

S2A: Planning and Implementations by Local Governments

Junichi FUJINO

NIES/IGES

Japan Pavilion Side Event

8th Nov 2016, Marrakesh

Morocco





19:27pm Dec 11th 2015 in Le Bourget, Paris
3:27am Dec 12th 2015 in Tokyo, Japan

Paris Agreement to me

2 degree/1.5 degree
-> zero/minus emissions by 2100

INDCs -> NDCs + 5yr interval CCAP
submission and review process

Role of Non-State Actors
(Business + Local Governments)

What happens to national
government/local government?

NDCs

+

**Local Government
Action Plans**

How Japan respond to CC

1988 Toronto Conference: 20% GHG emission reductions by 2005 in Developed Countries

-> 1990 “Action Program to Arrest Global Warming” / stabilize per capita GHG emission by 2000

1992 Rio Summit, 1995 COP1/Berlin Mandate, 1997 COP3/Kyoto Protocol: -6% for Japan

-> 1998 “Outline for Promotion Effects to Prevent Global Warming” and “Act on Promotion of Global Warming Countermeasures”

Article 20-2 (National Government Action Plan)

Article 21 (Action plans of local governments)

Act on Promotion of Global Warming Countermeasures (1998)
Article 20-2 (**National Government** Action Plan)

- (1) The national government shall **implement a plan** (referred to hereinafter in this article as the "National Government Action Plan") for measures to reduce greenhouse gas emissions and to maintain and improve greenhouse gas absorption with regard to its own administration and undertakings, in line with the Kyoto Protocol Target Achievement Plan.
- (2) The National Government Action Plan shall prescribe the following matters.
 - (i) **Plan period**
 - (ii) **Goals** of the National Government Action Plan
 - (iii) Content of **measures** to be implemented
 - (iv) **Other matters** needed for implementation of the National Government Action Plan

Act on Promotion of Global Warming Countermeasures (1998)
Article 21 (Action plans of **local governments**)

- (1) **Prefectural and municipal governments** shall **formulate plans** (referred to hereinafter in this article as "action plans of local governments") for measures to reduce greenhouse gas emissions and to maintain and improve greenhouse gas absorption with regard to their own administration and undertakings, in line with the Kyoto Protocol Target Achievement Plan.
- (2) The action plans of local governments shall prescribe the following matters.
 - (i) Plan period
 - (ii) Goals of the action plans of local governments
 - (iii) Content of measures to be implemented
 - (iv) Other matters needed for implementation of the action plans of local governments

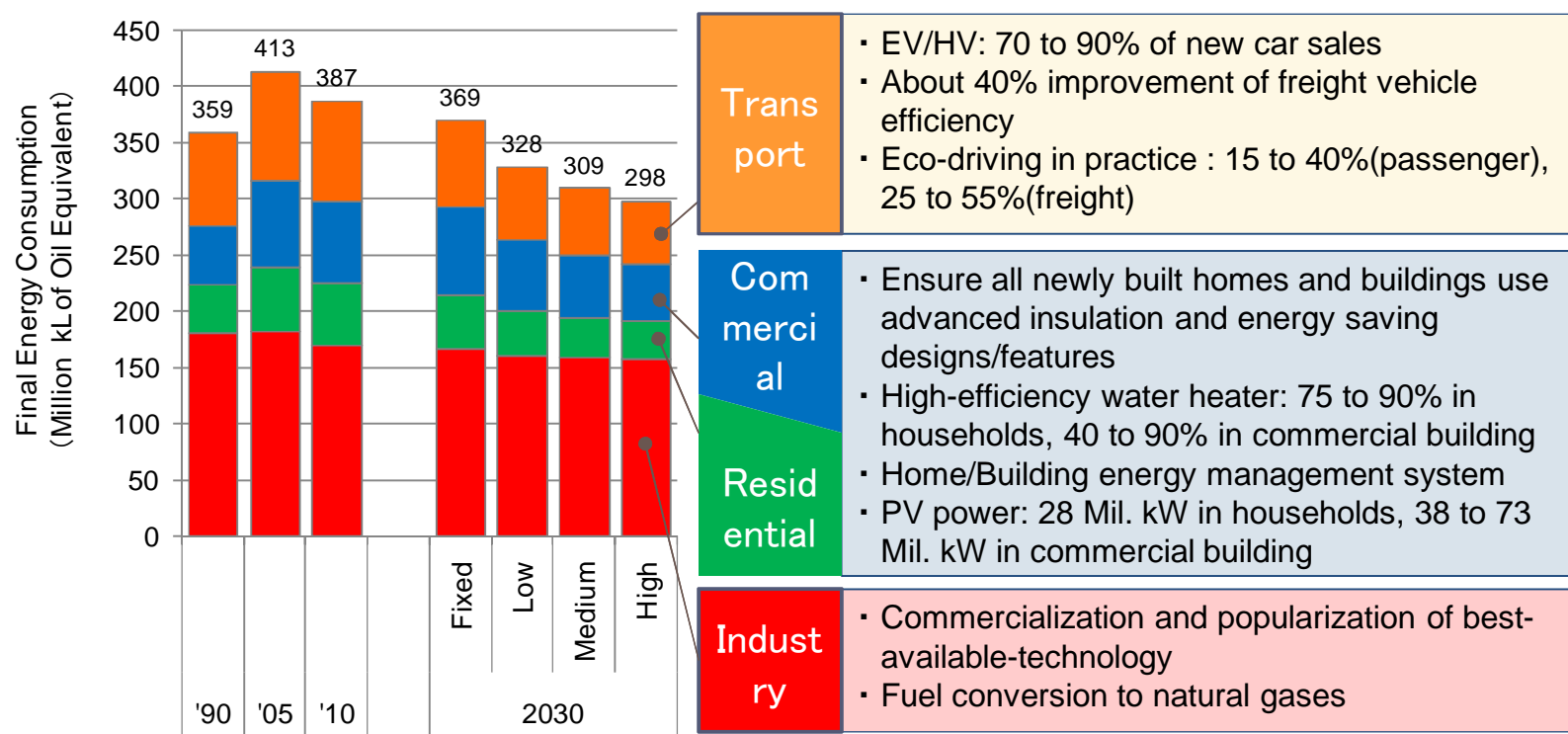
Act on Promotion of Global Warming Countermeasures (1998)
Article 21 (Action plans of **local governments**)

(3) Upon formulating or changing action plans of local governments, the respective prefectural and municipal governments shall announce those plans without delay.

(4) **Once each year**, the respective prefectural and municipal governments shall announce the situation of implementation of measures based on the action plans of local governments, including total greenhouse gas emissions.

Analysis by AIM/Enduse in Japan

Final energy consumption in 2030 (low growth case)



Methodology of LCS scenario development

1. Data collection

Macro data

- Population/household
- GDP growth
- Economic development
- Transport
- Others

Energy and technology data

- Energy efficiency
- Technology status
- Emission factor

Project data of CCAP

- Implementation of mitigation measures
- Diffusion rate of technology

2. Model simulation

AIM/ExSS

Energy related
GHG emissions

Energy related
GHG emissions
reduction

AIM/Book-keeping

Non-energy related
GHG emissions

Non-energy related
GHG emissions
reduction

3. Contribution to CCAP

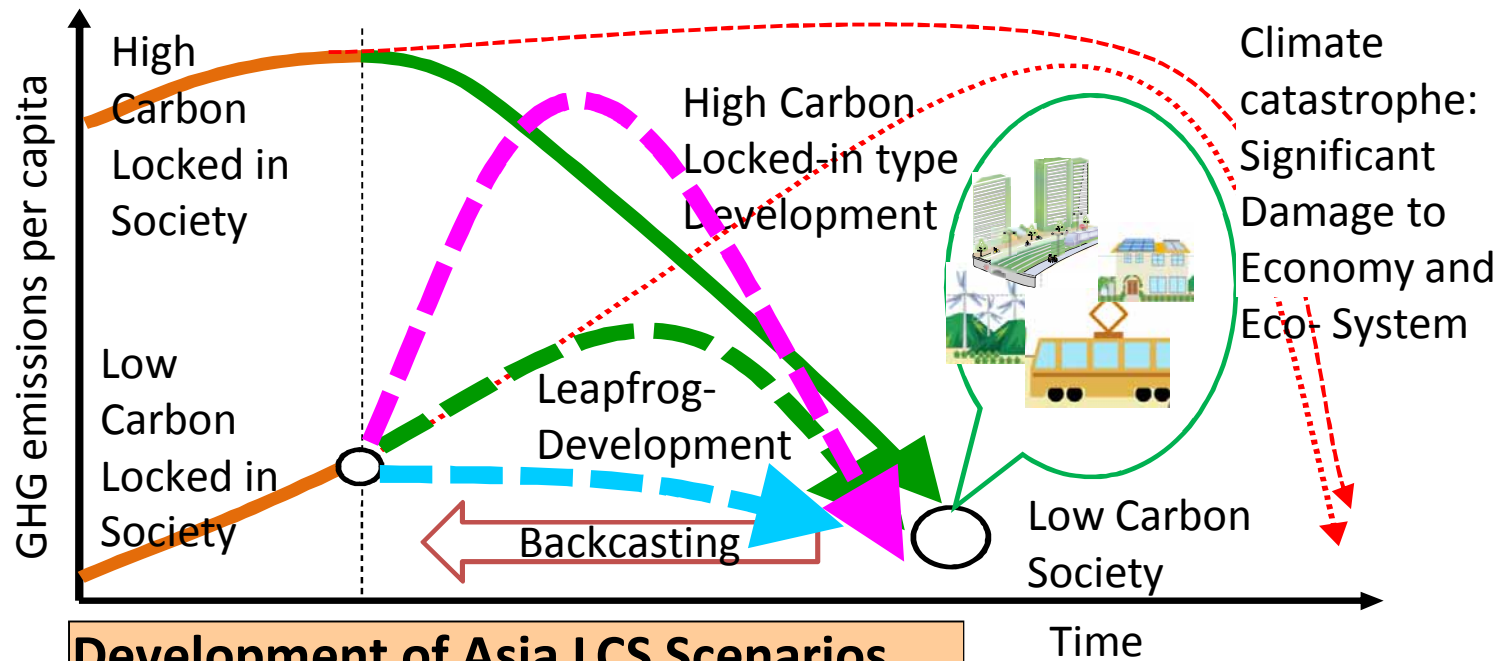
Technical report

- Socio-economic activity
- Energy demand
- GHG emissions
- GHG emissions reduction

Climate Change
Action Plan

Information sharing and exchanging

How to reach to Low Carbon Society in Asia ?



