

COP18 Side Event @ Doha | Friday, 30th November 2012
Low Carbon Actions in Asia – Modeling to Bridge Science to Policy

Knowledge-based Investment in Low Carbon Infrastructure

- JICA Support for Global Low Carbon Growth -



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Background

(Japan's Bilateral Climate-related Aid in 2010)

Japan was the largest donor in the climate change field among OECD DAC donors in 2010.

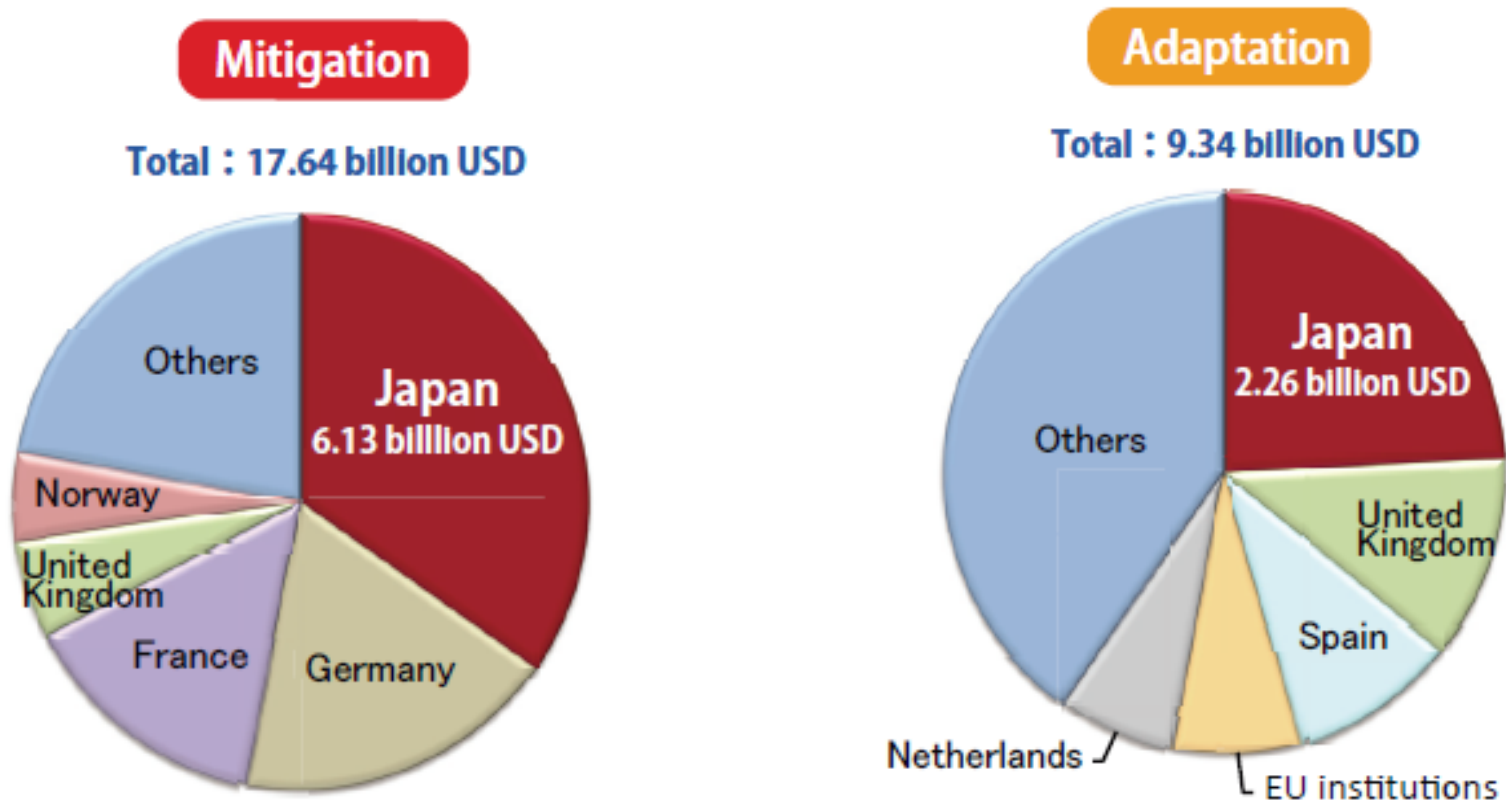
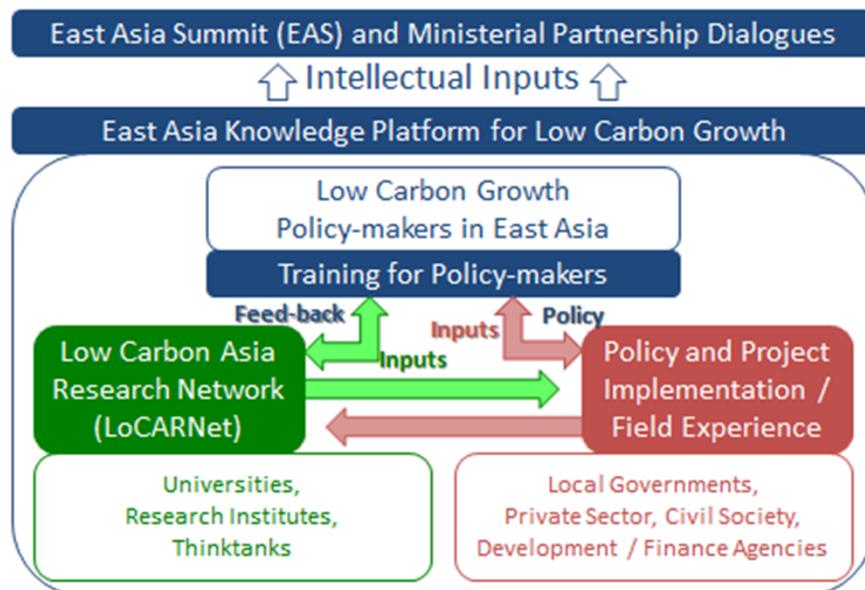


