

## EAST ASIA BIOMASS TOWN CONCEPT PROMOTION PROJECT

# East Asia Biomass Town Workshop

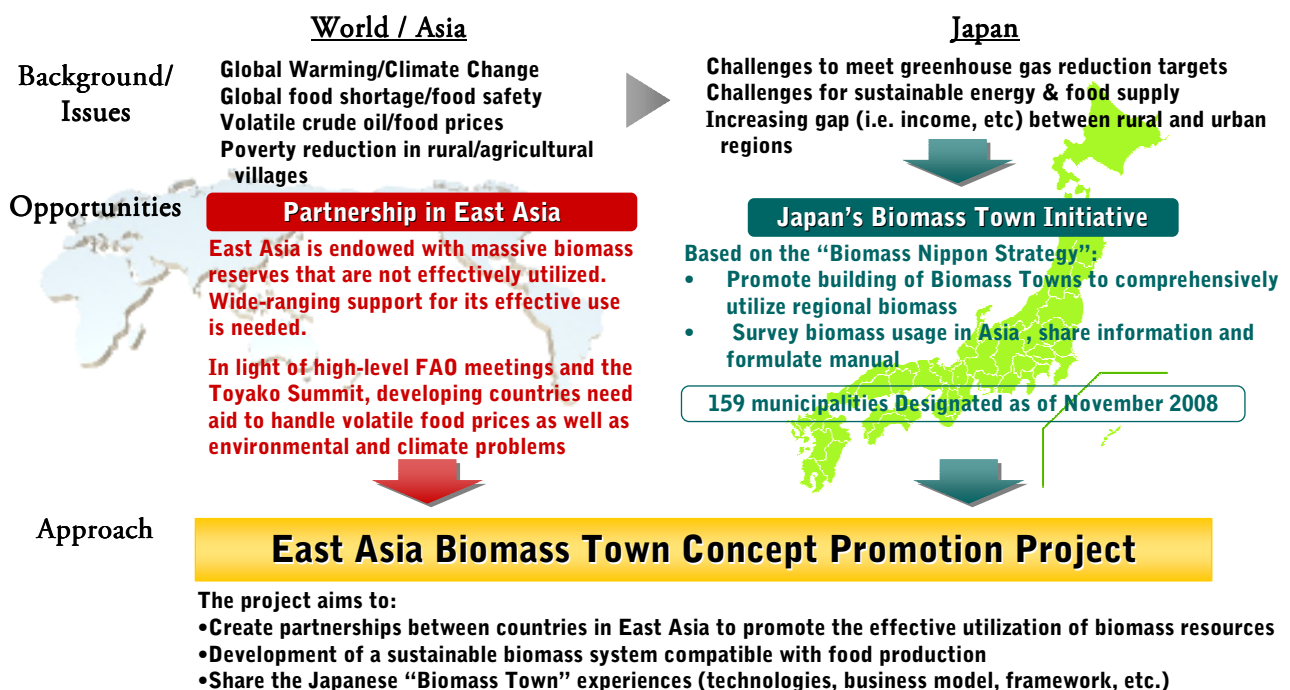
Tokyo, Japan, 23 February – 3 March 2009