Development of Asia LCS Scenarios

- (1) Depicting narrative scenarios for LCS
- (2) Quantifying future LCS visions
- (3) Developing robust roadmaps by backcasting

Policy Packages for Asia LCS

LCS Scenarios and Plans in Asian Countries and cities

http://2050.nies.go.jp/LCS/index_j.html

as of October 29, 2014

- Country Scenario (orange circle)
- Local Scenario (red square)

[Scenario list](#)

AIM
ASIA-PACIFIC DISTRIBUTION MODEL

CHINA
Asia Local Scenario ▶

KOREA
Asia Local Scenario ▶

INDIA
Asia Scenario ▶
Asia Local Scenario ▶

BANGLADESH
Asia Scenario ▶

VIETNAM
Asia Scenario ▶

THAILAND
Asia Scenario ▶
Asia Local Scenario ▶

CAMBODIA
Asia Scenario ▶

MALAYSIA
Asia Scenario ▶
Asia Local Scenario ▶

INDONESIA
Asia Scenario ▶

Low Carbon Scenarios for Ho Chi Minh City, Vietnam 2030

LOW CARBON SOCIETY SCENARIOS
VIETNAM 2030

Low Carbon Development Strategy for Cambodia toward 2050

Low Carbon Society Scenario Toward 2050
INDONESIA
Energy Sector

Indonesia End Use

Low Carbon National Economic Development

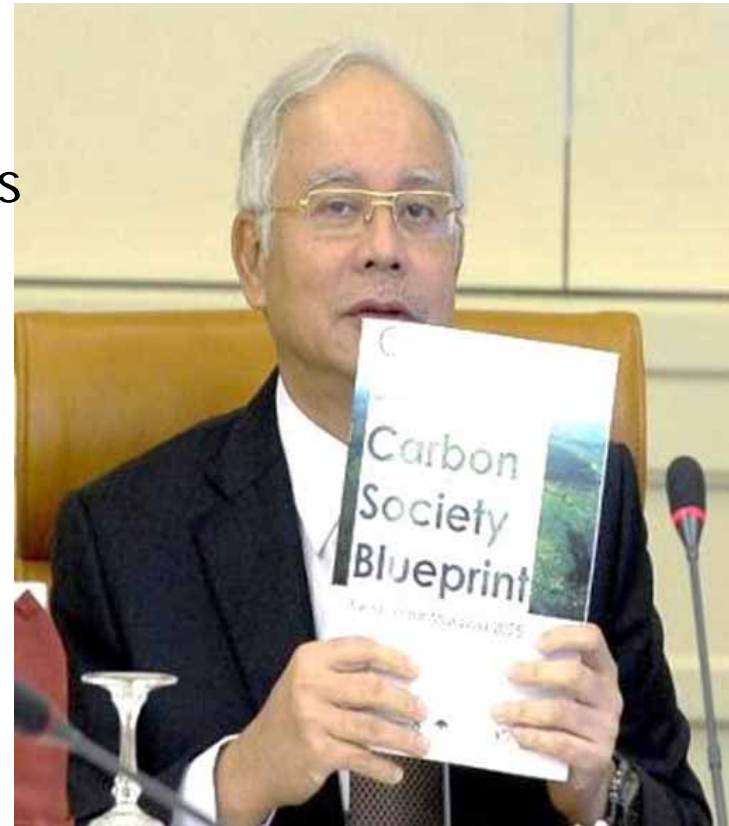
Know-How Transfer from Japan to Malaysia

“Development of Low Carbon Society Scenarios for Asian Regions”
In the case of “**Iskandar Malaysia**”

Japanese experience on
Low Carbon Scenarios & Roadmaps
+
Malaysian challenge on
Implementation of Low Carbon Visions



Premier of Malaysia provided
permission in the 13th IRDA
Steering Committee to start
the Iskandar Low Carbon
Society planning
(December 11th, 2012)

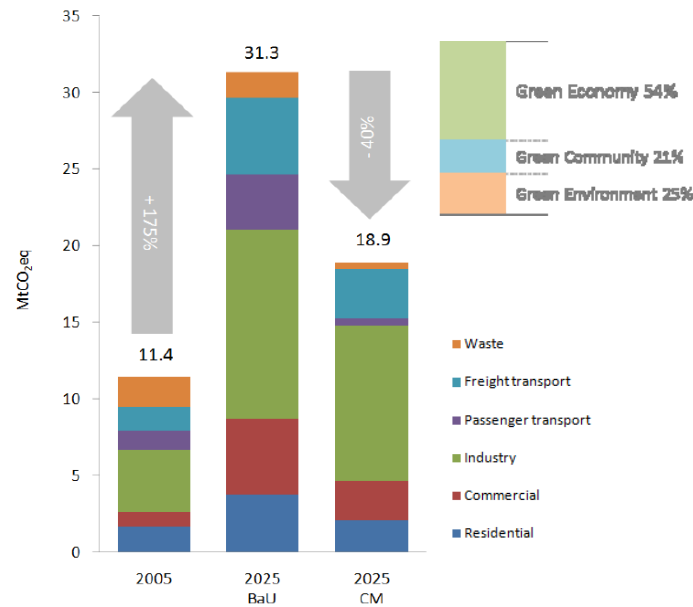




LCS scenarios for policy development in IM

The *Low Carbon Society Blueprint for Iskandar Malaysia 2025*

- ✓ Document that presents comprehensive climate change mitigation policies and detailed strategies to guide development of Iskandar Malaysia
- ✓ Stress on the **holistic and integrated approach to decouple economy and environment development**
Comprise of two principal components:
 - I) Narrative on growth scenarios, policies, measures and programs to achieve a minimum targeted **40% reduction in carbon emission by 2025** based on the 2005 level and;
 - II) **scenario-based modelling** and projection of carbon emission reductions achievable.

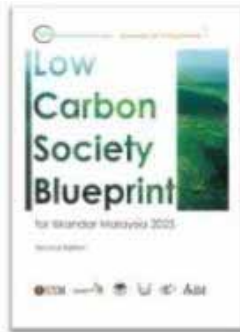


GHG reductions by Actions

| Mitigation Options | ktCO ₂ Reduction | % |
|---|-----------------------------|-------------|
| Green Economy | 6,937 | 54% |
| Action 1 Integrated Green Transportation | 1,916 | 15% |
| Action 2 Green Industry | 1,094 | 9% |
| Action 3 Low Carbon Urban Governance** | - | - |
| Action 4 Green Building and Construction | 1,203 | 9% |
| Action 5 Green Energy System and Renewable Energy | 2,725 | 21% |
| Green Community | 2,727 | 21% |
| Action 6 Low Carbon Lifestyle | 2,727 | 21% |
| Action 7 Community Engagement and Consensus Building** | - | - |
| Green Environment | 3,094 | 25% |
| Action 8 Walkable, Safe and Livable City Design | 263 | 2% |
| Action 9 Smart Urban Growth | 1,214 | 10% |
| Action 10 Green and Blue Infrastructure and Rural Resources | 392 | 3% |
| Action 11 Sustainable Waste Management | 1,224 | 10% |
| Action 12 Clean Air Environment** | - | - |
| Total | 12,467** | 100% |

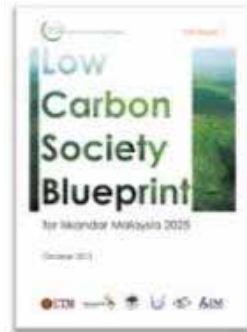
Low Carbon Society for Iskandar Malaysia Publications

2012



Low Carbon Society Blueprint for Iskandar Malaysia 2025- Summary for Policymakers

2013



Low Carbon Society Blueprint for Iskandar Malaysia 2025- Full Report

2013



A Roadmap towards Low Carbon Iskandar Malaysia 2025

2013



Iskandar Malaysia: Action for a Low Carbon Future

2014



Low Carbon Society Brochures for 5 Municipalities within IM



COP 18, Doha

11th December 2012
The PM endorses the launching of LCSBPIM at COP 18 during MoA



MOA, 2012



MOA, 2013

1st January 2013
IRDA newly set Environment Division to fulfill LCS Blueprint



COP 19, Warsaw



COP 20, Lima

6th November 2013
The PM launched Actions for a Low Carbon Future during MoA

Know-How Transfer from Japan- Malaysia to Vietnam

**Low Carbon Society scenario approach and methodology,
including integration of project based stories and CCAP
(Climate Change Action Plan)**



