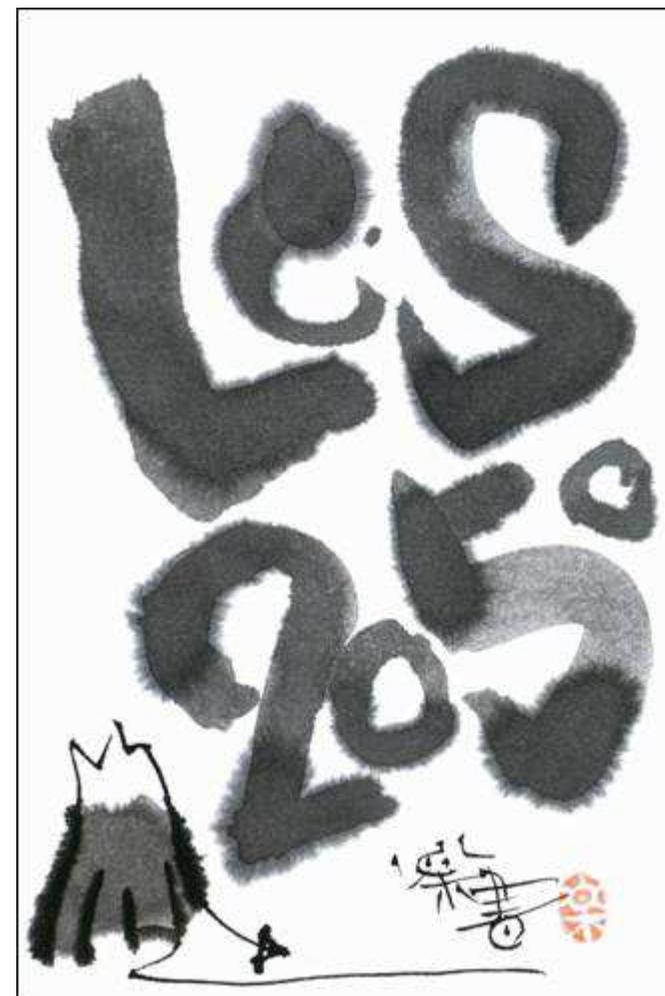


Introduction of Japan's initiatives and the NAMA Guidebook

1. If we cannot go to LCS,...
2. LCS offers higher QOL with less energy demand and lower-carbon energy supply
3. LCS needs good design, early action, and innovations



Designed by Hajime Sakai

Junichi FUJINO (fuji@nies.go.jp)

NIES (National Institute for Environmental Studies), Japan

“Guidebook on NAMA-based experiences in Asia and the World”

Japan Pavilion Side Event at the COP19 in Warsaw, Poland

15th Nov 2013

Net Global Reduction for Sustainable Development

National

Sector

Regional

Program

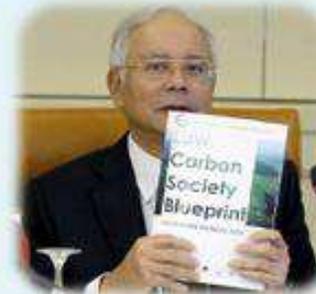
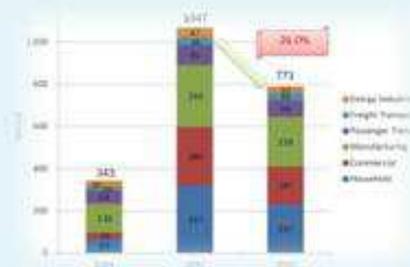
Activity

etc.

NAMAs



MRV



Activity	Baseline	Target	Actual
Energy	100	80	80
Transport	50	40	40
Manufacturing	80	60	60
Commercial	10	10	10
Residential	3	3	3
Total	343	257	257

Lessons from field experiences

Developing and implementing NAMAs / MRV based on Guidebooks

Lessons from field experiences

NAMAs and MRV Guidebooks

**Object of
MRV**

GHG emissions



UNFCCC Act.12
Inventories



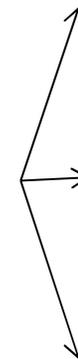
National
level

C40 cities



Sub-national
level

GHG protocol



Corporation
level

Project
level

Boundary

Originally designed
by Dr. Tamura, IGES

**Object of
MRV**

GHG emissions

GHG emissions
reductions

BaU, Projections



UNFCCC Act.12
Inventories

National
level

C40 cities

Sub-national
level

GHG protocol

Corporation
level

Project
level

Policy level

National
level

Sub-national
level

Corporation
level

Project
level

KP Act.12



WRI Policy
Accounting



EU ETS
JVETS



CDM
J-VER
JCM



Boundary

Contents 1/4

Chapter 1: Background

Motivation to participate in the writing and expected contribution to the Guidebook.