## WORKSHOP



## Objectives

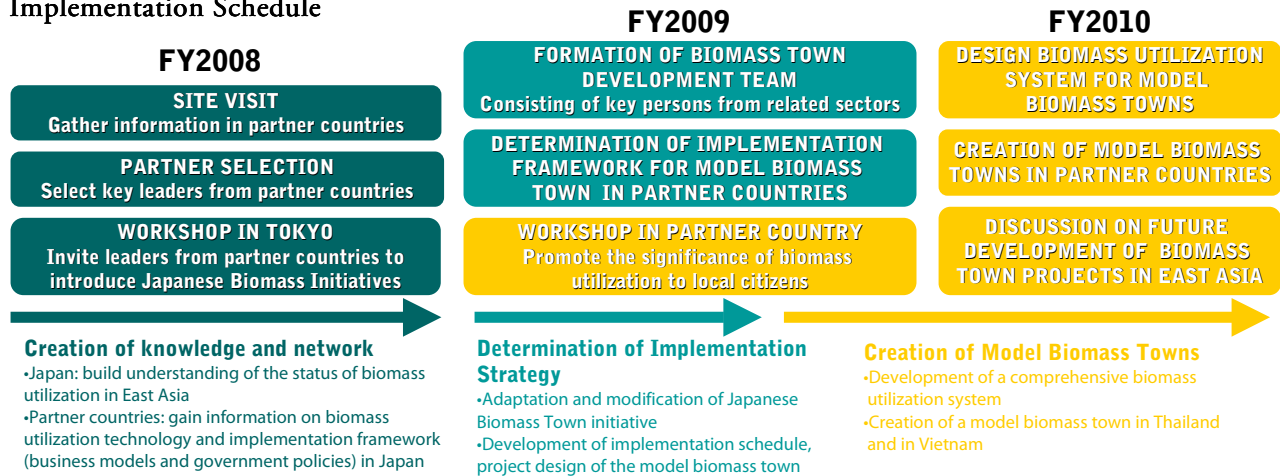
### Project Background



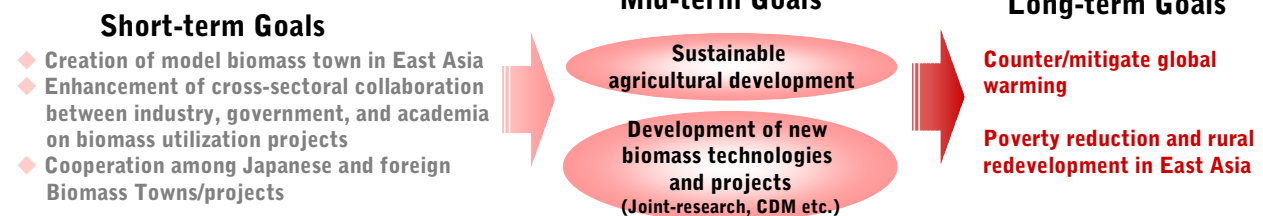
# Objectives

## Project Implementation Schedule & Expected Outcome

### Implementation Schedule

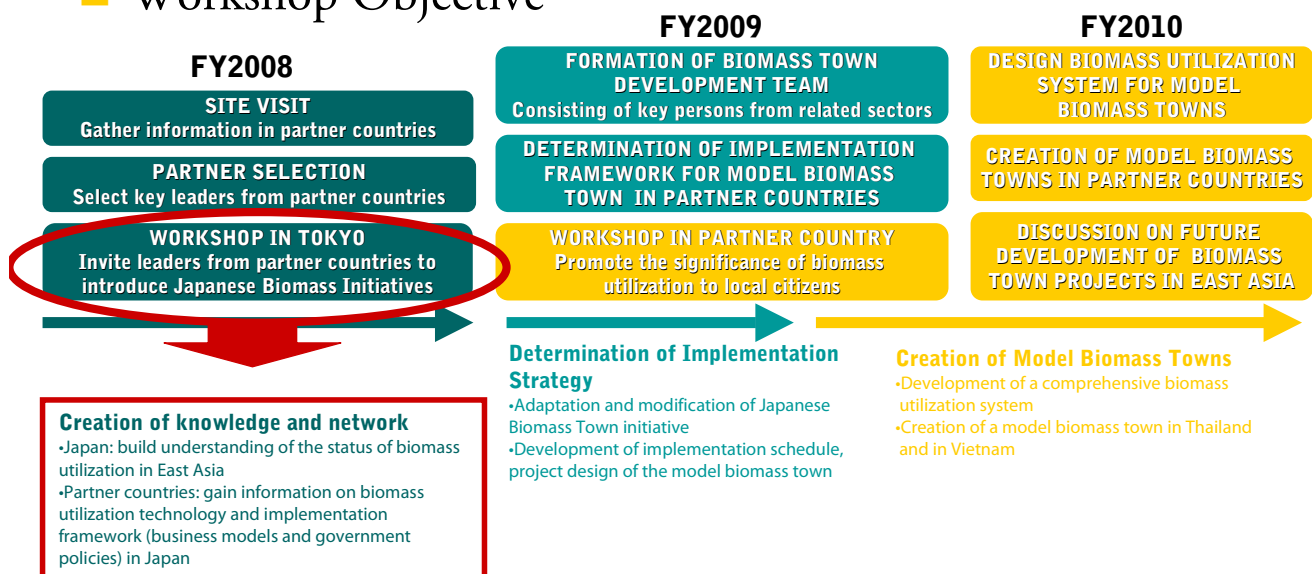


### Expected Outcome



# Objectives

## Workshop Objective



# Expected Outcome

- An understanding of the background and objectives of Japanese Biomass Town Strategy by participants through seminars [Seminar 1]
- An understanding of the basic principles, implementation framework, specific case studies of Japanese Biomass Towns by participants through site visits [Site Visit 1 - 8]
- An establishment of a network of Biomass experts within and between the participating countries and Japan [Presentation 1, Site Visits, Seminar 1-2, Discussion]
- Development of the knowledge and network that are necessary for participants to create a “Biomass Town Implementation Plan,” which is to be modified version of the Japanese Biomass Town Implementation Plan to meet local conditions and needs, within the next two to three years [Seminar 1, Seminar 2, Discussion]
- A Final Presentation identifying potential approaches to formulate a model biomass town in Thailand and Vietnam for the next two to three years [Presentation 2]

# Structure

Thailand/Vietnam ⇒ Japan

Japan ⇒ Thailand/Vietnam

Thailand/Vietnam ⇔ Japan

Seminar 1: Introduction to basic biomass town concepts in Japan

Presentation 1: Overview of biomass utilization efforts in Thailand & Vietnam

## Site Visits

1. Asahi Beer
2. Foodo Mura
3. Yamada Biomass Plant
4. Bright Pig Co. Ltd.
5. Motegi-machi “Midorikan”
6. Michino-eki Motegi
7. Yamaga Biomass Center
8. Ooki-machi “Kururun”