**Training program for Da Nang and Hai Phong cities
on 8th & 9th Dec 2015 in Kyoto University**

Capacity Building Seminar on Low Carbon Planning in Hai Phong on 28th April 2016





Officer from DONRE,
Hai Phong City



Prof. Ho Chin Shiong
UTM



Dr. Luong Quang Huy
Director, MONRE





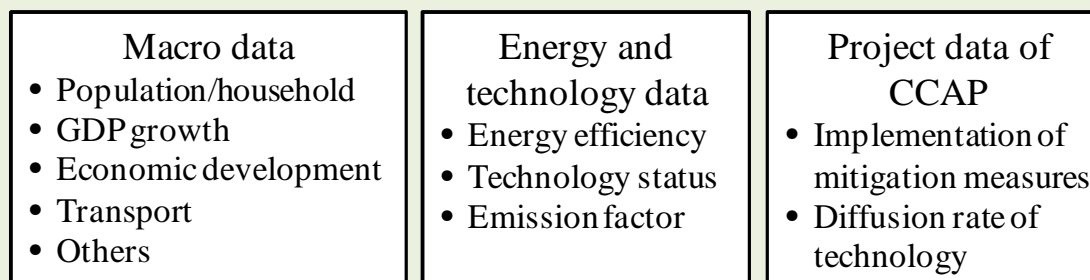


Low Carbon Society Scenario Workshop in Hai Phong on 13th Sep 2016

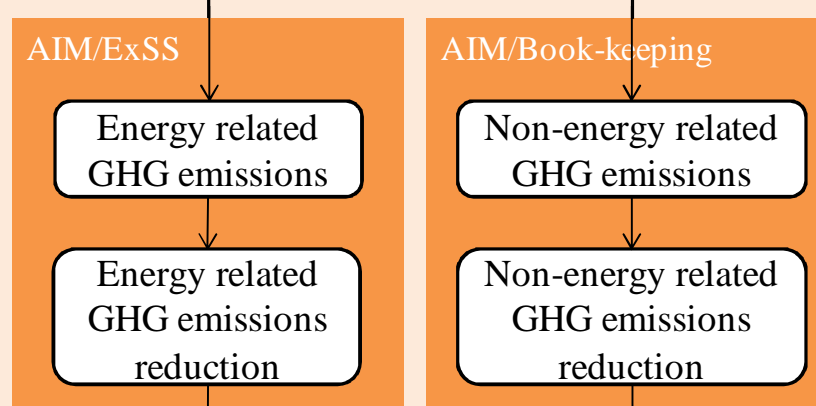


Methodology of LCS scenario development

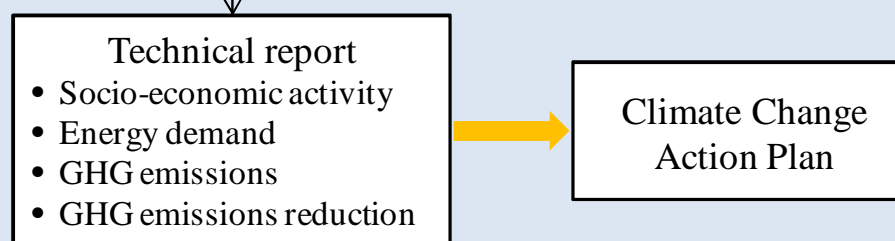
1. Data collection



2. Model simulation



3. Contribution to CCAP



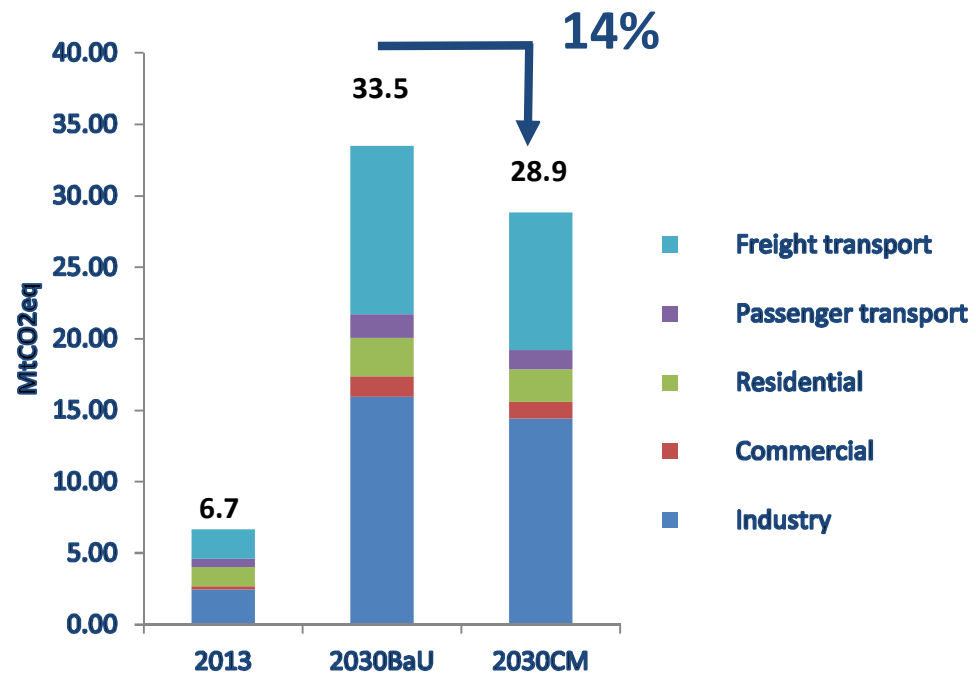
Information sharing and exchanging



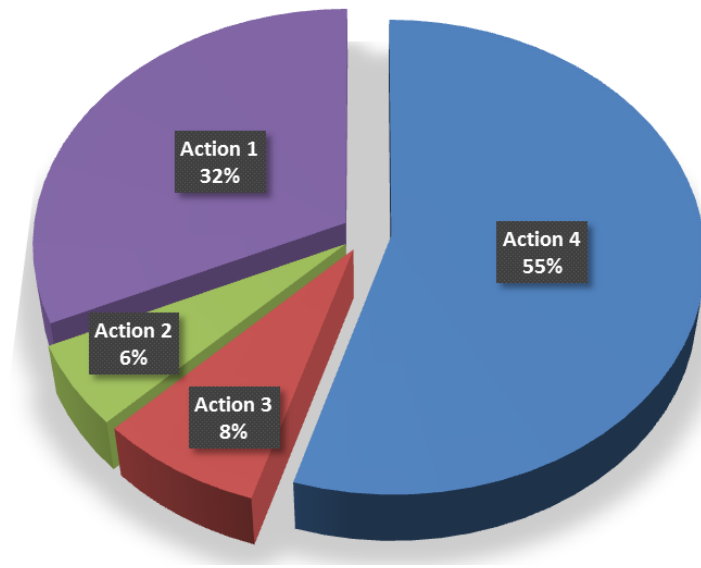
Socioeconomic indicator

| | Unit | 2013 | 2030 | 2030/2013 |
|-------------------------------|------------|-----------|-----------|-----------|
| Population | persons | 1,925,217 | 3,000,000 | 1.56 |
| No. of households | households | 553,406 | 1,000,000 | 1.81 |
| GDP per capita | mil. Dongs | 55 | 193 | 3.51 |
| GDP | bil. Dongs | 105,651 | 577,829 | 5.47 |
| Outputs | bil. Dongs | 282,310 | 1,595,478 | 5.65 |
| Final consumption | bil. Dongs | 67,644 | 369,309 | 5.46 |
| Gross fixed capital formation | bil. Dongs | 38,607 | 210,777 | 5.46 |
| Export | bil. Dongs | 111,247 | 607,360 | 5.46 |
| Import | bil. Dongs | 111,847 | 609,616 | 5.45 |

