

# Overall Activity of Low Carbon Society Research Project

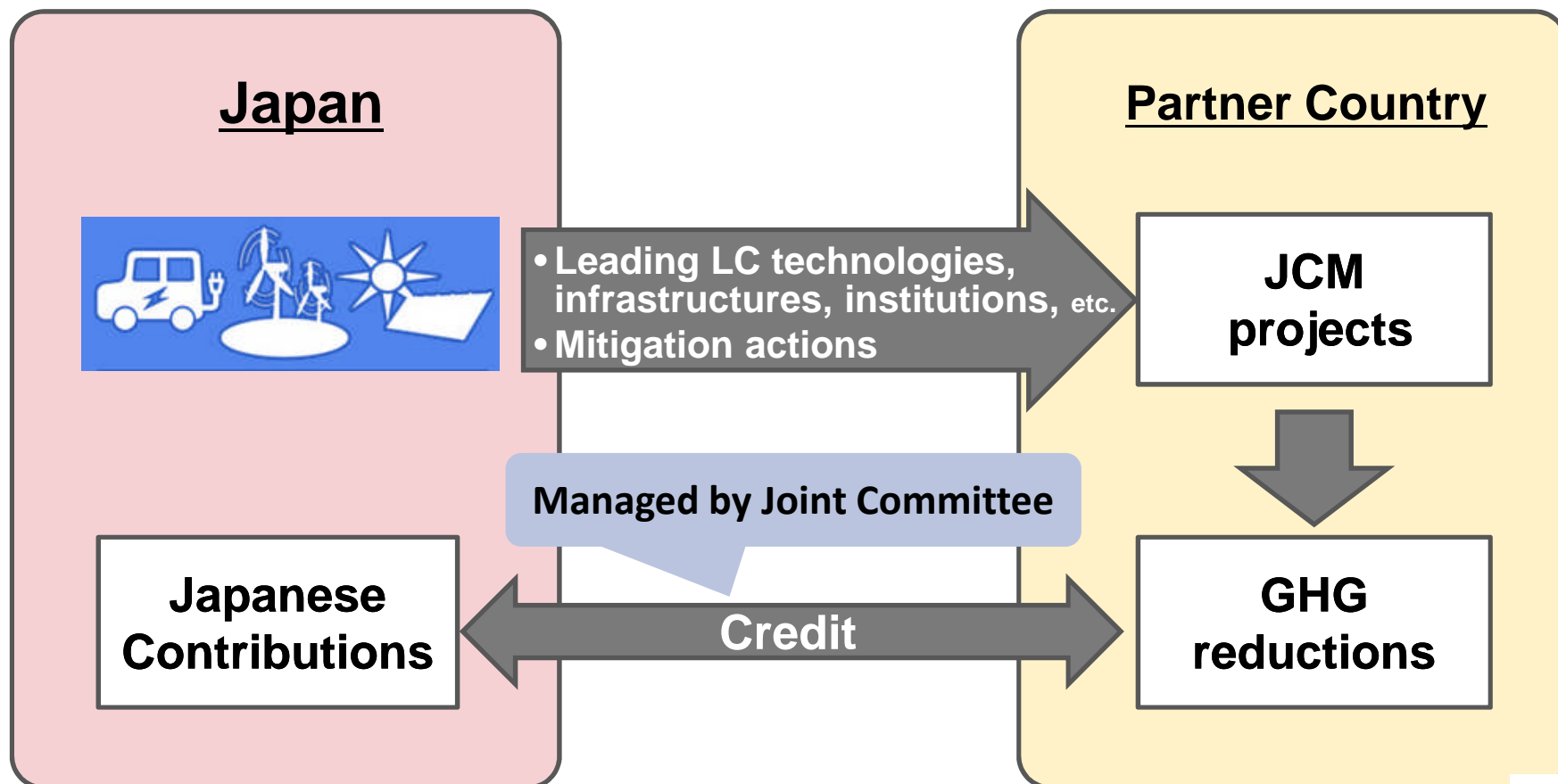
13<sup>th</sup> November, 2015

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The 21<sup>st</sup> AIM International Workshop @ Ohya Memorial Hall, NIES, Tsukuba

# Concept of the Joint Crediting Mechanism (JCM)

- JCM aims to facilitate global actions for emission reductions and contributes to sustainable development in developing countries.
- Contribution to GHG reductions through performing JCM projects will be used to achieve Japan's emission reduction target.



