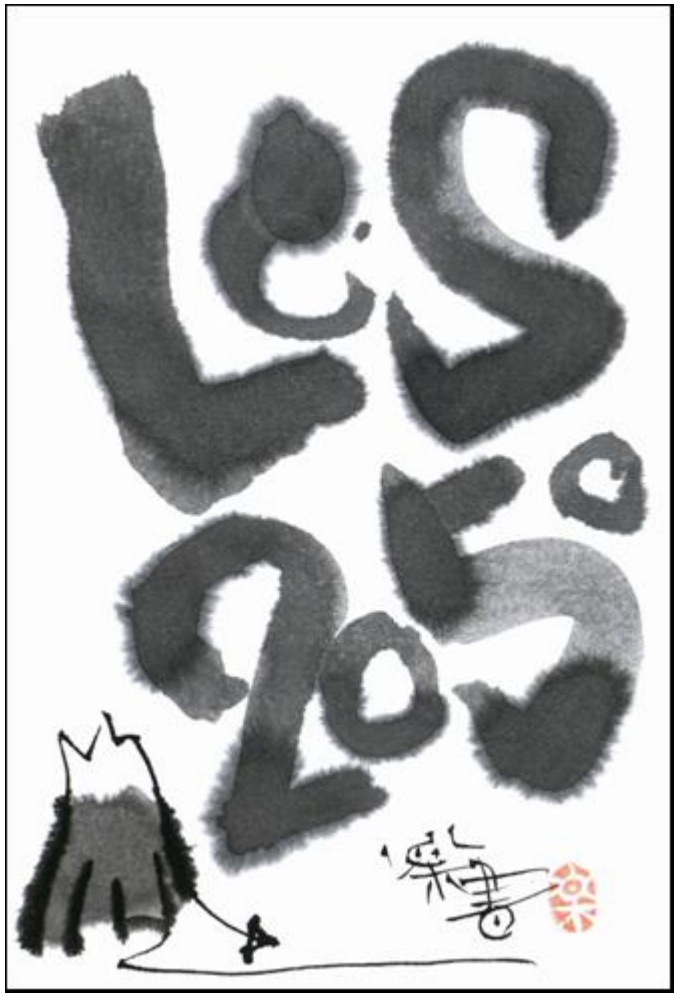
Introduction of Japan's initiatives and the NAMA Guidebook