GHG emission and reduction



| | Industry | Commercial | Residential | Passenger Transport | Freight Transport | Total (ktCO ₂ eq) |
|---|--------------|------------|-------------|---------------------|-------------------|------------------------------|
| Action 1. Green Industry Promotion of energy efficient equipment and fuel shift | 1,477 | | | | | 1,477 |
| Action 2. Green Building Diffusion of low-energy building (EMS, Insulation, Fuel shift) | | 199 | 63 | | | 262 |
| Action 3. Energy Efficiency Promotion of energy efficient device/appliance | | 130 | 233 | | | 363 |
| Action 4. Clean Transport Energy efficient vehicle and modal shift | | | | 284 | 2,257 | 2,541 |
| Total (ktCO₂eq) | 1,477 | 329 | 296 | 284 | 2,257 | 4,643 |



| Action | Project | Sector | Emission reduction (ktCO ₂ eq) | |
|----------------------------|---------|--|---|---------|
| 1 Green Industry | 1-01 | Energy savings in factory | Industry | 601.9 |
| | 1-02 | Installation high energy efficiency facilities (such as compressors and motors) | Industry | 93.4 |
| | 1-03 | Regional energy supply system | Industry | 514.8 |
| | 1-04 | Improvement of kiln and furnace technology | Industry | 266.6 |
| Total | | | 1,476.8 | |
| 2 Green Building | 2-01 | Installation of insulated glasses to commecial buildings | Commercial | 19.5 |
| | 2-02 | Installation of insulated glasses to households | Residential | 35.5 |
| | 2-03 | Introduction of incentive to low energy buildings | Commercial | 3.5 |
| | 2-04 | Introduction of insulating material to houses | Residential | 13.4 |
| | 2-05 | Energy efficiency technology applied to buildings | Commercial | 9.7 |
| | 2-06 | Introduction of solar water heater to commercial buildings | Commercial | 44.5 |
| | 2-07 | Introduction of solar water heater to households | Residential | 102.4 |
| | 2-08 | Introduction of photovoltaic power generation to commercial buildings | Commercial | 29.2 |
| | 2-09 | Introduction of photovoltaic power generation to households | Residential | 4.2 |
| Total | | | 262.0 | |
| 3 Energy Efficiency | 3-01 | Energy savings in commercial facilities | Commercial | 35.4 |
| | 3-02 | Coversion of street lights to LED lighting | Commercial | 3.2 |
| | 3-03 | High efficiency lighting in commercial buildings | Commercial | 43.0 |
| | 3-04 | High efficiency lighting in households | Residential | 36.4 |
| | 3-05 | High efficiency air conditioners (such as air conditioners with inverter controllers) in commercial buildings | Commercial | 22.7 |
| | 3-06 | High efficiency air conditioners (such as air conditioners with inverter controllers) in commercial households | Residential | 48.8 |
| | 3-07 | Promotion of energy-efficient appliances (refrigerator and other appliances) | Residential | 172.2 |
| | 3-08 | Promotion of energy-efficient appliances (cooking appliances) | Residential | 1.1 |
| Total | | | 362.8 | |
| 4 Clean Transport | 4-01 | Promotion of eco-driving with digital tachographs | Transport | 169.7 |
| | 4-02 | Smart traffic management | Transport | 5.4 |
| | 4-03 | Expansion of frequencies and routes of bus transportation | Transport | 7.6 |
| | 4-04 | Development of Bus Rapid Transit (BRT) | Transport | 3.8 |
| | 4-05 | Introduction of EV buses | Transport | 7.8 |
| | 4-06 | Introduction of electric motorbikes | Transport | 39.9 |
| | 4-07 | Promotion of energy-efficient vehicles (cars for passenger) | Transport | 160.2 |
| | 4-08 | Promotion of energy-efficient vehicles (motorbikes) | Transport | 87.0 |
| | 4-09 | Promotion of energy-efficient vehicles (trucks) | Transport | 2,060.1 |
| Total | | | 2,541.3 | |
| Total | | | 4,642.9 | |

Feb 29,
2016 in
Da Nang

HỘI THẢO THAM VẤN
NGHIÊN CỨU XÂY DỰNG KỊCH BẢN XÃ HỘI CÁC BON THẤP
CHO THÀNH PHỐ ĐÀ NẴNG ĐẾN NĂM 2030
CONSULTANCY WORKSHOP ON
LOW-CARBON SOCIETY SCENARIOS FOR DA NANG CITY 2030

Da Nang City, 29th February 2016



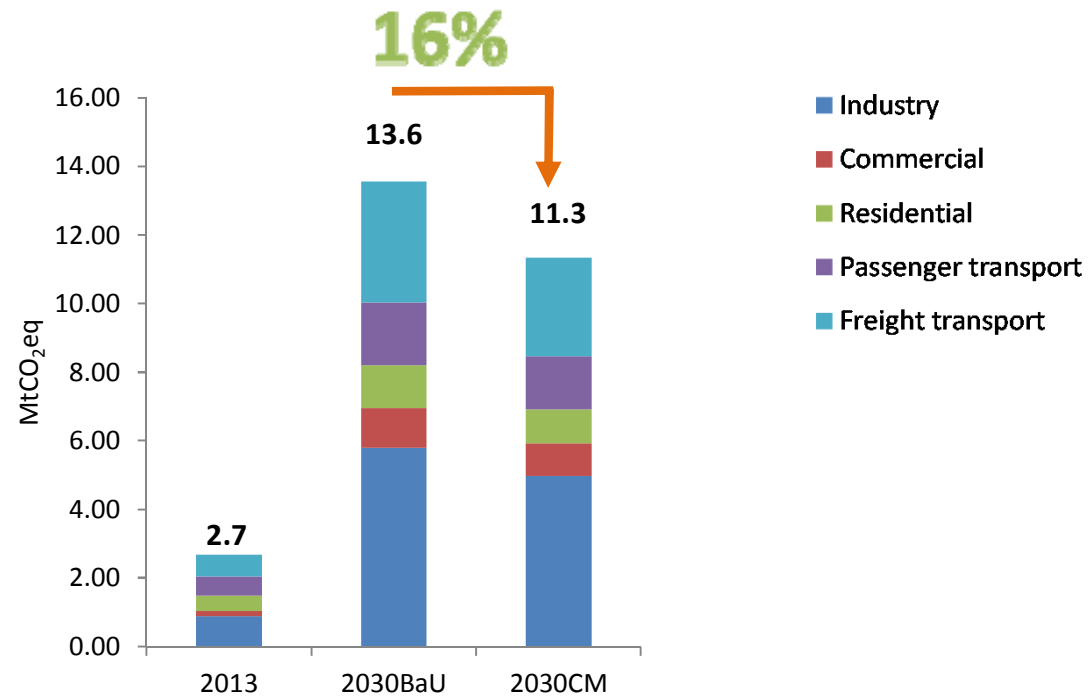
Sep 14,
2016 in
Da Nang



Socioeconomic indicator

| | Unit | 2013 | 2030 | 2030/2013 |
|-------------------------------|------------|---------|-----------|-----------|
| Population | persons | 992,849 | 2,533,190 | 2.55 |
| No. of households | household | 288,620 | 844,397 | 2.93 |
| GDP per capita | mil. Dongs | 52 | 117 | 2.26 |
| GDP | bil. Dongs | 51,624 | 297,542 | 5.76 |
| Agriculture | | 529 | 2,620 | 4.95 |
| Industry | | 17,831 | 100,813 | 5.65 |
| Commercial | | 33,264 | 194,109 | 5.84 |
| Outputs | bil. Dongs | 124,446 | 715,160 | 5.75 |
| Agriculture | | 821 | 4,066 | 4.95 |
| Industry | | 55,592 | 314,093 | 5.65 |
| Commercial | | 68,033 | 397,001 | 5.84 |
| Final consumption | bil. Dongs | 39,294 | 222,536 | 5.66 |
| Gross fixed capital formation | bil. Dongs | 25,895 | 146,657 | 5.66 |
| Export | bil. Dongs | 47,943 | 271,520 | 5.66 |
| Import | bil. Dongs | 61,508 | 343,171 | 5.58 |
| Passenger transport demand | mil.per.km | 8,642 | 26,770 | 3.10 |
| Freight transport demand | mil.ton.km | 2,563 | 14,201 | 5.54 |

GHG emission and reduction



5 actions towards LCC in Da Nang

| Climate change actions | Industry | Commercial | Residential | Passenger Transport | Freight Transport | Total (ktCO ₂ eq) |
|--|------------|------------|-------------|---------------------|-------------------|------------------------------|
| Action 1. Smart Industry | | | | | | |
| Promotion of energy efficient equipment and fuel shift | 829 | | | | | 829 |
| Action 2. Smart Building | | | | | | |
| Diffusion of low-energy building (EMS, Insulation, Fuel shift) | | 55 | 51 | | | 106 |
| Action 3. Energy Efficiency | | | | | | |
| Promotion of energy efficient device/appliance | | 118 | 180 | | | 298 |
| Action 4. Smart Transport | | | | | | |
| Energy efficient vehicle and modal shift | | | | 301 | 653 | 954 |
| Action 5. Green Energy | | | | | | |
| deployment of renewable electricity | | 34 | 5 | | | 39 |
| Total (ktCO₂eq) | 829 | 207 | 235 | 301 | 653 | 2,226 |