Basic structure and characteristics of the Guidebook (bottom-up or top-down approach, experiences in Asia).

Chapter 2: Basic elements in relation to NAMAs

(1) Linkage between sustainable development and low-carbon development plans of developing countries

Introduction to NAMAs as an opportunity to implement low-carbon development. Introduction of finance and technology, as well as opportunity to have co-benefits through economic and social development.

(2) Elements determined through UNFCCC (COP) decisions

Listing of minimum requirements by analyzing each COP's decision. (Inclusion of MRV, existence of support options, aim of deviation from BAU in 2020, inclusion of indexes and quantitative goals by reporting through BURs, desirable link with LCDS, etc.)

Classification of NAMAs

(3) Some aspects in the introduction of NAMAs

Existence of 1) technology aspects, 2) mainstreaming aspects, 3) organizational aspects in relation to NAMA decisions. (Depiction through a graph)

(4) Financial options

Introduction of varied financial schemes that can be used with NAMAs. Specially the financial and technical scheme of JCM.

Financial scheme access

Contents 2/4

Chapter 3: Approach of NAMA Decisions

(1) Top-down approach

Illustration of GHG emissions trend forecasting and quantification of emission reduction potential, as well as methods to elaborate scenarios used by the AIM model.

(2) Bottom-up approach

Illustration of determination of BAU and NAMA scenarios, specification of technology options, used in a bottom-up approach used in OECC's capacity building activities.

(3) MRV of Policy-based NAMAs

Relation between NAMAs and MRV will be explained through the Japanese case (Kyoto Protocol Target Achievement Plan)

Contents 3/4

Chapter 4: Experiences of NAMA development in Asia and the world

- (1) Scenario development (AIM) in the Asian region
Summary and experiences of scenario determination in the Asia region
- (2) AIM initiatives in Iskandar, Malaysia
Calculation used through AIM in Iskandar, Malaysia
- (3) Energy supply in Mongolia (OECC)
Energy supply sector in Mongolia, establishment of a National Committee, sample of NAMA Implementation Plan
- (4) Waste sector in Vietnam (OECC)
Waste sector in Vietnam, establishment of a National Committee, sample of NAMA Implementation Plan
- (5) Agriculture sector in Cambodia (OECC)
Agricultural sector in Cambodia (National Biodigester Programme), establishment of a National Committee, sample of NAMA Implementation Plan
- (6) Transport sector in Lao PDR (OECC)
Transport sector in Lao PDR (EVs), establishment of a National Committee, sample of NAMA Implementation Plan
- (7) Transport sector in Latin America (WRI/Embarq)

Contents 4/4

Chapter 5: Facts obtained from analysis, future prospects (under revision)