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

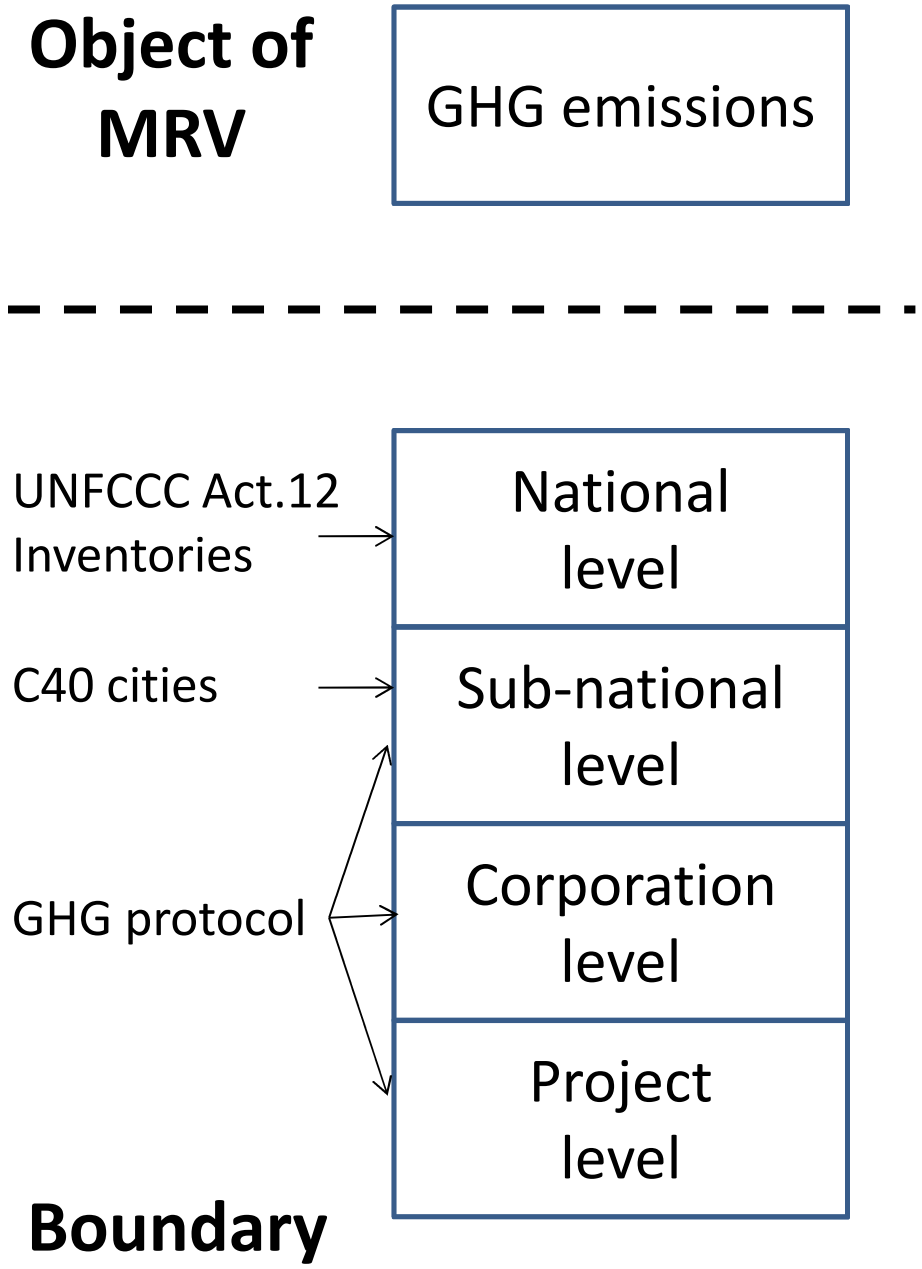
Lessons from field experiences

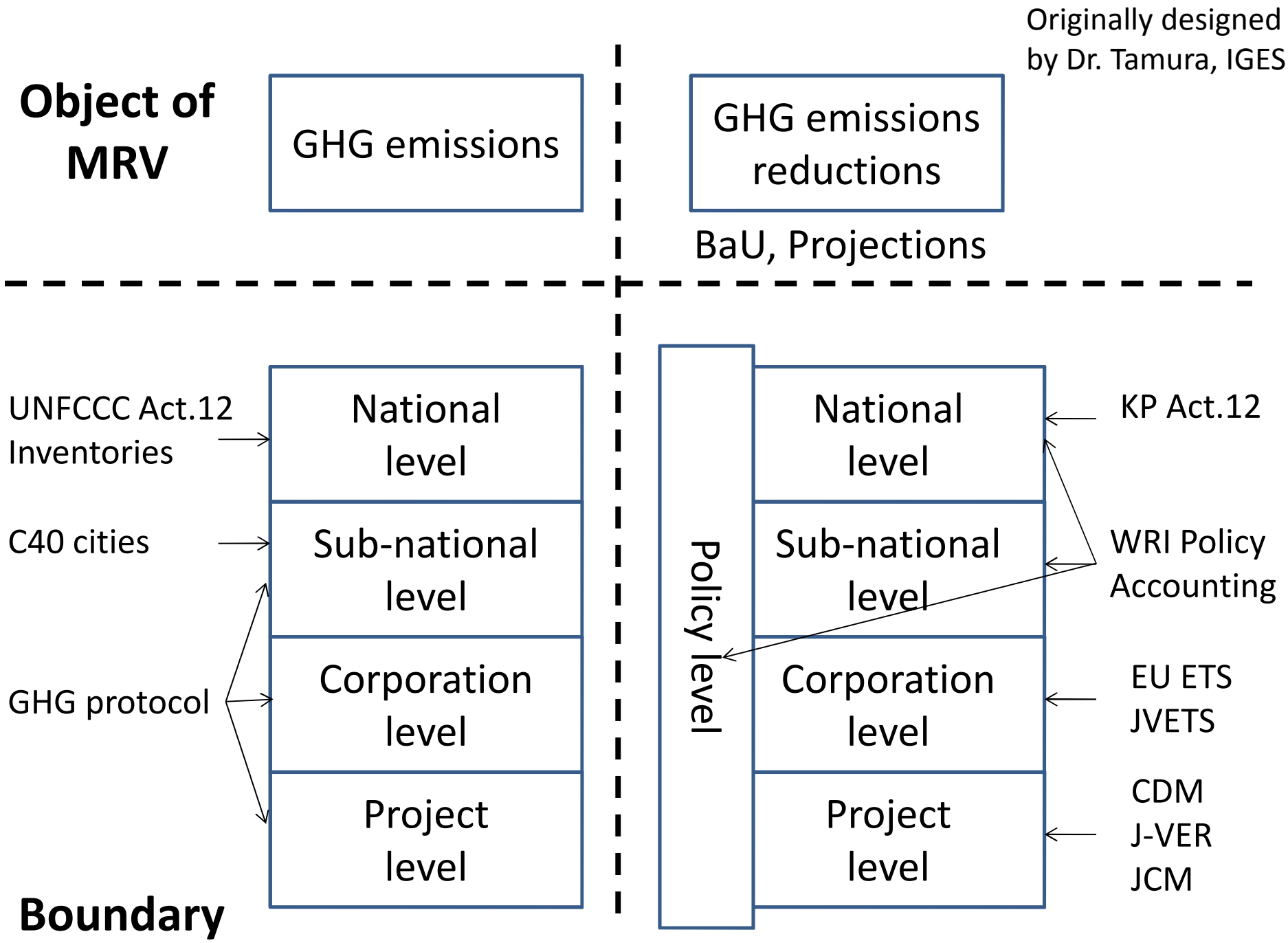
Developing and implementing NAMAs / MRV based on Guidebooks

Lessons from field experiences

NAMAs and MRV Guidebooks

Originally designed
by Dr. Tamura, IGES




Originally designed by Dr. Tamura, IGES
Object of MRV
GHG emissions
GHG emissions reductions
BaU, Projections
UNFCCC Act.12 Inventories
C40 cities
GHG protocol
National level
Sub-national level
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