# JCM Partner Countries

- Japan has established the JCM with 15 countries (Mongolia, Bangladesh, Ethiopia, Kenya, Maldives, Vietnam, Lao PDR, Indonesia, Costa Rica, Palau, Cambodia, Mexico, Saudi Arabia, Chile and Myanmar), and seven JCM projects have been registered.



Mongolia  
Jan. 8, 2013  
(Ulaanbaatar)



Bangladesh  
Mar. 19, 2013  
(Dhaka)



Ethiopia  
May 27, 2013  
(Addis Ababa)



Kenya  
Jun. 12, 2013  
(Nairobi)



Maldives  
Jun. 29, 2013  
(Okinawa)



Viet Nam  
Jul. 2, 2013  
(Hanoi)



Lao PDR  
Aug. 7, 2013  
(Vientiane)



Indonesia  
Aug. 26, 2013  
(Jakarta)



Costa Rica  
Dec. 9, 2013  
(Tokyo)



Palau  
Jan. 13, 2014  
(Ngerulmud)



Cambodia  
Apr. 11, 2014  
(Phnom Penh)



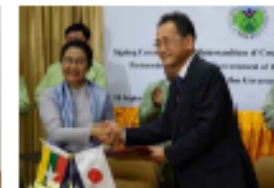
Mexico  
Jul. 25, 2014  
(Mexico City)



Saudi Arabia  
May 13, 2015



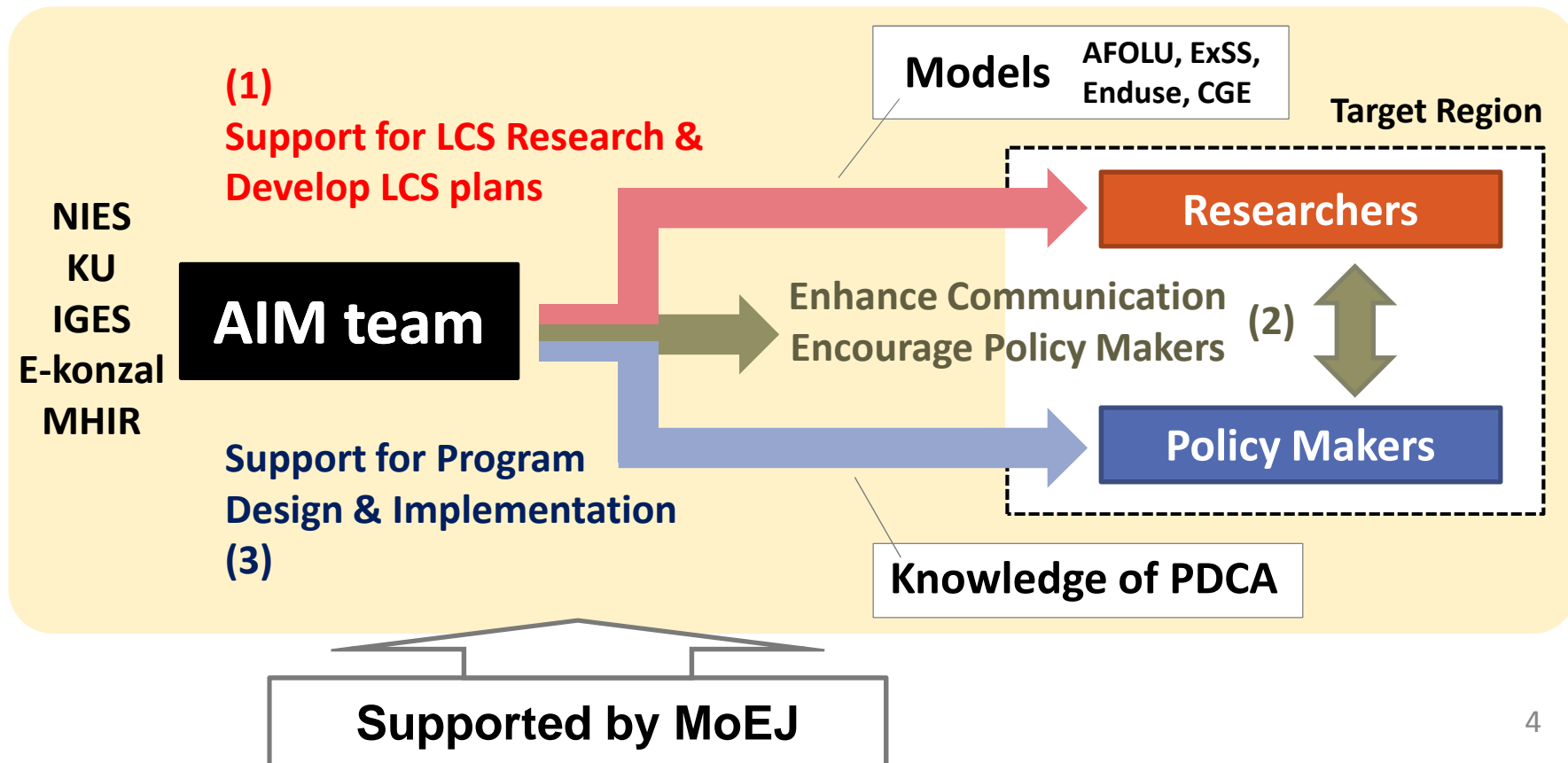
Chile  
May 26, 2015  
(Santiago)