| Action | Project | Sector | Emission reduction (ktCO ₂ eq) |
|---------------------|---|-------------|---|
| 1 Smart Industry | 1-01 ESCO (Energy Saving Company) project for industries | Industry | 225.8 |
| | 1-02 Installation high energy efficiency facilities (such as compressors and motors) | Industry | 204.3 |
| | 1-03 Regional energy supply system | Industry | 127.1 |
| | 1-04 Improvement of kiln and furnace technology | Industry | 272.0 |
| | Total | | 829.3 |
| 2 Smart Building | 2-01 Installation of insulated glasses to commercial buildings | Commercial | 6.6 |
| | 2-02 Installation of insulated glasses to households | Residential | 7.0 |
| | 2-03 Introduction of incentive to low energy buildings | Commercial | 2.1 |
| | 2-04 Introduction of insulating material to houses | Residential | 28.6 |
| | 2-05 Energy efficiency technology applied to buildings | Commercial | 5.7 |
| | 2-06 Introduction of solar water heater to commercial buildings | Commercial | 18.9 |
| | 2-07 Introduction of solar water heater to households | Residential | 36.8 |
| Total | | 105.7 | |
| 3 Energy Efficiency | 3-01 ESCO (Energy Saving Company) project for commercial buildings | Commercial | 33.1 |
| | 3-02 High efficiency lighting in public lighting | Commercial | 4.3 |
| | 3-03 High efficiency lighting in commercial buildings | Commercial | 50.5 |
| | 3-04 High efficiency lighting in households | Residential | 36.1 |
| | 3-05 High efficiency air conditioners in commercial buildings | Commercial | 37.1 |
| | 3-06 High efficiency air conditioners in households | Residential | 37.2 |
| | 3-07 Promotion of energy-efficient appliances | Residential | 99.7 |
| Total | | 298.1 | |
| 4 Smart Transport | 4-01 Promotion of eco-driving with digital tachographs | Transport | 46.6 |
| | 4-02 Wide-range traffic control | Transport | 4.9 |
| | 4-03 Expansion of frequencies and routes of bus transportation | Transport | 10.5 |
| | 4-04 Development of Bus Rapid Transit (BRT) | Transport | 5.2 |
| | 4-05 Shift to CNG bus | Transport | 11.9 |
| | 4-06 Introduction of electric motorbikes | Transport | 62.6 |
| | 4-07 Promotion of energy-efficient vehicles (cars for passenger) | Transport | 102.5 |
| | 4-08 Promotion of energy-efficient vehicles (motorbikes) | Transport | 143.5 |
| | 4-09 Promotion of energy-efficient vehicles (trucks) | Transport | 566.2 |
| Total | | 954.0 | |
| 5 Green Energy | 5-01 Introduction of photovoltaic power generation to commercial buildings | Commercial | 32.4 |
| | 5-02 Introduction of photovoltaic power generation to households | Residential | 4.6 |
| | 5-03 Introduction of small-scale hydropower generation (at water distribution stations) | Commercial | 1.6 |
| Total | | 38.7 | |

From Planning to Implementations

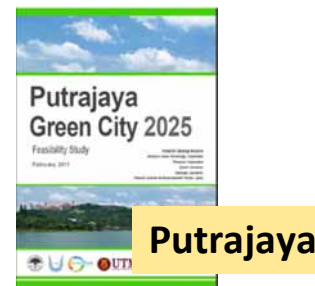
LCS planning and implementation in cities

- AIM supports to develop LCS planning using our quantitative GHG mitigation simulation methodology first.
- Then Putrajaya and Iskandar Malaysia are trying to design administrative implementation program to realize green cities in their jurisdictions.

LCS Planning

through quantitative approach

- GHG Emission & Reduction
- LCS Policies & Actions



Putrajaya



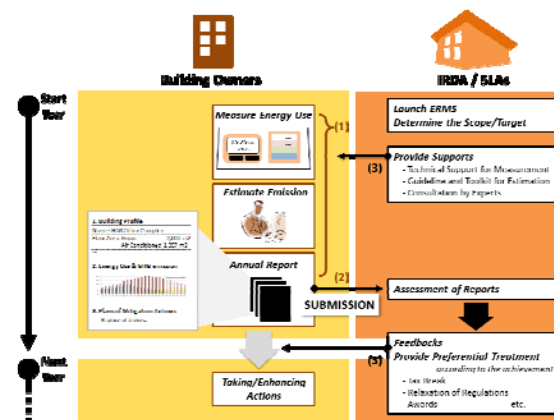
Iskandar

Next Stage

Implementation

through practical program design

- Monitoring
- Evaluation & Modification of the Policy

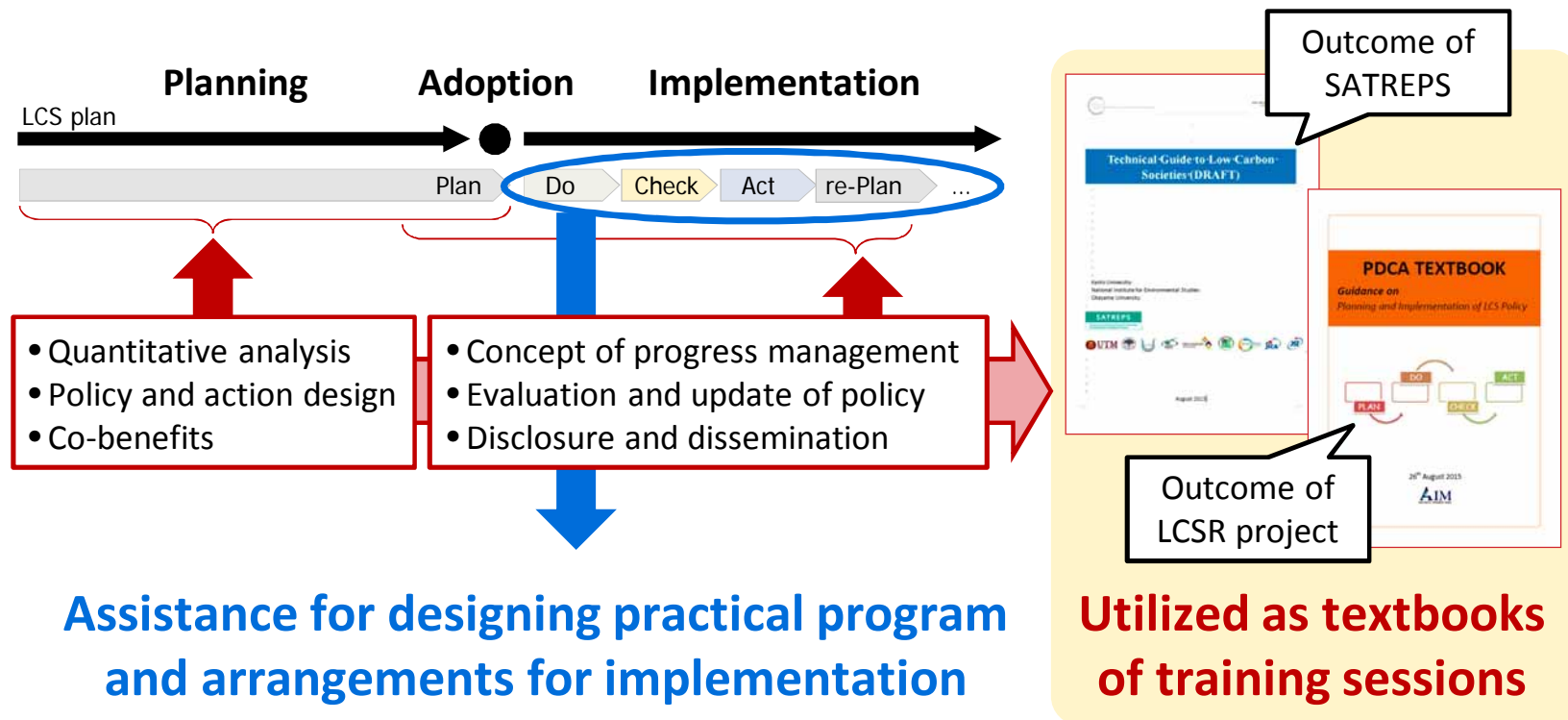


Putrajaya

Iskandar

PDCA process of LCS policy

- AIM team is making documents which explains PDCA process of LCS policy. Expected user is policy makers and researchers in Asian region.
- Those documents include processes of monitoring, evaluating and reviewing of LCS policy as well as methodology for planning.



Best Practice in Tokyo

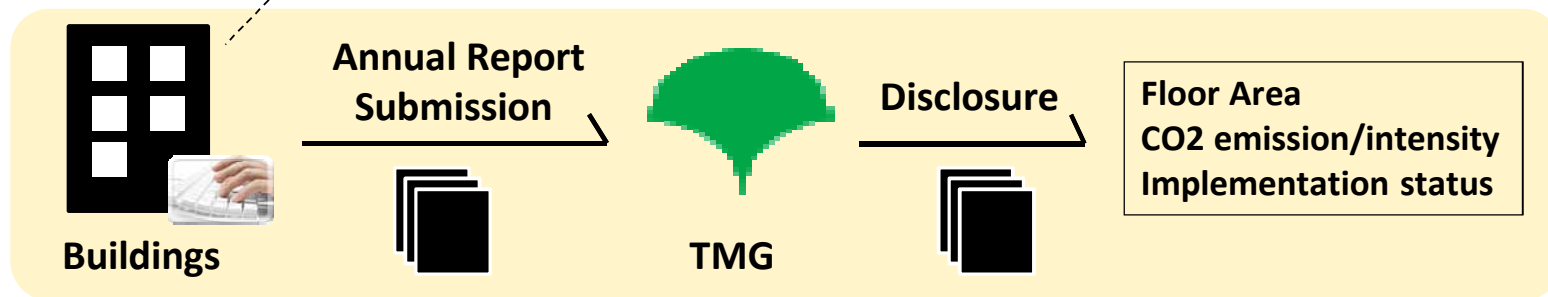
- Tokyo Metropolitan Government (TMG) has operated Carbon Reduction Reporting Program for mid-small scale buildings, which aims to enhance mitigation actions.
- The program asks buildings to monitor and report their CO2 emission as well as mitigation actions taken by owners and/or tenants.