Contents 4/4

National/Sub-National NAMA type study by AIM simulations

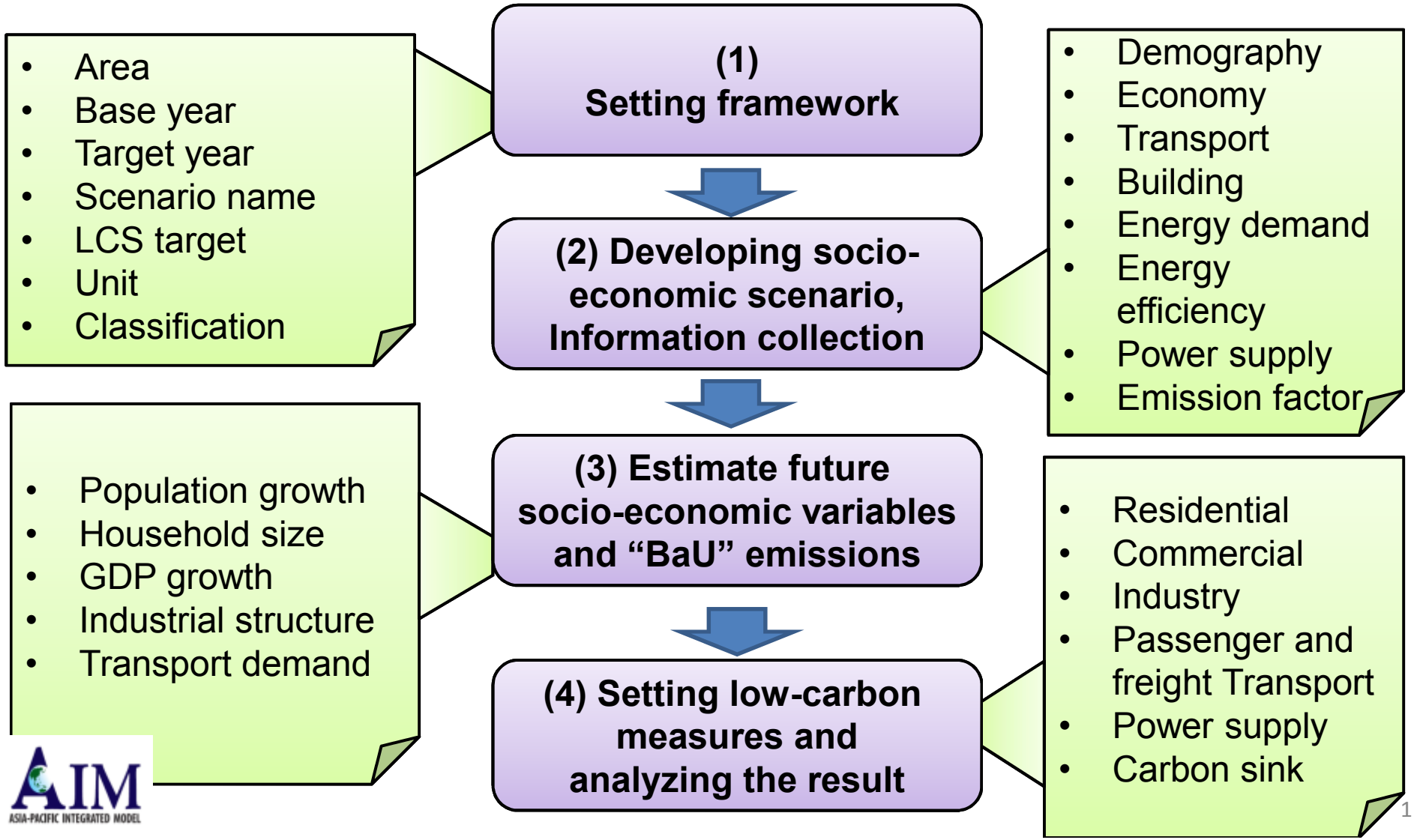
AIM is an abbreviation of “Asia-Pacific Integrated Model” to support design sustainable societies and suggest actions comprehensively and consistently in quantitative manner.

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.