Myanmar  
Sep. 16, 2015  
(Nay Pyi Taw)

# Low Carbon Society Research (LCSR) Project

- LCSR project is funded by Ministry of the Environment Japan (MoEJ), and expected to provide useful information to create JCM projects in Asian region.
- AIM team assists researchers to develop national/city-level LCS plans and roadmaps (1), and encourages policy makers to develop LCS plans (2).
- AIM team is supporting researchers and policy makers to introduce practical programs and implementation arrangement for mitigation actions in each region (3).



# LCS Scenarios and Plans in Asia 1/2

- Quantitative scenario approach with AIM has been applied to more than 20 regions in Asia, and LCS plans and roadmaps are developed for each region.
- In FY 2015 (Apr. 2015 – Mar. 2016), main target regions for development of LCS plans are Thailand, Indonesia and cities in Vietnam (Ho Chi Minh, Hai Phong and Da Nang).

[http://2050.nies.go.jp/LCS/index\\_j.html](http://2050.nies.go.jp/LCS/index_j.html)

**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 Society Scenarios VIETNAM 2030**

**Low Carbon Scenarios for Ho Chi Minh City, Vietnam 2030**

**Low Carbon Society Vision 2030 Thailand**

**Roadmap to Low Carbon Thailand towards 2050**

**Low Carbon Development Strategy for Cambodia toward 2050**

**Low Carbon Society Scenario Toward 2050 INDONESIA Energy Sector**

**Indonesia End-Use Scenario 2050**

Legend:  
● Country Scenario  
■ Local Scenario

[Scenario list](#)



# LCS Scenarios and Plans in Asia 2/2

- The following table shows the outcome of the LCSR project in each country so far and its contribution on climate change policy.