Conclusions

Summary of donor's activities

Description of specific policies

Chapter 6: List of References

**National/Sub-National
NAMA type study
by AIM simulations**



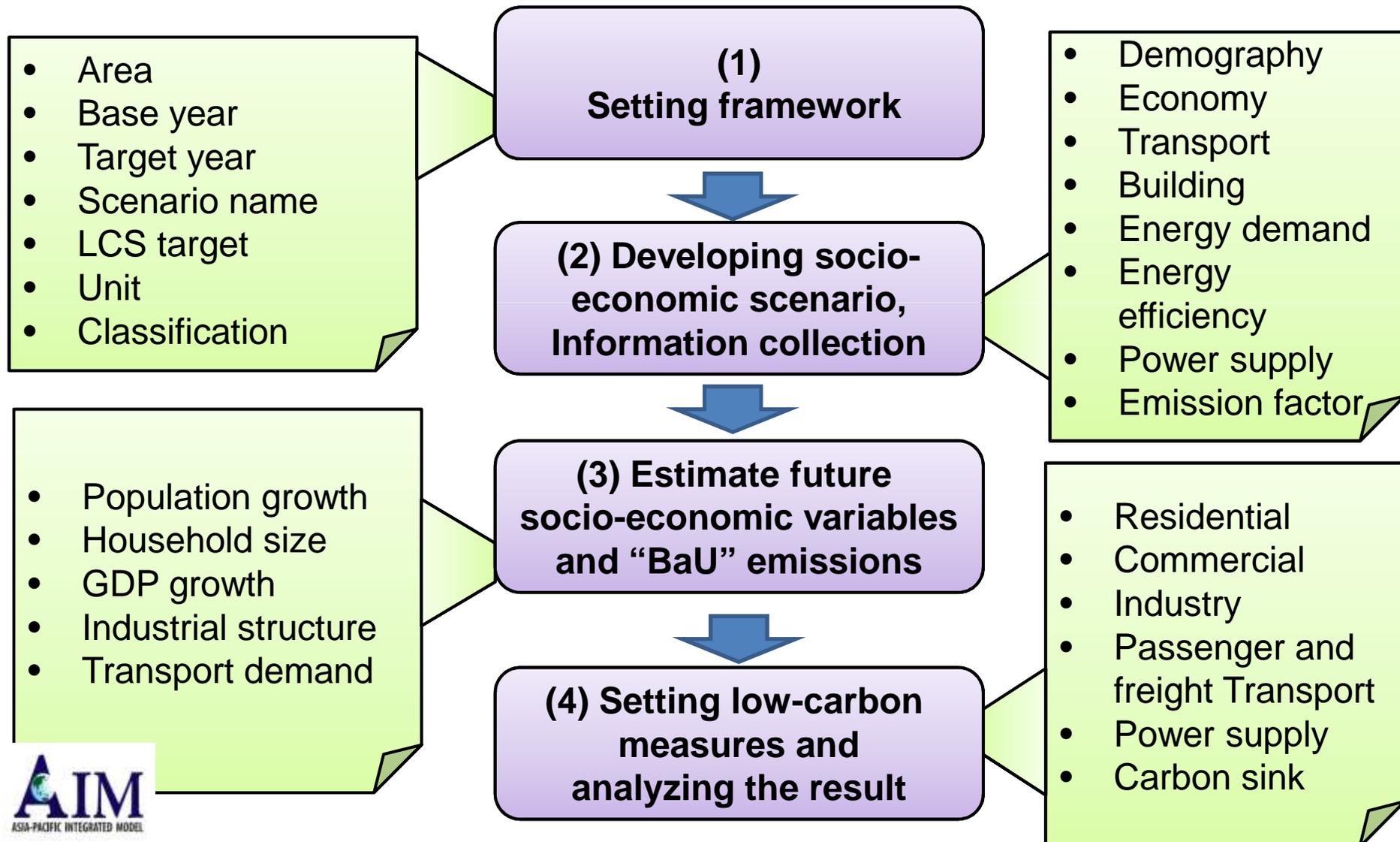
AIM is an abbreviation of “Asia-Pacific Integrated Model” to support design sustainable societies and suggest actions comprehensively and consistently in quantitative manner.

AIM developed by National Institute for Environmental Studies (NIES) in collaboration with Kyoto University and several research institutes in the Asia-Pacific region since 1990.

