



Indonesia REDD+ Prospective and Implementation: An UPDATE

By:

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By Government of Japan: MOEJ, JICA, FFPRI
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The JCM projects current development

The JCM Project Progress

- 96 Feasibility Study have been done from 2010-2015
- 3 projects are registered as JCM projects.
- 18 JCM projects are now in our pipeline.
- 19 projects on energy efficiency and 2 projects on renewable energy (registered and pipeline).
- All projects are being developed with the cooperation between Indonesia and Japan participants.

Until now we don't have any REDD+ project under the JCM. This will be a challenge for the JCM implementation in Indonesia on how to develop the REDD+ project!

Field of Activity	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total
LULUCF and REDD-plus	1	6	7	4	7	25
Renewable Energy	1	7	8	4	1	21
Energy Efficiency	3	5	6	5	9	28
Agriculture	1	1	1	0		3
Transportation	0	2	2	1		5
Waste Handling and Disposal	1	0	0	2	1	4
Fugitive emissions	0	0	0	1	0	1
Carbon Capture and Storage and SNG	1	2	2	0	1	6
Low-Carbon City	0	0	0	1	2	3
Total FS	8	23	26	18	21	96

Necessary documents for JCM

Overall

- ✓ Rules of Implementation
- ✓ Project Cycle Procedure
- ✓ Glossary of Terms
- ✓ Guidelines for Designation as Third Party Entity (TPE) Guidelines (in developing phase)

Joint Committee

- ✓ Rules of Procedures for the Joint Committee

Project procedures

Developing a PDD

- ✓ Guidelines for Developing PDD and Monitoring Report

Validation and Verification

- ✓ Guidelines for Validation and Verification

8 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

2 proposed methodologies

1. Replacement of conventional burners with regenerative burners for aluminum holding furnaces
2. Introducing double-bundle modular electric heat pumps to a new building

2 proposed guidelines

1. Guidelines for the sustainable development implementation

2. Guidelines for developing proposed methodology on REDD+



REDD+ under JCM and its methodologies

New update

Presidential Decree 16/2015: Merger of Ministry of Environment & Forestry (including Nat Council of CC, REDD+ Agency)

Ministerial Decree P.18/2015 & SK.145/2015

BAPPENAS
NAT DEV PLANNING

MINISTRY OF
FINANCE

MINISTRY OF
FOREIGN AFFAIR

COORDINATING
MINISTRIES

MINISTRY OF
ENV & FORESTRY
PRES DECREE 16/2015

President's
Special Envoy
of CC

CC MoEF:
Nat Adv Board
DG of CC;

CC Implementation by Ministries including research, Science & Technology

Ministries, Local Gov, CSO, NGO, private

Integrating REDD+ into a green economy transition (Watson et al.; ODI Report 2013)



Key
messages

...the full potential of REDD+ – reducing emissions from deforestation and forest degradation, conservation of forest carbon stocks, sustainable management of forests, and enhancement of forest carbon stocks – **is rarely elaborated**(JCM INITIATED)

- Clear links exist between REDD+ and green economy objectives, both of which call for a change in the business-as-usual economic development in order to slow the loss of natural capital;
- Although an aggregate value is elusive, the multiple benefits of REDD+ provide a clear rationale for the integration of REDD+ in a green economy transition. This includes the enhanced provision of ecosystem services, in addition to climate change mitigation, and the potential to deliver various social benefits;
- Although challenges remain, integrating REDD+ within a green economy transition could maximise synergies in policy and planning, as well as reduce the transaction and implementation costs of pursuing each independently.

REDD +

Match & significant support for



<http://www.businessclimatesummit.com/wp-content/uploads/2015/05/Business-Climate-Summit-Press-release.pdf>



Paris 20–21 May
2015

**PRIVATE SECTOR
MOVE**

FORWARD..