1. Energy Consumption and CO2 Emission in Previous FY

- Calculate CO2 emissions from previous FY's fuel, energy, electricity, water and sewerage use

2. Mitigation Actions Taken in Previous FY

- Choose measures taken from 255 option menu which has been categorized by TMG



Continuous Efforts on the Global Warming Measures

- Realize continuous understanding/management of energy consumption
- Continuous efforts and improvement on the global warming measures

CO2 Emission Reduction (10% reduction has achieved)

LCS implementation: Transfer Knowledge from Tokyo to Malaysia

- Collaborative team comprised by UTM (University Technology Malaysia)/TMG (Tokyo Metropolitan Government)/AIM transfers the building monitoring and reporting program which initiated by TMG.
- We works together with Putrajaya Corporation (PJC) and Iskandar Region Development Authority (IRDA).
- Trainings, workshops and intensive discussions many times among both cities' staffs, TMG's staffs and experts have been conducted so far.

Training in TMG



Training in TMG



Site Visit in Putrajaya building



Workshop in Iskandar Malaysia



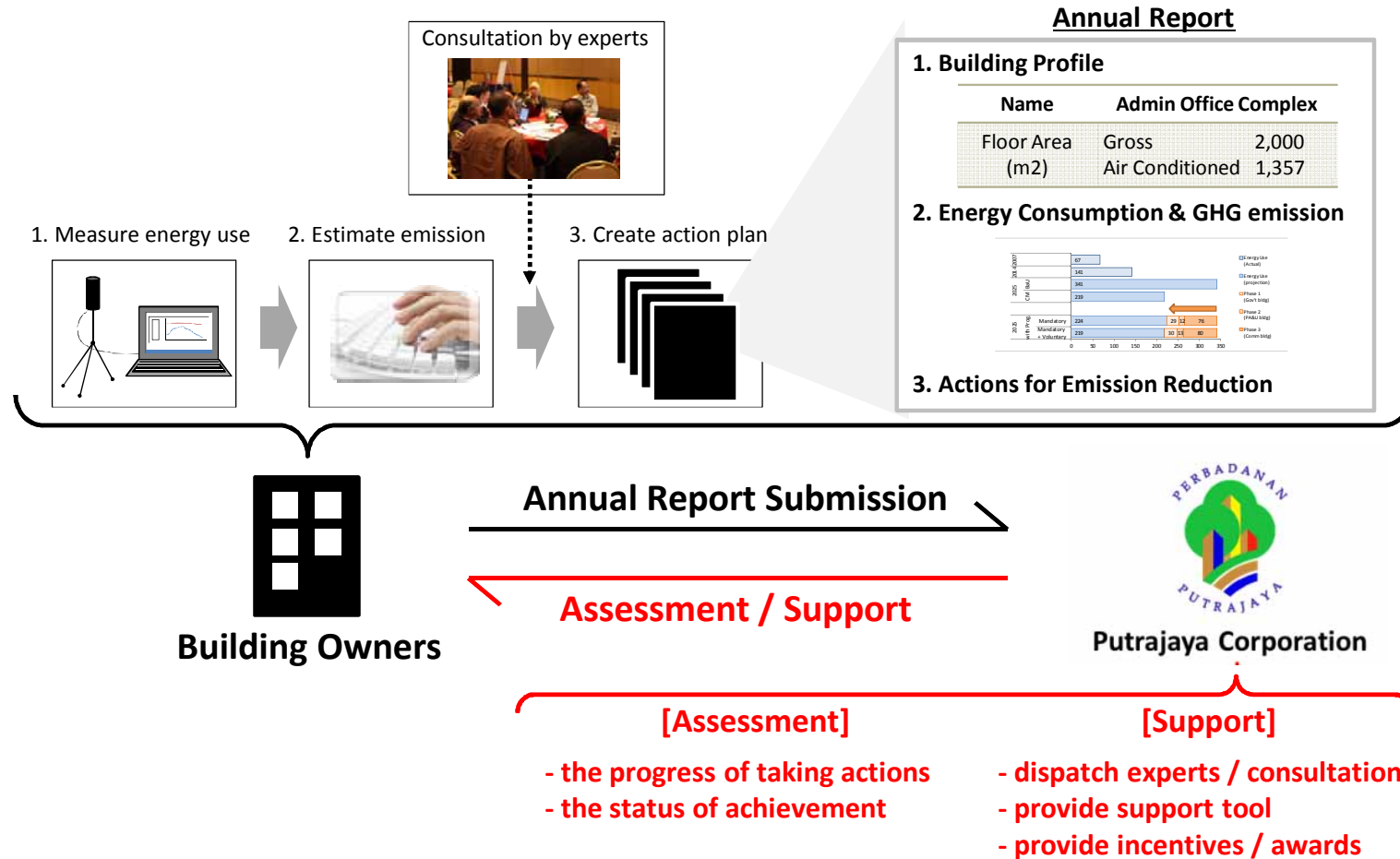
Discussion in PJC



Proposed Scheme (1/2)

Putrajaya

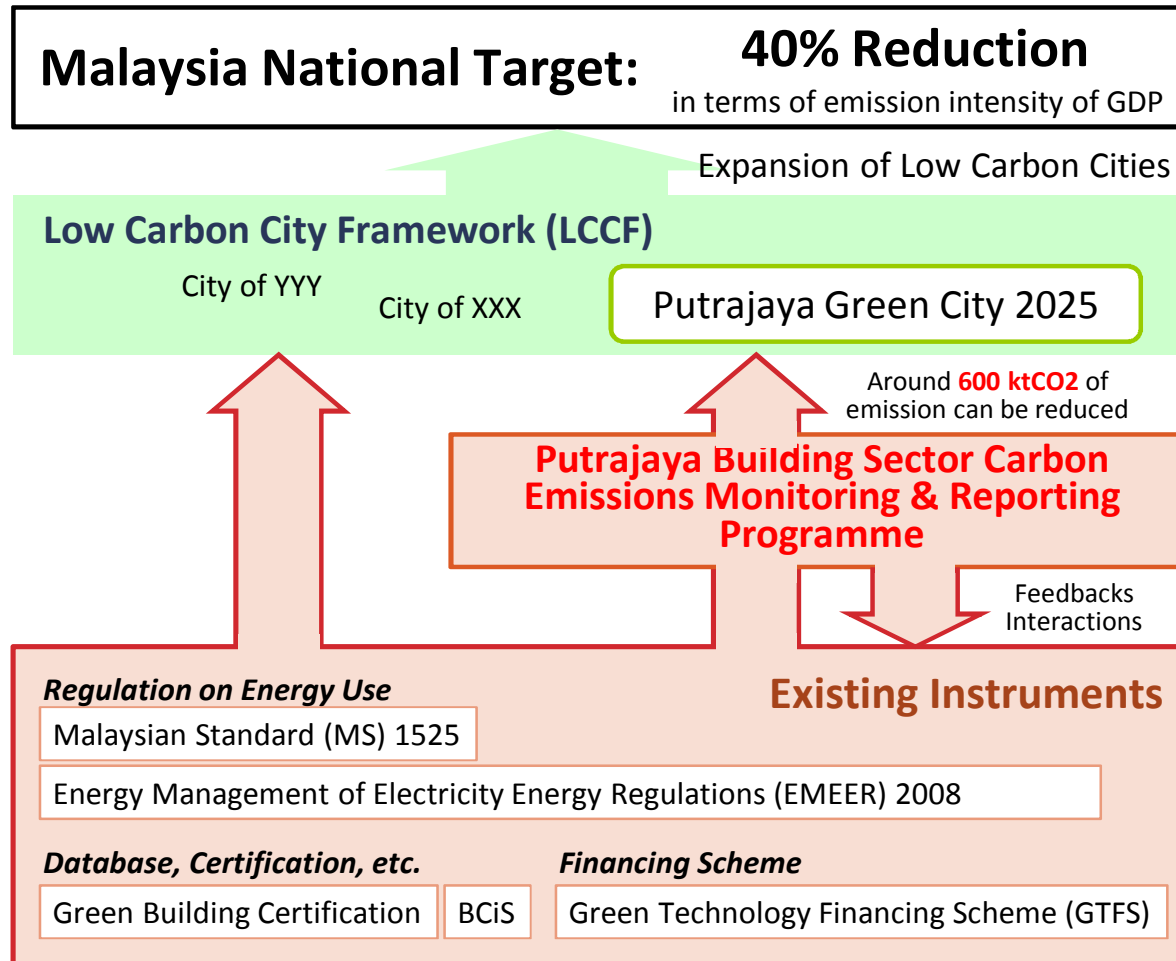
- Buildings are required to submit report including energy consumption, GHG emission and action plan for reducing their emission.
- The participating entities can receive feedbacks and support from the authority.