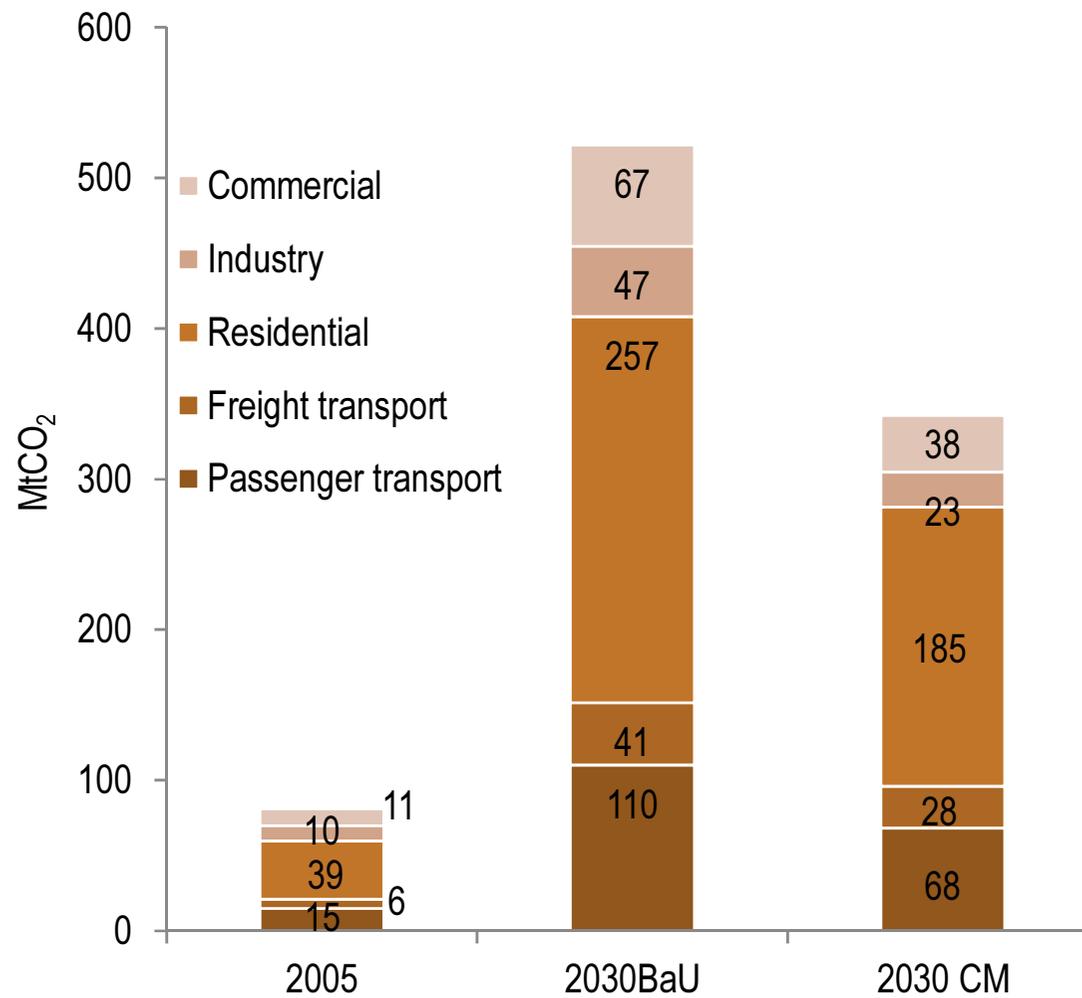
AIM has more than 20 simulation models such as top-down economy models, bottom-up technology models, sector-wise service demand and energy supply model, and environmental aspect models in global/national/sub-national scale.

Procedure to develop Low Carbon Development Strategies

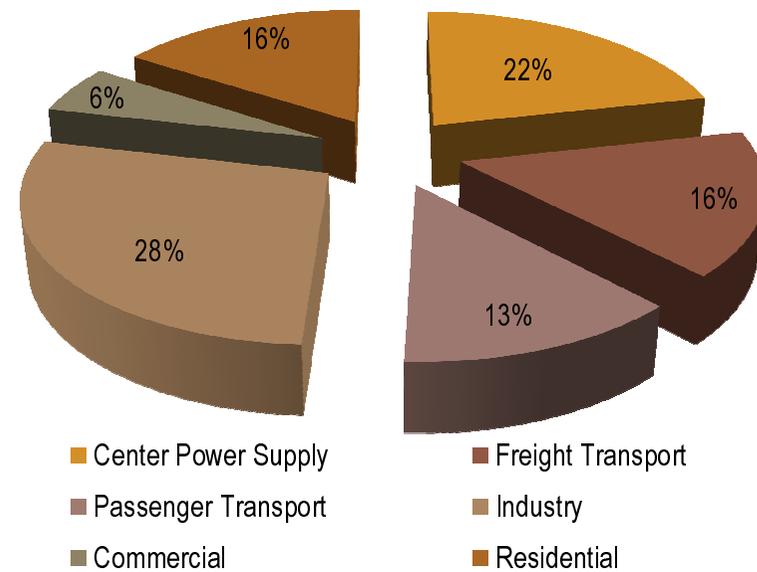
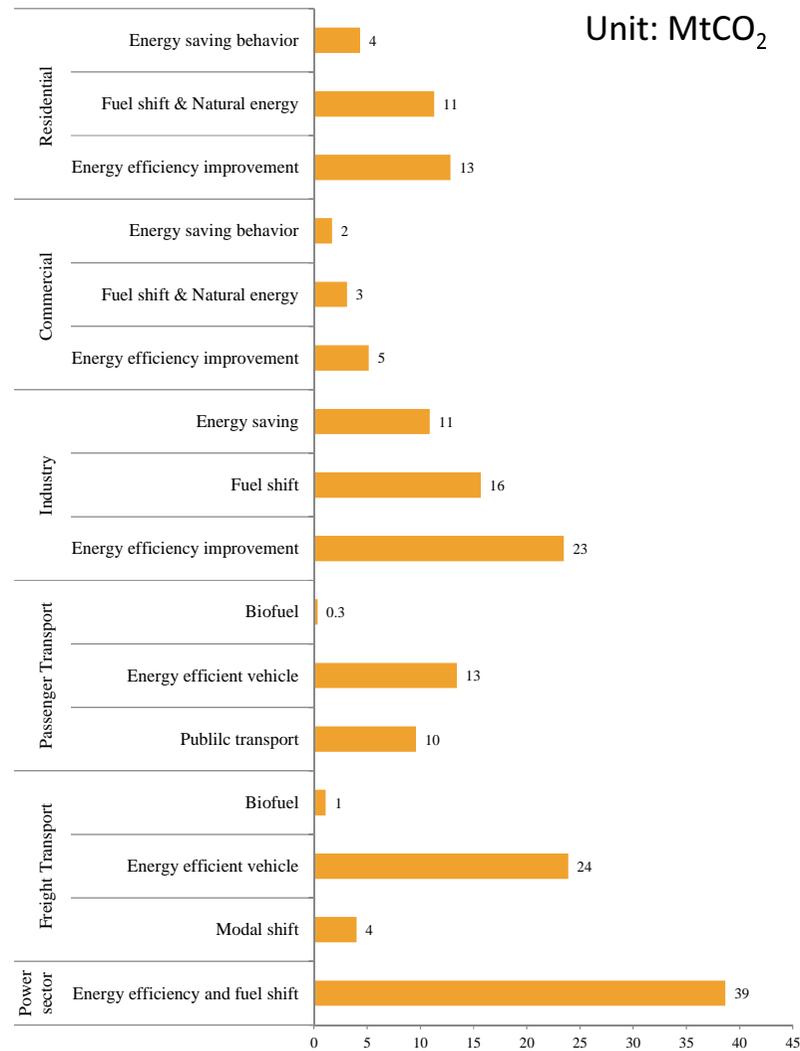
For Asia LCS studies, **ExSS (Extended Snapshot tool; accounting tool)** has been applied to many countries and cities to communicate policy makers.