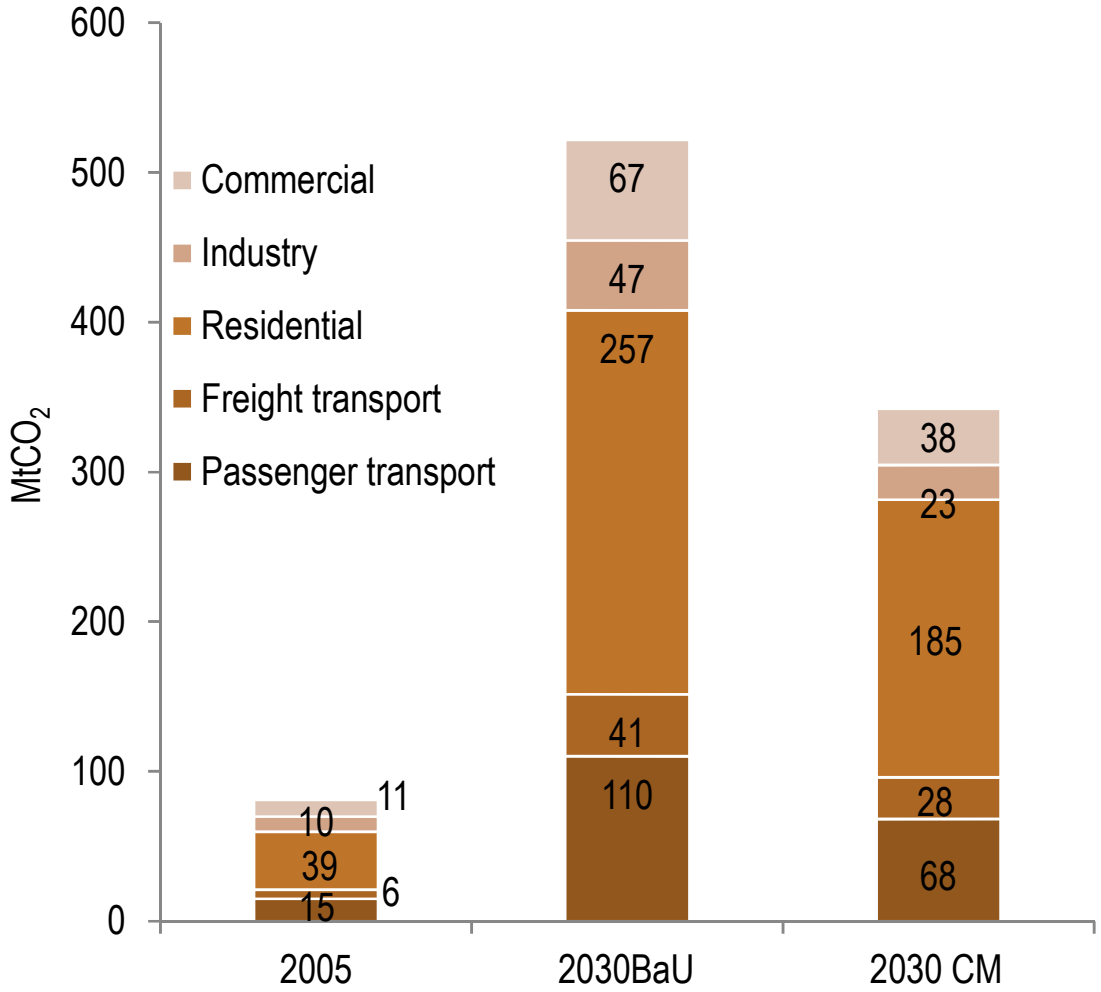
Procedure to develop Low Carbon Development Strategies