Proposed Scheme (2/2)

Putrajaya

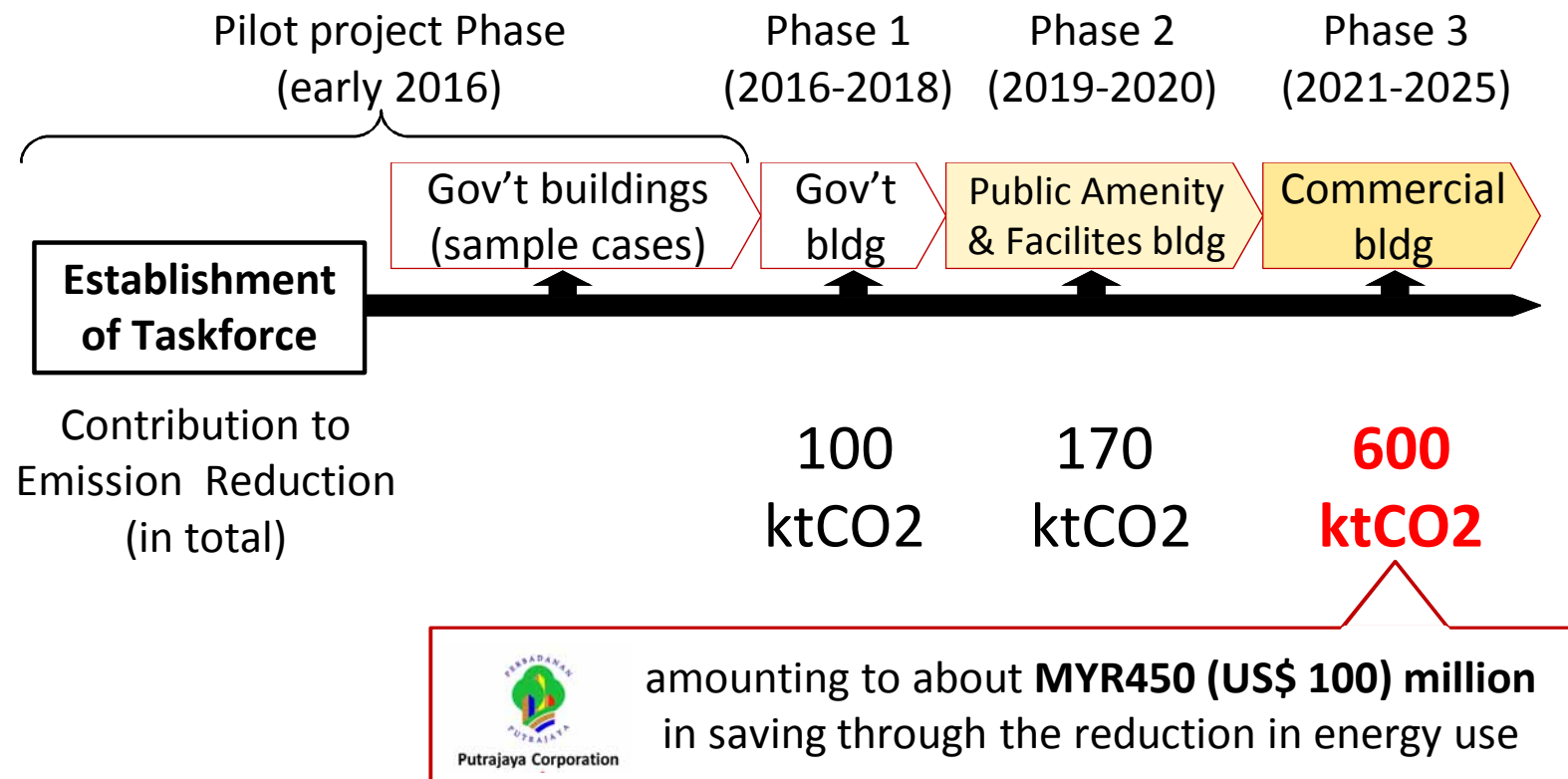
- The proposed scheme is an additional instrument to enhance the function of existing instruments for enhancing low carbon cities in Malaysia.



Expected Impacts of the Programme

Putrajaya

- In order to introduce the programme smoothly, the target buildings shall be expanded gradually.
- Expected impacts are estimated according to Putrajaya Green City 2025. (abt 600 ktCO2 emission reduction at maximum; amounting to abt MYR 450 (US\$ 100) million in saving through the reduction in energy use.)



City Networking

G7 Toyama Environment Ministers' Meeting Parallel Session

The Role of Cities

May 15, 2016, Toyama, Japan



Speakers:

City of Firenze, **Italy**

City of Vancouver, **Canada**

City of Vitry-le-François, **France**

City of Bristol, **United Kingdom**

100RC, GEF, ICLEI,

Promotion Committee for the “Future City” Initiative

City of Frankfurt am Main, **Germany**

City of Higashimatsushima, **Japan**

City of Kitakyushu, **Japan**

City of Toyama, **Japan**

Co-chairs:

Mr. Masashi Mori Mayor, Toyama City, Japan

Prof. Hironori Hamanaka Chair, Board of Directors, IGES

The Role of Cities –

Key Messages from G7 Toyama Environment Ministers' Meeting Parallel Session

Wednesday 13 July, ISAP2016, Pacifico Yokohama



**Press release
on 15 May**

Vitry-le-Francois
Higashi-matsushima
Vancouver
GEF
100RC
Frankfurt am Main
Bristol
Toyama
IGES
MoEJ
Firenze

**Morning session, 16 May
brief to Ministers**

This is the first time for group of Mayors directly to brief to G7 Environmental Ministers' Meeting.

Main messages from Co-Chairs' summary

- *Recognizing, supporting and showcasing the advanced efforts by leading cities making the transition to sustainable societies*
- *Promoting networks of leading cities and encouraging successive cities to be involved*
- *Mainstreaming the role of cities*

Co-Chair's summary will be shared at any other appropriate opportunities, such as the 2nd United Nations Environment Assembly on May 23-27, 2016 in Nairobi, HABITAT III on 17-20 October 2016 in Quito and its preparatory processes.

All materials can be downloaded from the following website;
<http://www.iges.or.jp/en/pmo/20160515.html>



MOU Signing Ceremony at Toyama City Hall (from left to right: Dr. Fujino and Prof. Hamanaka, IGES, Mayor Mori, Toyama City; Ms. Yee, Dr. Runzo-Inada and Mr. Horng Dar Lim, 100RC)

May 15th 2016, Toyama

Announcement

IGES and Rockefeller Foundation Sign Memorandum of Understanding on the Sidelines of the G7 Environment Ministers' Meeting in Toyama, Japan

31 May 2016

The honourable Mayor of Toyama City, Masashi Mori, hosted a signing ceremony at City Hall to formalise a collaboration agreement between the Institute for Global Environmental Strategies (IGES) and 100 Resilient Cities –

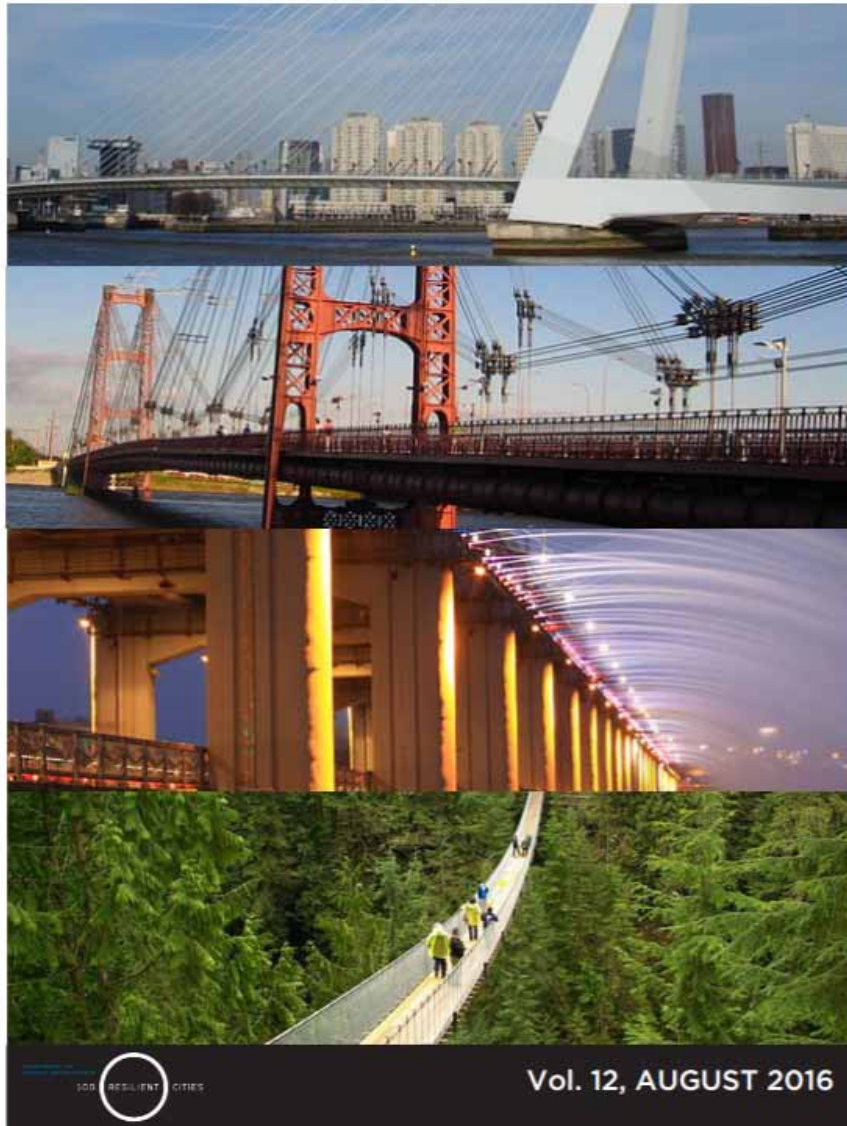


Table of Contents

- 3 From the City and Practice Management Team
- 4 City Updates
- 5 Medellin Strategy Release
- 7 Resilience Officer-in-Chief?
- 8 Future Cities Accelerator | Guess the City
- 9 From Around the Network
 - New Orleans
 - Rotterdam
- 11 Institutionalization and Implementation
 - Semarang**
 - Melbourne
- 14 10ORC Platform Partner Update
- 16 Resilience in the News

On the cover, from top: Erasmus Brug, Rotterdam (F.Eveleens/Wikimedia Commons); Puente Colgante, Santa Fe (Giulianaesmeralda, Wikimedia Commons); Jamsil Bridge, Seoul (Photo and Share CC/Flickr); Capilano Bridge, Vancouver (David J Laporte/Flickr).