Projected CO₂ emissions from energy sector



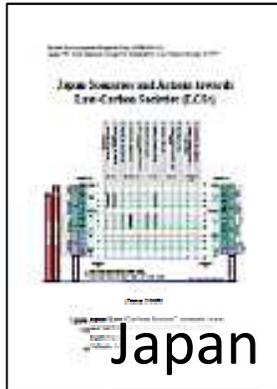
Contribution of low carbon countermeasures



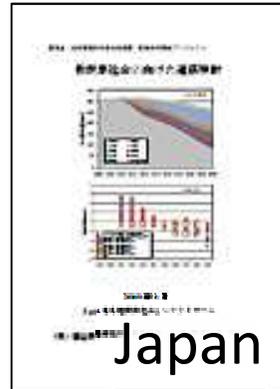


**Low Carbon Society Study Workshop
25th Apr 2013, Vinh Phuc, Viet Nam**

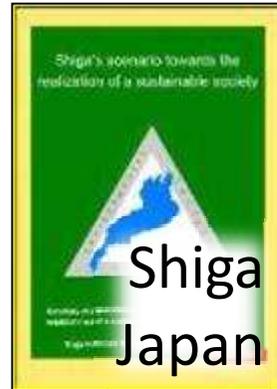
Low-Carbon Society Scenarios in Asia using AIM



