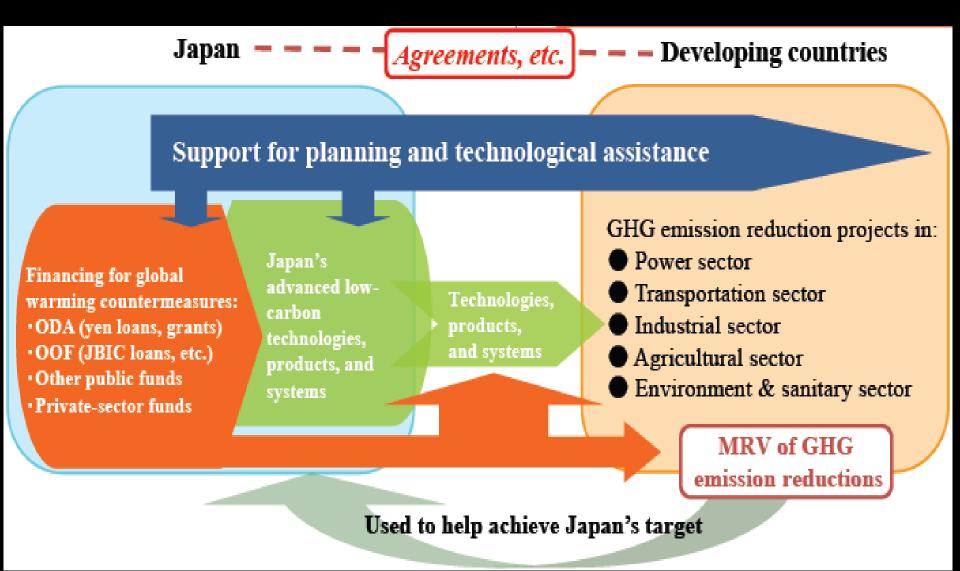
[Requirement]

- Be consistent with post 2012 framework
  - GHG reductions with environmental integrity and quantifiable evaluation
  - Able to conduct MRV under international standards

[Aim]

 Establish 'win-win' relations between developed and developing countries through promotion of technology transfer and emission credits