**Working
together to
build a better
economy**

— TS #3: FOOD, FOREST AND AGRICULTURE

Rapid global population growth, urbanisation, rising incomes and the aspirations of a booming middle class are putting enormous pressure on land and water resources used by agriculture and forests. In addition, how can we ask this sector to support the shift from fossil fuels to biomass without compromising biodiversity?

Speakers:

Yetti Rusli**, Senior Advisor on Environment and Climate Change, Ministry of Forestry and Environment, Indonesia

Bruno Duval**, President, Savco

Stéphane Frappat**, CEO, Sodrugestvo

Anil Jain**, Managing Director & CEO, Jain Irrigation

Carlos Klink**, National Secretary for Climate Change and Environmental Quality, Brazil

Paulo Roberto de Souza**, CEO, Copersucar

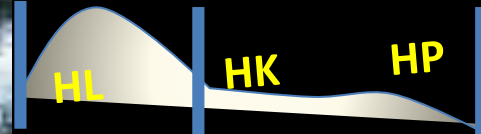
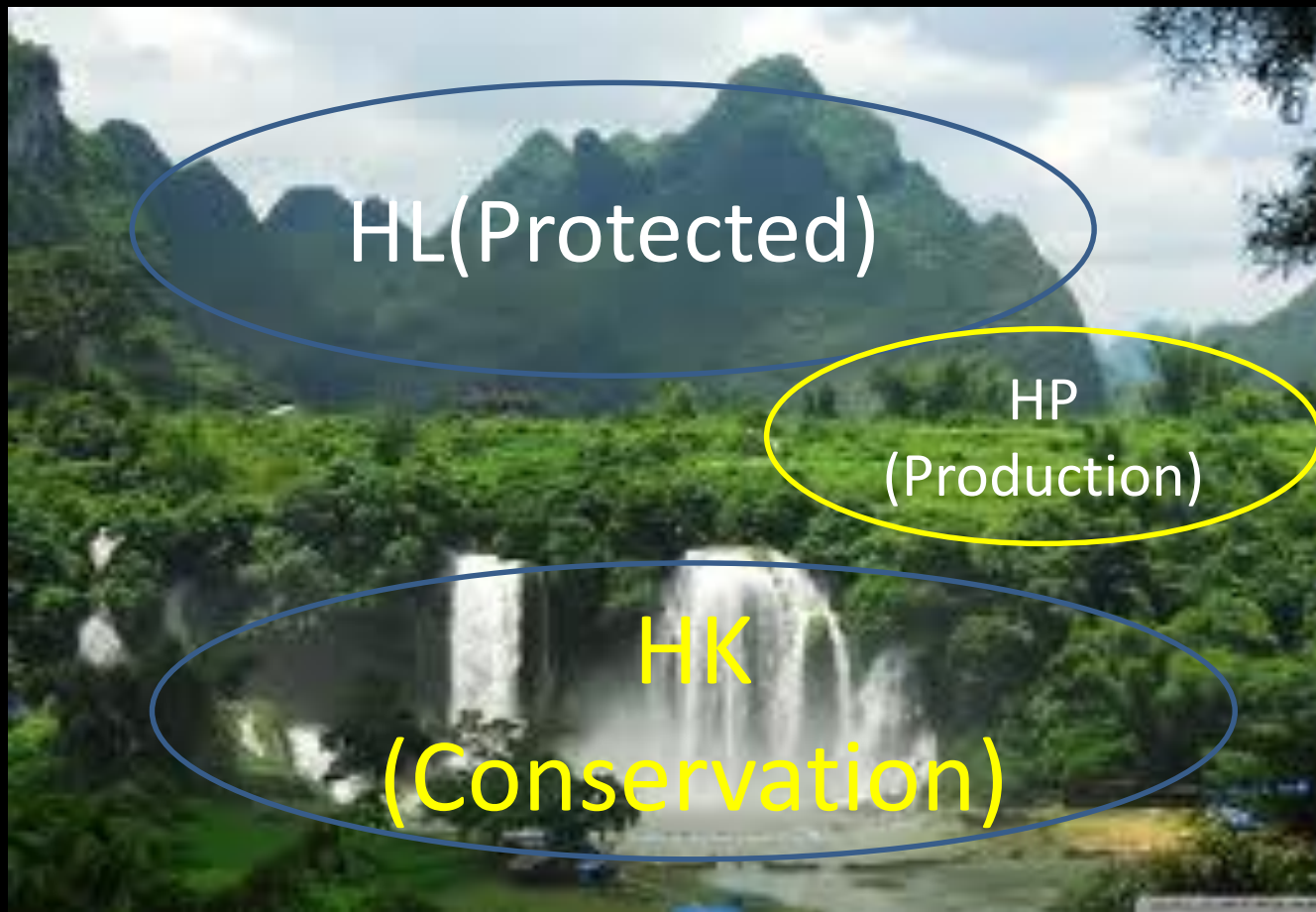
Moderator:

David Nussbaum**, CEO, WWF-UK & Chair WWF Global Climate & Energy Initiative

AWARE OF DIFFERENCES (GAP AT GLOBAL) REDD+ METHODOLOGY & RESULTS

- Forest controversial issue since **Kyoto Protocol**
- AR CDM decision 14/CP.10 (IPCC Guide Line 2006 & update): implementation is not easy; Land base & additionality; create small value
- Bali Action Plan, 1.(b).(iii) accepting full functions of forests → **REDD+ → available choice program & activities for Japanese private**
 - **REDD, Conservation, Sustainable Forest management, and Enhancing forest carbon stocks**
- Understanding the role of forests in absorbing CO₂ & holding C Stock, & produce green products are new exercises of REDD+

The Choices of Private Partner's Program & Activities: Tropical Forest Landscape, Forest Function/Forest-land Classification



Indonesia's Forests (tropical region, 11 hours-365 days)

Forest Land Use System based on Forests Function



Conservation
Forests
21.9 m ha.

Protected
Forests
29,9 m ha

Production
Forests
71.9 m ha

Community
Forests
(APL=63.9)

IND
Total Land
187.9 m ha



Ecosystem/
Environment

Services/
Commodity

Renewable Energy
(Wood pellet, Methanol)

**VALUE RELATED TO CLIMATE CHANGE (CO₂/C CYCLE),
Green Renewable Products (biomass – energy, fiber)**

On Going work of Joint Committee

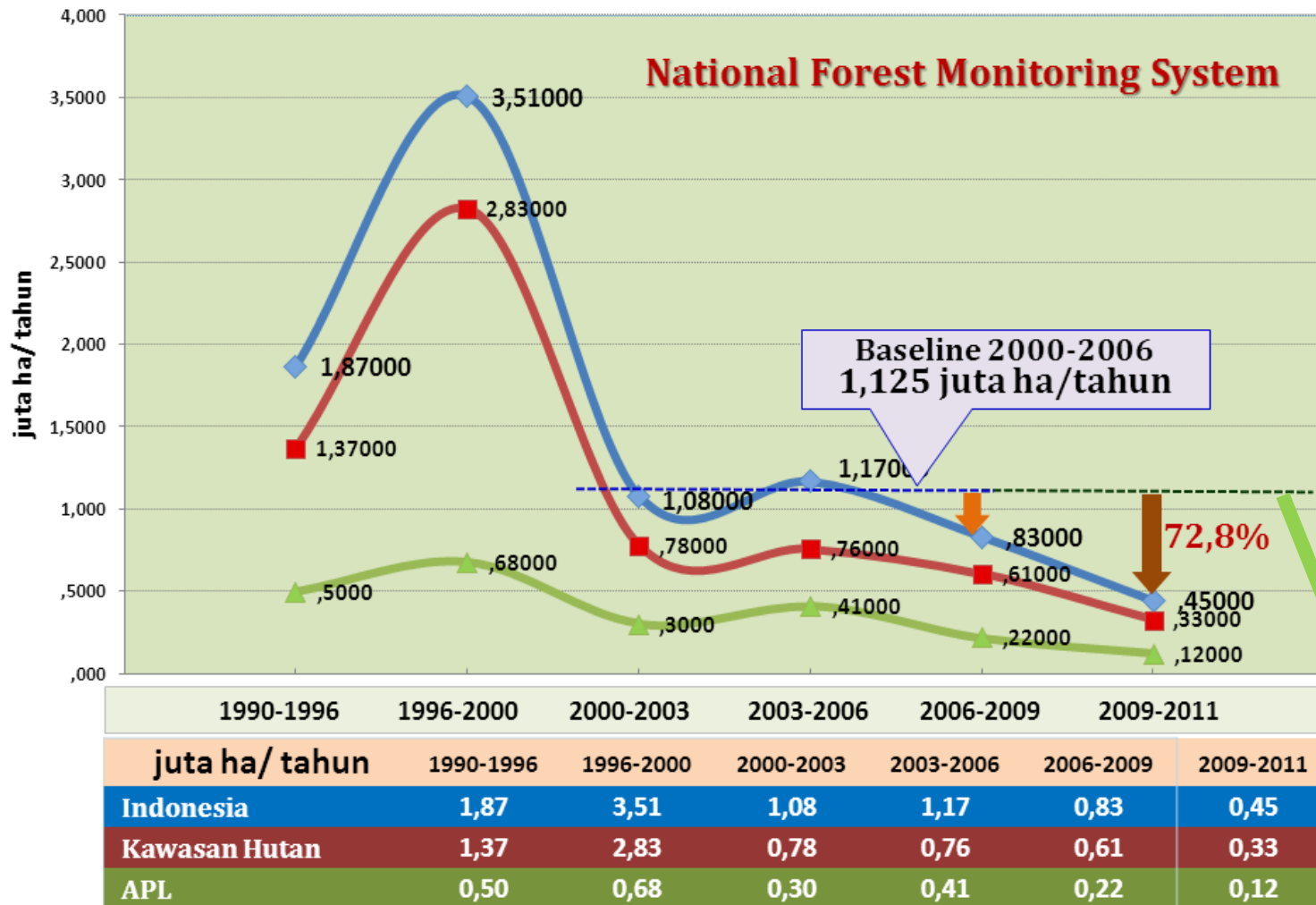
Joint Crediting Mechanism Guidelines for Developing
Proposed Methodology for REDD+ draft of 24 March 2015,
under discussion?:

- JCM Guidelines draft & Existing International Scheme
- Risk of Reversal
- Discount factor

Additional notes (Bali Action Plan vs KP / IPCC GL principles):