Target Region	Description
Indonesia	<ul style="list-style-type: none"> <li>C/P researchers : <b>Prof. Rizaldi (IPB), Dr. Ucok and Dr. Retno (ITB)</b></li> <li><b>National scale LCS policy</b> including not only energy sector but also agriculture, land use change, etc. has developed. <u>They are evaluating existing climate change action plans, i.e. RAN GRK and INDC by AIM.</u></li> </ul>
Thailand	<ul style="list-style-type: none"> <li>C/P researchers : <b>Prof. Bundit (SIIT-TU) and Prof. Shrestha (AITM)</b></li> <li>The team developed LC Roadmap towards 2050 and performed intensive dialogues with policy makers. <u>The outcomes of their LCS study contribute to the process for investigation of Thailand NAMAs and INDC.</u></li> </ul>
Vietnam / Ho Chi Minh City	<ul style="list-style-type: none"> <li>C/P researchers : <b>Dr. Lam (ISPONRE)</b></li> <li>LCS scenario towards 2030 including sectors of waste, agriculture and land use as well as energy was developed. Activity nowadays is to develop climate change action plan (CCAP) in individual cities. <u>The outcome of LCS study towards 2030 in in HCMC is utilized in the process of making CCAP for HCMC.</u> Our activity is expanding other cities such as Da Nang and Hai Phong.</li> </ul>
Cambodia	<ul style="list-style-type: none"> <li>C/P researchers : <b>Dr. Mao (MoEC)</b></li> <li>LCS study towards 2050 was completed and published.</li> </ul>
Malaysia	<ul style="list-style-type: none"> <li>C/P researchers : <b>Prof. Ho (UTM)</b></li> <li>Main focus of current activity is implementation of LCS policy.</li> </ul>

# Policy Dialogues

- In order to encourage policy makers in target region, LCSR project has assisted to have policy dialogues.
- Policy dialogue is a good opportunity to show policy makers the necessity of LCS plans and methodology to create LCS plan, and exchange opinions and information about LCS between policy makers and researchers.
- We will have a side event at COP21 which shows AIM activities and the contributions on making low carbon Asia.