### Image of a Bilateral Offset Credit Mechanism (BOCM)

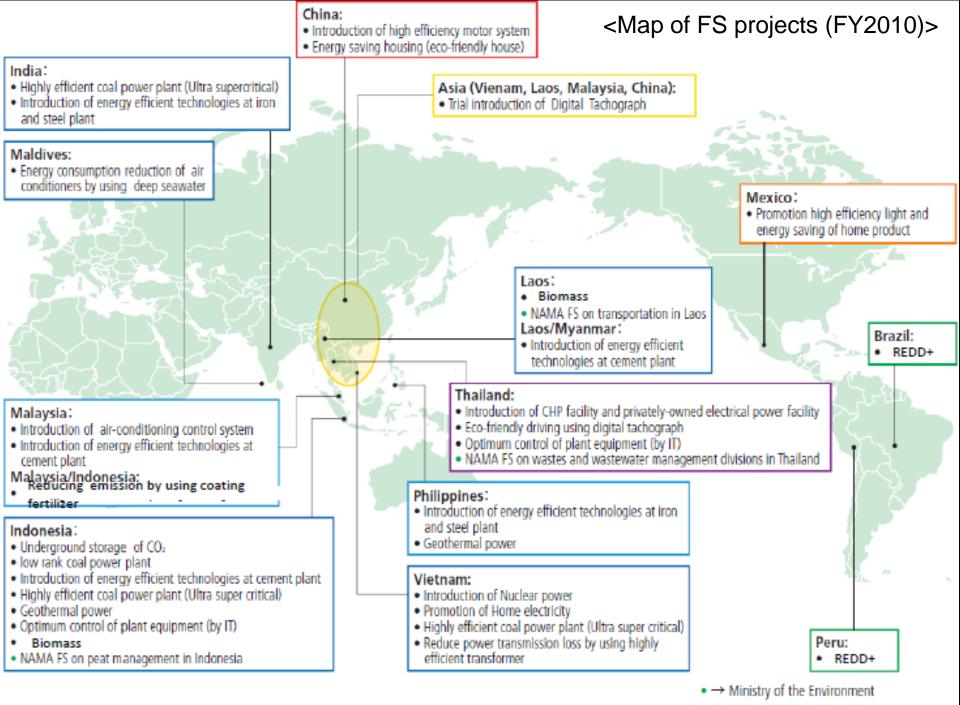


## **Progress in International Negotiations**

- Cancun Agreements (COP16 Decisions)
- ✓ It was agreed that the Conference of the Parties (COP) "decides to consider the establishment, at its seventeenth session, <u>one or more market-based</u> <u>mechanisms</u>".
- High-Level Agreements on Bilateral Cooperation
- ✓ India: "The two Prime Ministers reaffirmed the importance of strengthening bilateral discussions on climate change on various occasions, including <u>a possible</u> <u>establishment of a framework of comprehensive bilateral cooperation</u>."
- ✓ Vietnam: "The two sides agreed to task relevant agencies of the two countries to exchange views for the realization of these objectives\* including <u>the potential</u> <u>establishment of a bilateral offset credit mechanism</u>". (\*Making the environment and economy compatible, thereby addressing the climate change issues while achieving sustainable growth.)
- Multilateral Agreement
- ✓ Japan and Mekong region countries agreed to "promote the development of bilateral offset mechanisms"

# Feasibility Studies for Bilateral Offset Credit Mechanism (BOCM)

- Japanese gov't (METI and MOE) have started to fund feasibility studies since FY2010
- The studies are conducted by Japanese private companies in cooperation with organizations in developing countries with a view to exploring and designing possible joint GHG reduction projects and bilateral offset credit mechanism
- Total budget: 10mil USD (FY2010), 3bil USD (FY2011)
- Purpose:
  - To explore and design possible joint GHG reduction projects in such sectors as power, steel, cement, electric appliances
  - To develop appropriate measurement and monitoring methodologies of GHG and to estimate GHG emission reduction potential
  - To evaluate financial aspects of projects, including the use of offset credits generated from GHG reduction projects



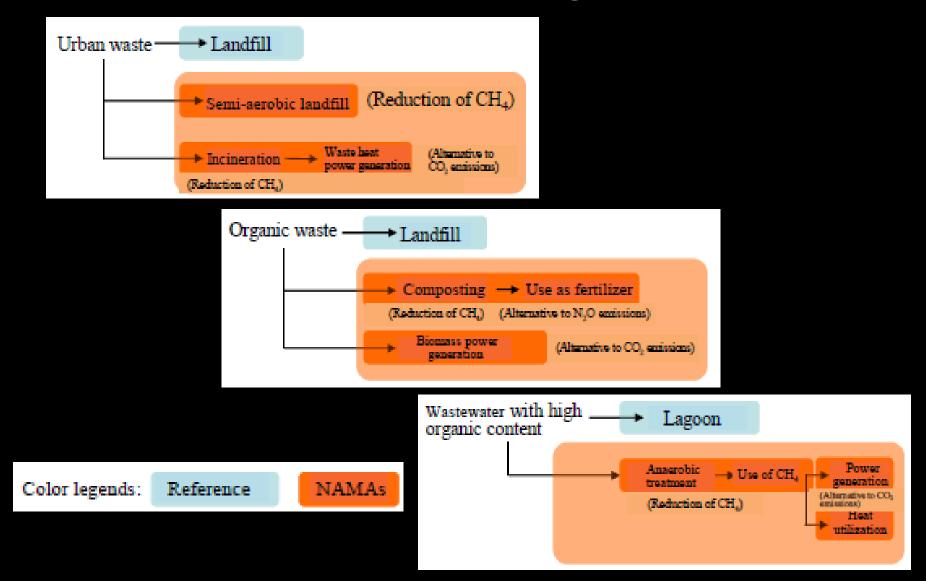
→ Ministry of Economy, Trade and Industry

# [NAMA-FS Case example]

### Waste and Wastewater Management in Thailand

- Actions
  - Introduce Japanese waste and wastewater management technologies to Thailand to help reduce GHG emission
    - Reduce methane gas emission from urban waste landfills by introducing a semiaerobic landfill system
    - Use composting technology to turn organic waste into fertilizer and avoid methane gas emissions
    - Collect methane gas from the anaerobic treatment of waste with high organic content, and use the gas and heat for power generation and other purposes as substitutes for fossil fuel
- Estimated emission reduction
  - 6.5 to 11.5 million tCO2 between 2011-2020
- Host country counterpart
  - Thailand Greenhouse Gas Management Organization (TGO)
  - Bangkok Metropolitan Administration (BMA)