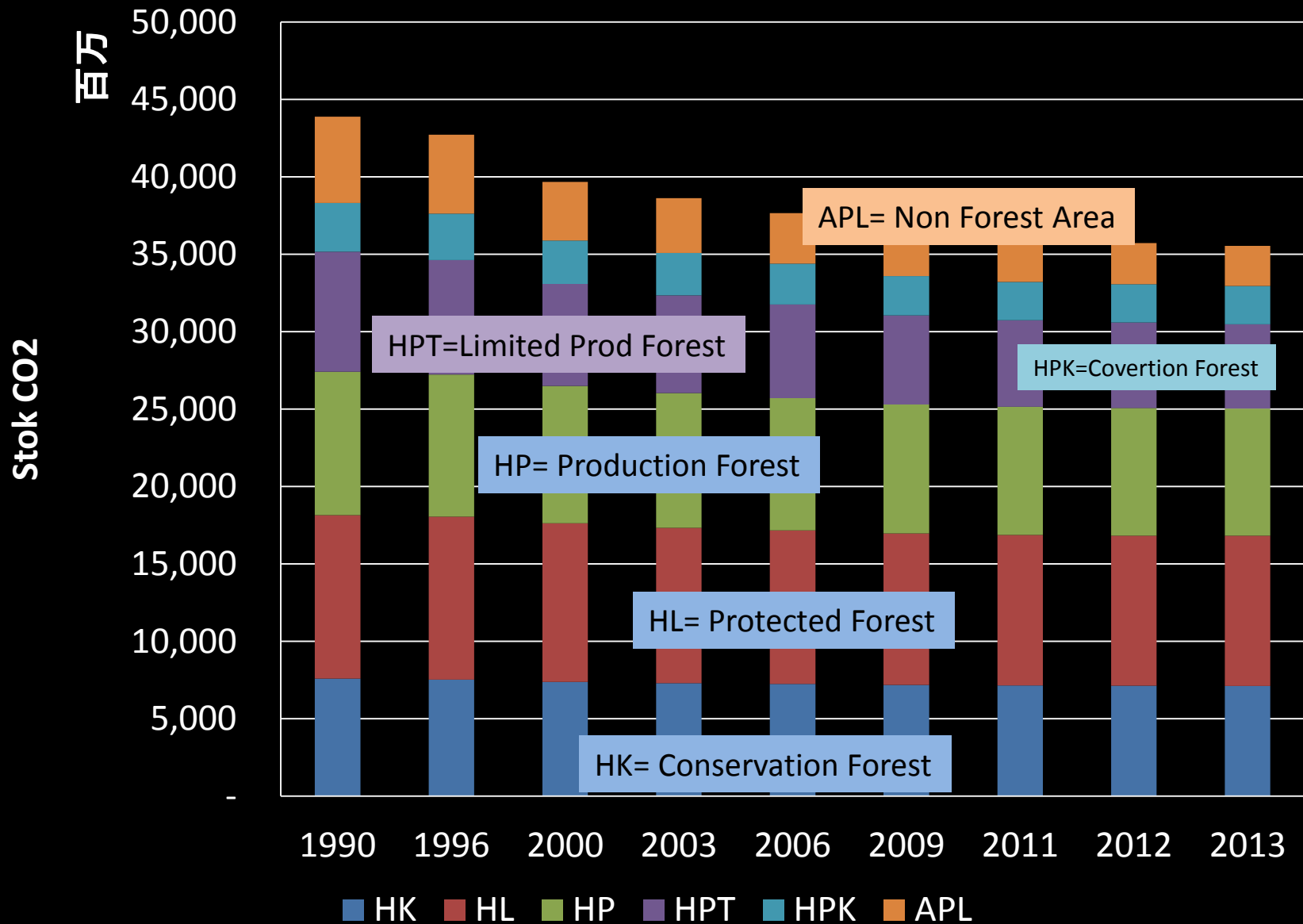
- Corresponding REDD+ JCM GL & value of Carbon Stock at Conservation & Protected Forest
- Corresponding REDD+ JCM GL & Harvested Wood Product (pool of Carbon) under SMF or Enhance FCS and promote activities producing green products and related technology.

DEFORESTATION RATE



FREL: Ministerial Decree SK.633 July 21, 2014 for domestic exercise (will be updated for the New National Plan RPJM 2015-2019)

CO2 Stock of Each Forest Function



Expectation from Early Implementation

- Scale up best practices; Mobilize technology & Investment and market for best practices available on Mitigation and Adaptation REDD+ based
- Consultation b/w new comers to land based & forestry business with Japanese forest researchers / Univ, Private Forestry Company (not to reinventing available matters)

QUESTION:

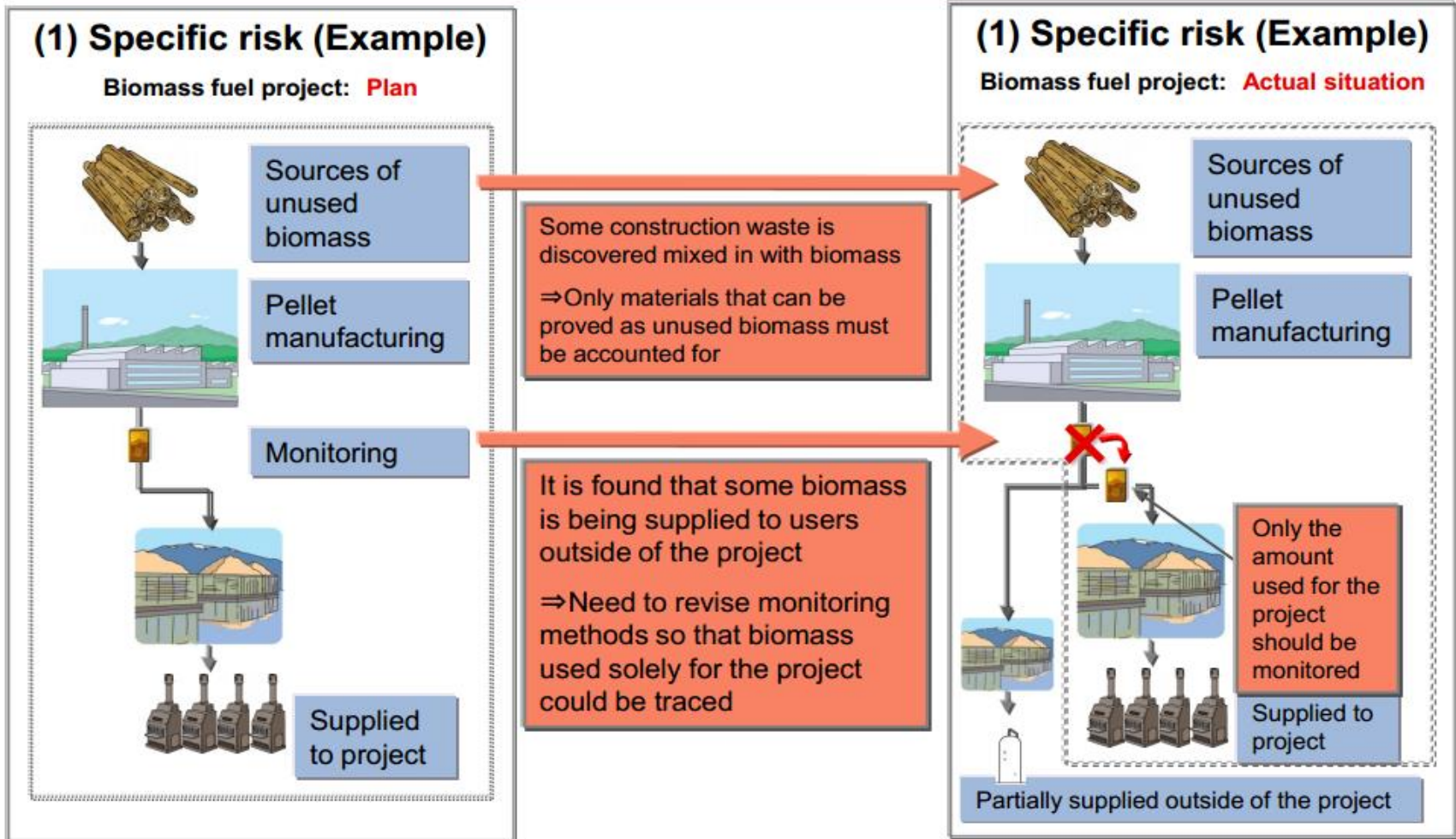
- Benefit gain by private members (after project period):
 - Carbon offset ???
 - New Green Product Market ???

J-VER, Outline of the MRV for Offset Credit (J-VER) scheme, Nov 2011:

http://j-ver.go.jp/document/e/J-VER_MRV20111115.pdf

- ◆ Credits are issued for the period from 2008 to 2012.
- ◆ Certified credit amount is about 140,000t-CO₂.
- ◆ 80% of total credits come from forestry projects.
- ◆ 160 project are registered as of October 2011.

Validation and Verification Plan Formulation





Thank you yetti.rusli@gmail.com