Policy Dialogue in Thailand @ Oct. 2014



Policy Dialogue in Indonesia @ Nov. 2014



Policy Dialogue in Cambodia @ Feb. 2015

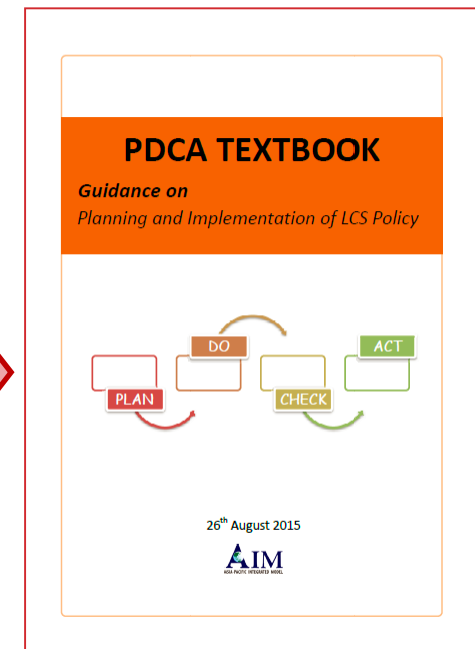
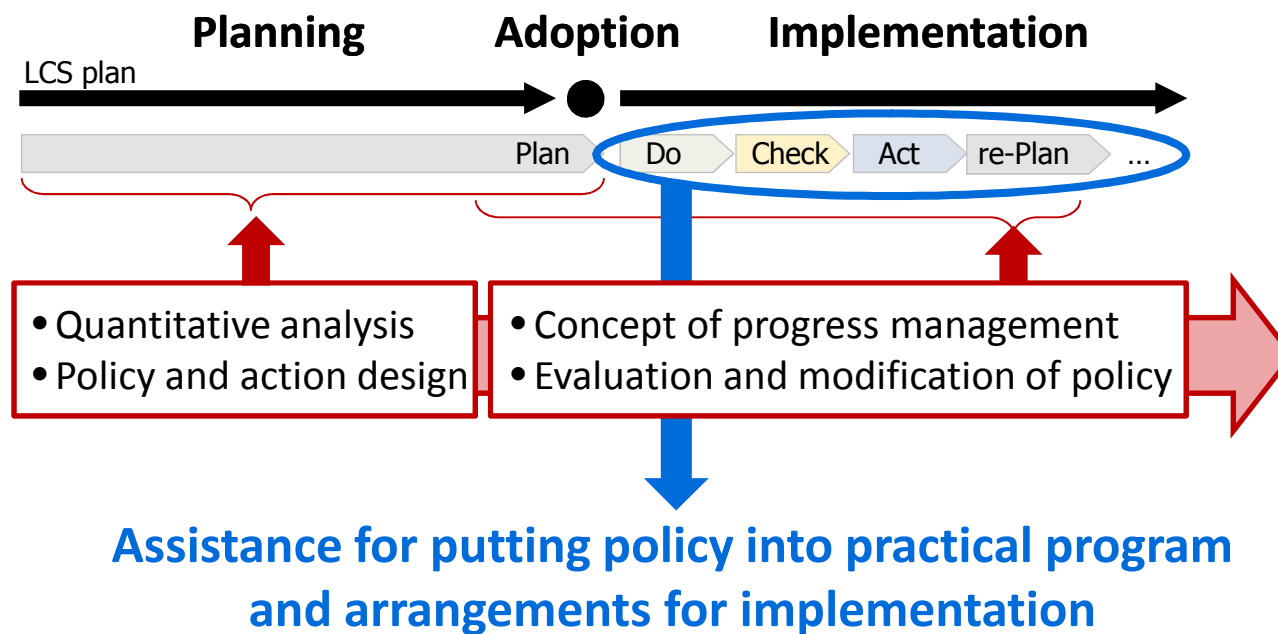


Policy Dialogue in HCMC @ Oct. 2015



# Program Design & Implementation 1/2

- An iterative management procedure with continuous improvement in the process of planning and implementing the LCS policy are required to accomplish LCS.
- AIM team is making a document which explains PDCA process of LCS policy such as methodology for planning, enabling environment for implementation, monitoring, evaluating and reviewing. Expected user is policy makers and researchers.
- AIM team is trying to assist to put LCS policy into practical programs and arrangements for implementation.



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# Program Design & Implementation 2/2

- AIM team is trying to transfer an advanced scheme of emissions reduction which has been implemented by Tokyo Metropolitan Government (TMG). Especially, TMG has massive experiences on emission reduction from buildings.
- We works together with Putrajaya Corporation (PJC) and Iskandar Region Development Authority (IRDA) to introduce a reporting program in these cities.

## Ex) Activity in City of Putrajaya

### Tokyo's Experience:

- TMG created and have operated "Carbon Reporting Program for Medium and Small Sized Facilities".
- Collect reports from buildings about their emissions and energy usage
- Provide building owners with advices about energy saving measures

**TMG succeeded in reducing its emissions!!**



### City of Putrajaya

- Putrajaya launched its LCS plan "Putrajaya Green City 2025".
- PJC published their proposal of a new scheme of energy consumption and emission reduction in buildings at COP20.
- Task force was established to consider a new reporting program targeted building sector and begun investigation.



## Final Remarks

- JCM aims to facilitate actions for emission reductions and contribute to sustainable development in developing countries.
- AIM team have assisted development of national/city-level LCS plans and roadmaps, and encourages policy makers to develop LCS plans through LCSR project.
- LCS plans developed by using AIM are utilized in the process of national or city level climate change policy such as NAMAs, INDC and CCAP, etc. in several Asian countries and cities.
- Implementation of LCS plan is another important topic in LCS development. AIM team is developing a document which explains PDCA process in LCS policy. AIM team is also trying to assist to put LCS policy into practical programs and arrangements for implementation in Malaysia.

Thank you for your attention

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