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

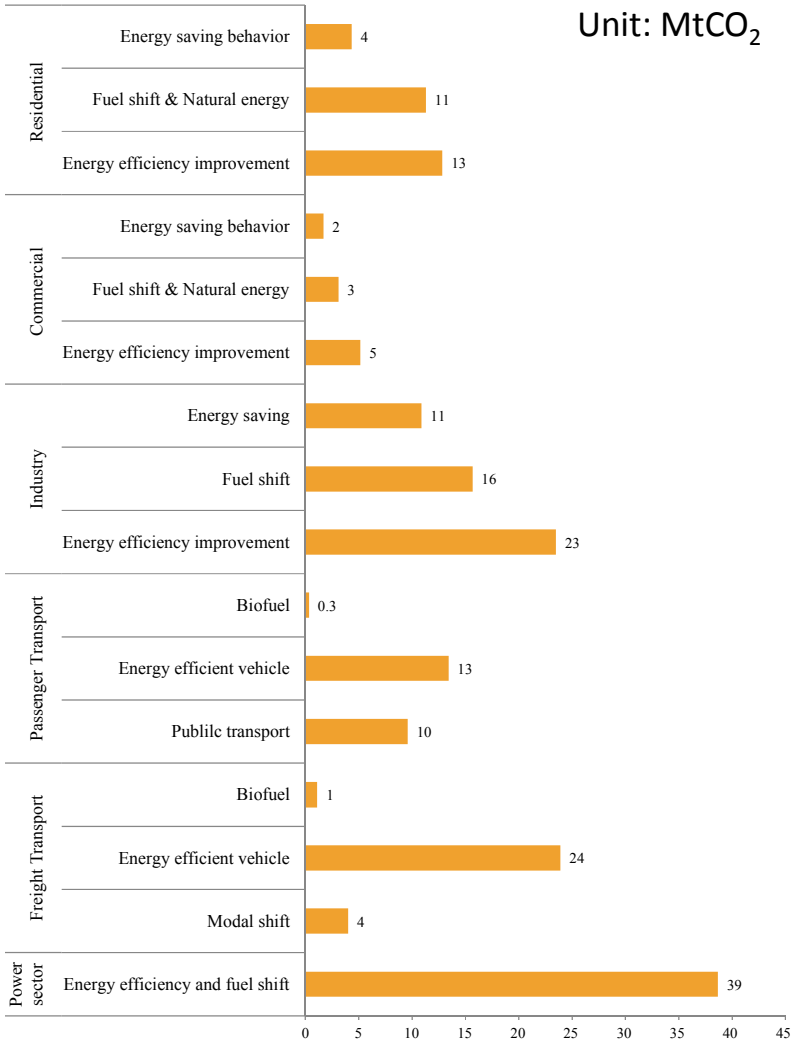


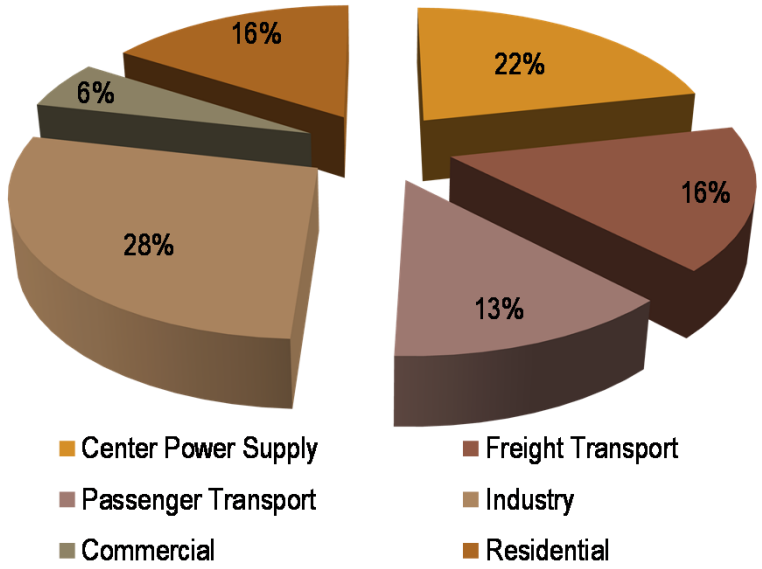
AIM
ASIA-PACIFIC INTEGRATED MODEL

Projected CO_2 emissions from energy sector



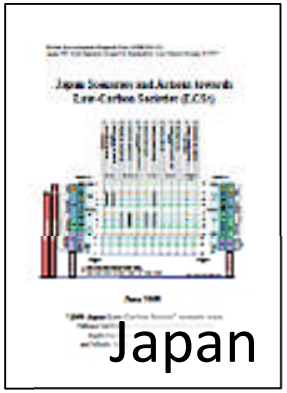
Contribution of low carbon countermeasures

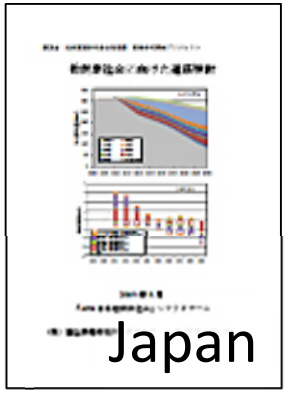




Low Carbon Society Study Workshop
25th Apr 2013, Vinh Phuc, Viet Nam

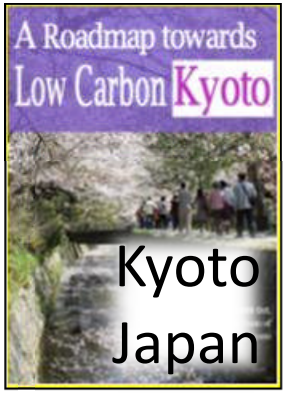
Low-Carbon Society Scenarios in Asia using AIM