Japan



Japan



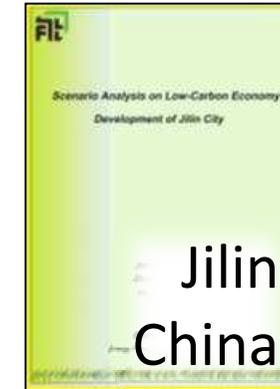
Shiga
Japan



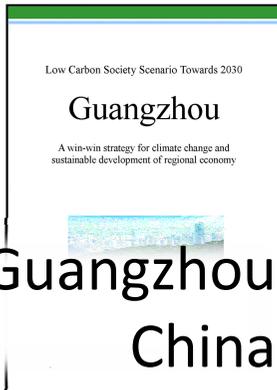
Shiga
Japan



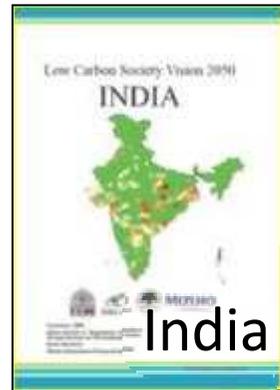
Kyoto
Japan



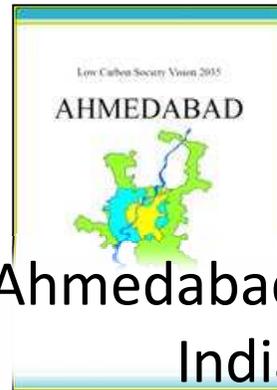
Jilin
China



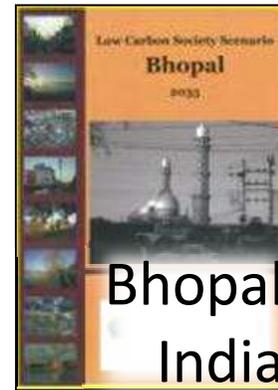
Guangzhou
China



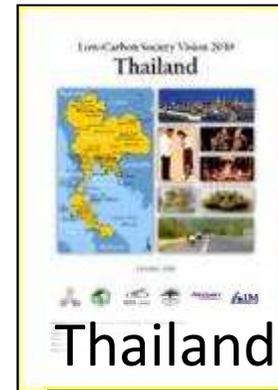
India



Ahmedabad
India



Bhopal
India



Thailand



Indonesia



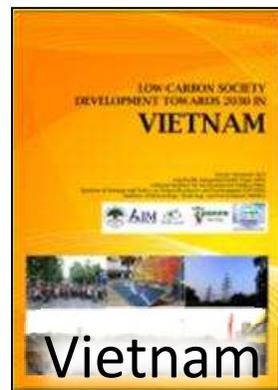
Iskandar
Malaysia



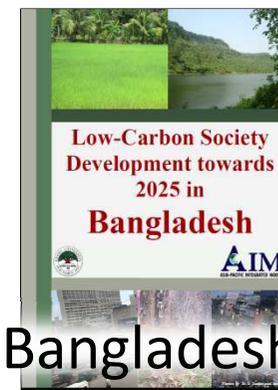
Putrajaya
Malaysia



Cyberjaya
Malaysia



Vietnam



Bangladesh

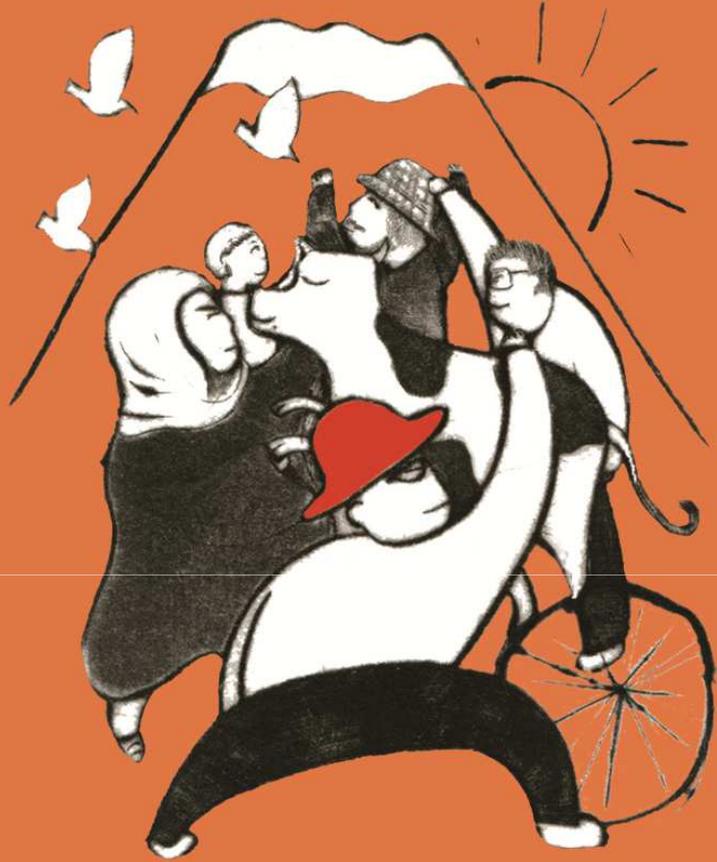


What
is
NEXT???

Sustainable
Low-Carbon Asia
comes from
design,
imagination
and
co-working...

Let's work together!

Asia LCS



藤野 純一

Junichi FUJINO 

fuji@nies.go.jp