## [NAMA-FS Case example] Waste and Wastewater Management in Thailand



# [NAMA-FS Case example] Transportation Management in Laos

- Actions
  - Identifying specific projects that are likely to reduce GHG emissions and estimating the amount of emission reductions with respect to the Urban Transport Master Plan (road networks, public transportation systems, and traffic management) in Vientiane
  - Master Plan outline
    - Reduce travel distance by improving road networks
    - Decreasing the number of vehicles by enhancing public transportation systems (BRT, LRT, etc.)
    - Implementing effective traffic management (parking restrictions, traffic volume control, etc.)
- Estimated emission reduction
  - Approx. 440,000tCO2 between 2012-2020
- Host country counterpart
  - Ministry of Public Works and Transport (MPWT)
  - Water Resources and Environment Administration (WREA)

# [NAMA-FS Case example] Transportation Management in Laos



Current status of traffic conditions in Laos

#### Public transportation systems in other country

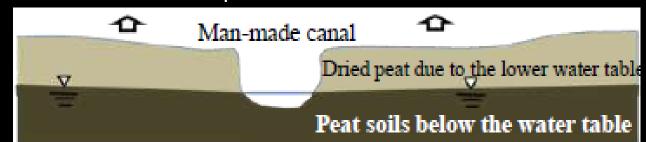


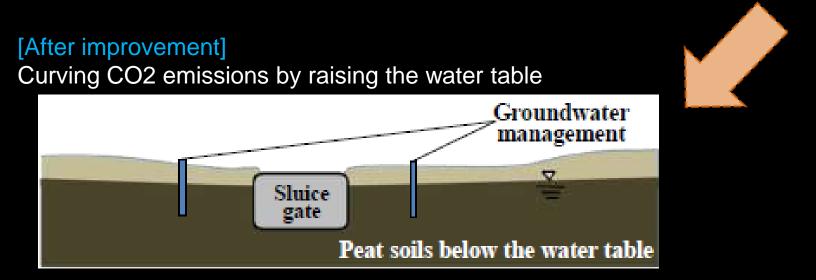
# [NAMA-FS Case example] Peatland Management in Indonesia

- Actions
  - Designating approx. 10,000ha of peatland in Jambi province on Sumatra Island, Indonesia, as the target area. This FS calls for building sluice gates (or utilizing existing ones) in the existing man-made canals thereby controlling and raising the ground water table to increase moisture content in peat soils. The construction of canals has caused the drying out of peat swamps, leading to an increase in CO2 emissions from aerobic biodegradation of dried peat soils. Thus, rewetting dried peat soils works to mitigate CO2 emissions by inhibiting biodegradation and preventing forest fires.
- Estimated emission reduction
  - 455,000tCO2 per year
- Host country counterpart
  - Ministry of Public Works (PU)
  - Provincial Government of Jambi
  - Jambi University

# [NAMA-FS Case example] Peatland Management in Indonesia

#### [Before improvement] CO2 emissions from peatland





Reducing CO2 emissions by raising the water table within peat soils

#### New Mechanisms Information Platform 新メカニズム情報ブラットフォーム

TEXT SIZE: Normal Large



New Mechanisms Information Platform was established by the Ministry of the Environment, Japan (MOEJ) for Reviding of Ollowing information chanisms to address climate change. Such information includes proposed bilateral mechanisms, NAMAs, REDD, and other key areas. Also, the information platform accepts inquiries into Japan's relevant policies and support programmes, as well ways to start with collaborative Japanese policies and programmes on New

Market-based Mechanisms (incl. Feasibility Study

• 22 Juppogrammes)er registration started.

• 31 May etc. Some documents have been updated.

more

E-mail Newsletter

#### http://www.mmechanisms.org/e/index.html

New Mechanisms Information Platform E-mail Newsletter (new)

# Thank you for your attention

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New Mechanisms Information Platform URL:

http://www.mmechanisms.org/e/index.html