Institutionalization and Implementation

Semarang

Kick-Off Workshop for Co-Benefit Study in Transportation Sector



The Kick-Off Workshop for the Co-Benefit Study in the Transportation Sector for Semarang was held on July 28th, 2016 at the Grand Edge Hotel. The meeting was the initial workshop for the strategy implementation phase of Semarang's resilience-building program. It was attended by 29 participants from local governments, academia, non-governmental organizations (NGOs), the Institute for Global Environmental Strategies (IGES)-Japan, and the Asian Institute of Technology (AIT)- Thailand, as well as community members. The workshop was designed to enhance communication and cooperation with local stakeholders as part of the preparations for the implementation of Semarang's Resilience Strategy.

Semarang released its Resilience Strategy on May 23rd, 2016. Integrated mobility is one of the six strategic pillars underpinning Semarang's strategy. To implement the integrated mobility pillar, Semarang is seeking to make public transportation facilities more compatible with the

needs of disabled people as well as environmentally sustainable. The Ministry of the Environment, Japan (MOEJ) is funding a study as the first step towards achieving this goal. (*Continues on next page*)

Below: Dr. Junichi Fujino, IGES Japan





**A4. “Better City-to-City Cooperation” session
at 7th High Level Seminar on
Environmentally Sustainable Cities
4th March, 2016 in Hanoi**



**8th seminar
Will be held in
Thailand,
March 2017**

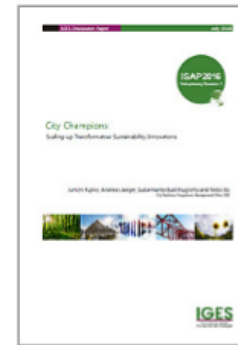
City Champions: Leveling and Scaling-up Transformative Sustainability Innovations

The operationalisation of Sustainable Development Goal 11 (Sep 2015), the signing of the Paris Agreement (Dec 2015) and the formulation of a New Urban Agenda under Habitat III (Oct 2016) are helping to place urban sustainability centre stage in 2016.

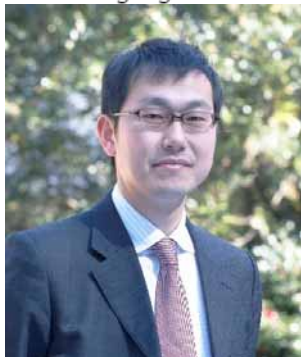
High rates of urbanisation as well as financial stresses and human resource constraints are amongst the major challenges cities in the Asia-Pacific region face. On the other hand, the decentralisation of government functions is empowering a new generation of city leaders to access creative finance, emulate good practices and achieve leapfrog development by means of low-carbon technology. The Parallel Session seeks to:

1. Showcase and inspire cities to develop new / adopt existing solutions to key sustainability challenges through the introduction of good practices from leading cities.
2. Illustrate how intercity learning approaches can be leveled and scaled up, by showcasing a successful partnership.
3. Highlight how new training programmes to globally disseminate leading urban initiatives can connect

ISAP2017 will be held in Yokohama, July 2017



»Download (773KB)



Moderator



IGES Urban



WB Tokyo



Bangkok



Yokohama



FutureCity



Low Carbon Asia Research Network



Toshihiko
MASUI
Japan



Junichi FUJINO
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Mikiko
KAIMUMA
Japan



Tae yong JUNG
ROK



Ucok Wrsiagian
Indonesia



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Nguyen Tung Lam
Vietnam

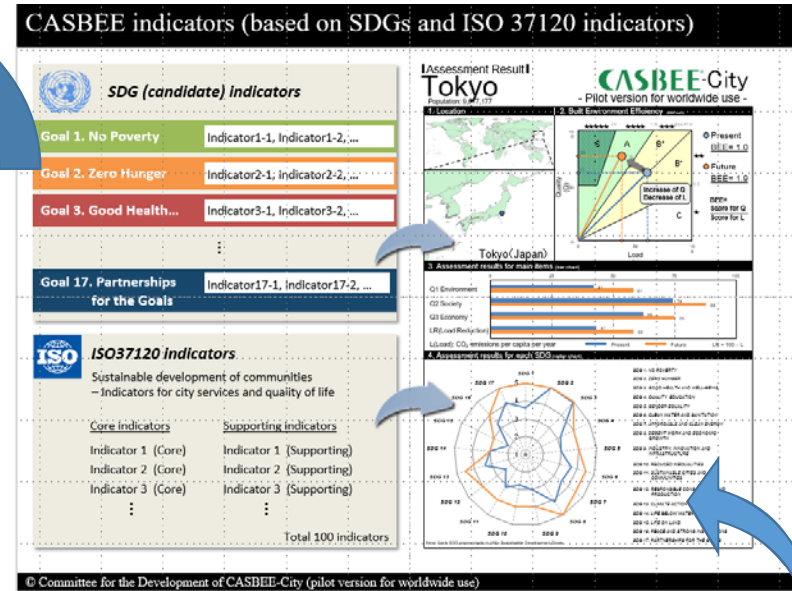


Next LoCARNet
Workshop
In Bandung,
25-26 October!

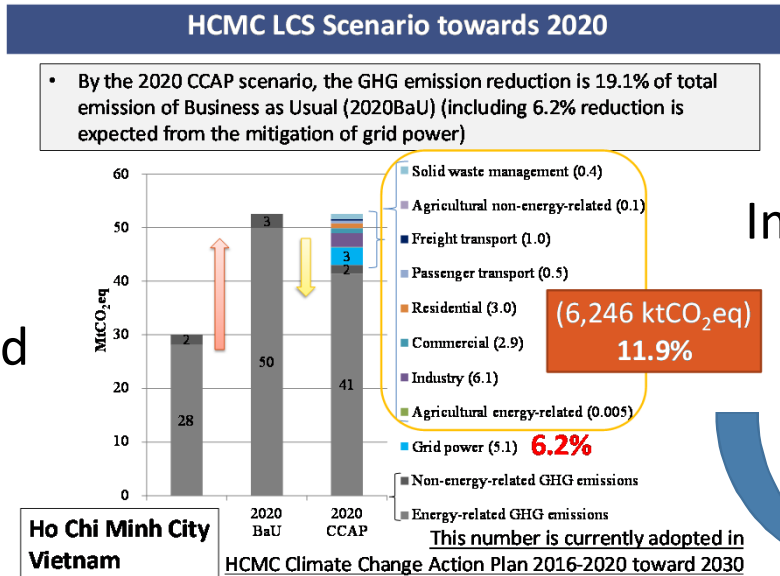
LCS scenarios in Asia



City
Diagnosis
by Q and L
using
CASBEE



Identify
GHG
Reduction
Potential and
Necessary
Actions



Transfer
Implementation
Know-how
To Asia

LCS implementation: Transfer Knowledge from Tokyo to Malaysia

- Collaborative team comprised by UTM (University Technology Malaysia)/TMG (Tokyo Metropolitan Government)/AIM transfers the building monitoring and reporting program which initiated by TMG.
- We work together with Putrajaya Corporation (PIC) and Iskandar Region Development Authority (IRDA).
- Trainings, workshops and intensive discussions many times among both cities' staffs, TMG's staffs and experts have been conducted so far.



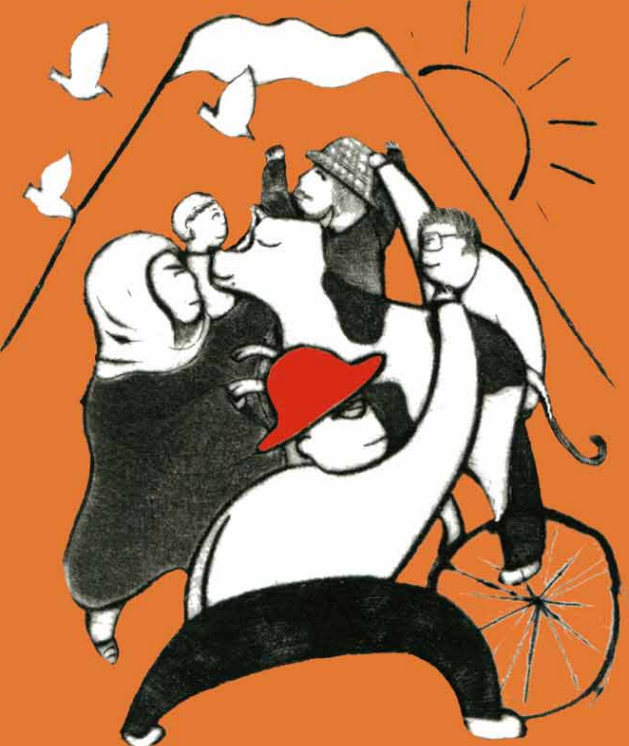


2030 Agenda, Sep 2015


Create
applicable
show-case
and scale up!

Like star wars,
explore more
masters and
train LCS/SDGs
knights!

Asia LCS



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