Japan

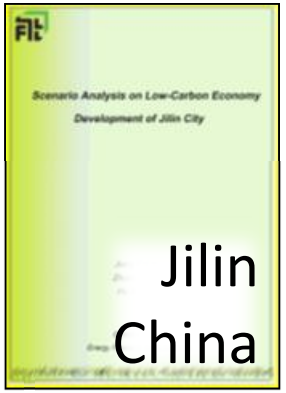

Japan

Shiga
Japan

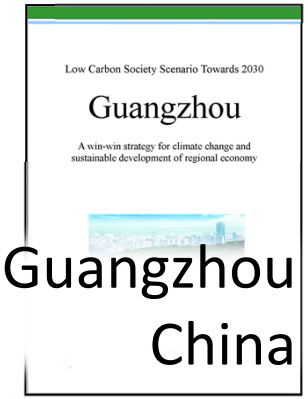
Shiga
Japan



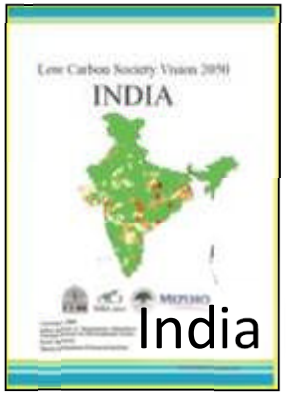
Kyoto
Japan



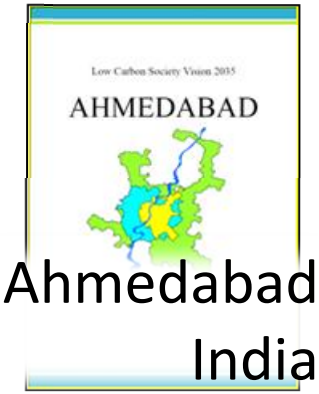
Jilin
China



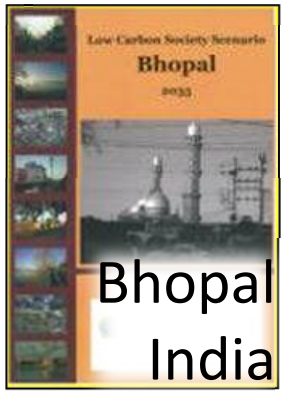
Guangzhou
China



India



Ahmedabad
India

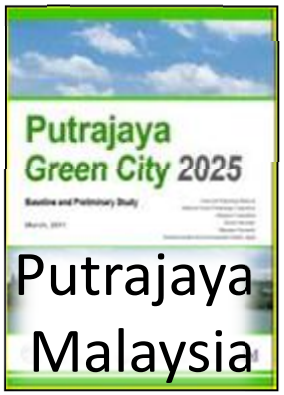


Bhopal
India

Thailand

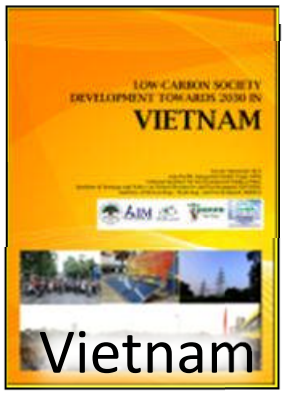
Indonesia

Iskandar
Malaysia



Putrajaya
Malaysia

Cyberjaya
Malaysia



Vietnam

Bangladesh

What
is
NEXT???

http://2050.nies.go.jp

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

Let’s work together!

藤野　純一
Junichi FUJINO
fuji@nies.go.jp