Seminar 2: Introduction of methods of establishing biomass towns in Japan

Discussion: Future direction & strategy for promoting biomass utilization and establishing a model biomass town in Thailand and Vietnam

Presentation 2: Final Presentation (Summary of workshop outcome)

# Structure

Thailand/Vietnam ⇒ Japan

Japan ⇒ Thailand/Vietnam

Thailand/Vietnam ⇔ Japan

**An understanding of the background and objectives** of Japanese Biomass Town Strategy by participants through seminars

basic biomass town concepts in Japan

Presentation 1: Overview of biomass utilization efforts in Thailand & Vietnam

Site Visits

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2. Asahi Biomass Center
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**An understanding of the basic principles, implementation framework, specific case studies of Japanese Biomass Towns** by participants through site visits

Seminar 2: Introduction of methods of establishing biomass towns in Japan

**An establishment of a network of Biomass experts** within and between the participating countries and Japan

Discussion: Future direction & strategy for promoting biomass utilization and establishing a model biomass town in Thailand and Vietnam

**Development of the knowledge and network that are necessary for participants to create a "Biomass Town Implementation Plan,"** which is to be modified version of the Japanese Biomass Town Implementation Plan to meet local conditions and needs, within the next two to three years

Presentation 2: Final Presentation (Summary of the seminar and discussion)

**A Final Presentation identifying potential approaches to formulate a model biomass town** in Thailand and Vietnam for the next two to three years

To FY2009

# Contents

No.001

## Seminars & Discussions

- Seminar 1: Introduction to basic biomass town concepts in Japan

Why and how are biomass utilization projects promoted through the Biomass Town Initiative in Japan?

What are the similarities and differences between the situation of biomass utilization in Japan and in Thailand/Vietnam?

- Seminar 2: Introduction of methods of establishing biomass towns in Japan

What are the implementation methods (framework, stakeholders, related policies, project development processes, etc) of Japanese biomass towns?

- Discussion: Future direction & strategy for promoting biomass utilization and establishing a model biomass town in Thailand and Vietnam

How can the Japanese biomass town method be modified/improved to be applied in Thailand/Vietnam?

What are the benefits/barriers to establishing a model-biomass town in Thailand/Vietnam?

## ■ Site Visits

- Site Visit 1 – 8: Introduction of various projects related to the promotion of biomass utilization through the Biomass Town Initiative in Japan

What are the technologies, business models, implementation framework, and benefits at each project site?

What are the main reason/component for successful project implementation?

What features in the projects can be beneficial/ adaptable for biomass utilization projects in Thailand/Vietnam?

## ■ Major Points to be observed and confirmed to the selected 8 Sites

### Site 1 Asahi Breweries

- Biomass(waste) utilization, especially waste water treatment to reduce the environmental loads.
- Biomass(waste) utilization of the Partner firm in Thailand
- Relation between their bioethanol project and sustainable agriculture development

### Site 2 Food-mura (restaurant)

- Facility to offer information on promoting “local production for local consumption”. Selling local vegetables using locally made compost
- Facility which attract tourists contributes local economic development

### Site 3 Yamada Biomass Plant

Experimental station of cascade and total utilization of local biomass:  
biogas, carbonization, biodiesel, compost

### Site 4 Bright Pig Co Ltd(pig farming company)

By using food residue discharging from food factories, supermarkets, convenience stores, the company reduced feedstuff cost while contributing food recycling.

## Site 5 Motegi-machi Recycle Center(depopulation town)

Compost center which consider the system to spend money to the local area by making and using compost whose raw materials are kitchen garbage, manure, and fallen leaves in Motegi machi.

## Site 6 Michino-eki (located at motegi-machi)

- Information center for local people to enhance “local production for local consumption” , esp. vegetable made from compost of motegi-machi recycle center as well as interface center between local people and tourist.

## Site 7 Yamaga Biomass Plant

Biogas center which successfully provide both liquid fertilizer and solid fertilizer discharged from the center as byproducts of biogas.

## Site 8 Ooki-machi Recycling Center

Biogas and BDF plant center equipped with the function of information and training center for local and visitors toward sustainable agriculture.

## ■ Presentations

- Presentation 1: Overview of biomass utilization efforts in Thailand & Vietnam

How is “Biomass” defined in Thailand/Vietnam? (categories – i.e. agricultural/municipal waste/etc., types, and framework)

What are the relevant policies that may promote biomass utilization in your country?

What are some examples of prominent biomass utilization projects in your country?

What is the implementation framework of prominent biomass projects and who are the stakeholders involved?

- Presentation 2: Final Presentation

What are the useful technologies, business models, and implementation framework, gained through this workshop that can be applied to biomass utilization in Thailand/Vietnam?

What are some actions that can be taken to utilize the information & network gained through this workshop to further promote biomass utilization efforts in Thailand/Vietnam?

What are potential barriers to formulating a model-biomass project in the next two years?  
How can Japan cooperate/contribute to overcome the barriers and create a model-biomass project in Thailand/Vietnam?