Figure: Bilateral climate change-related aid in 2010 (Source: OECD DAC Statistics 2011)

1. Creating Regional Low Carbon Knowledge Hub (active learning & pooling of research findings and past experiences)



East Asia Knowledge Platform for Low Carbon Growth
(concept)



<http://www.iges.or.jp/en/cp/activity20120414.html>

East Asia

- One-day Ministerial Dialogue on *low carbon growth in East Asia* in April 2012 in Tokyo / JICA, NIES and IGES introduced the concept “*East Asia Knowledge Platform for Low Carbon Growth*”
- Dialogue held in the context of the *East Asia Summit (EAS)*



- Shaping international framework (reducing uncertainty, e.g. REDD+)
- Coping with rapid urbanization and motorization
- Appropriate utilization of market mechanism

2. Localizing Low Carbon Knowledge

(promoting partnership for tailor-made solutions at municipality level)

Indonesia / Surabaya – Japan / Kitakyushu

- Joint statement by Kitakyushu and Surabaya on *strategic environmental partnership* (March 2011)
- City of Kitakyushu, utilizing JICA studies and other tools, introduced local technologies to Surabaya for green, low carbon growth (*water and waste management*, etc.).

City of Kitakyushu, Japan

- Established “Kitakyushu Asian Center for Low Carbon Societies” to transfer environmental technology to Asian countries for a “Asian low-carbon revolution”

Thailand / Bangkok - Japan / Yokohama

- Both cities announced ambitious GHG emission reduction targets.
- Yokohama has provided support to Bangkok officials in formulating low carbon policy using JICA cooperation framework (*mass transit, renewable and efficient energy, waste, expanding park areas*)

City of Yokohama, Japan

- Launched “Yokohama Smart City Project” to design and build “Next Generation Energy Infrastructure and Social System” to maximize GHG emission reduction

3. Formulating Knowledge-based Policy

(incorporating localized wisdom into decision making
- case of Vietnam energy efficiency policy actions)

Example of Policy Action Cycle (Energy Efficiency) from Climate Change Development Policy Loan to Vietnam

• Save 5-8% of the nationwide energy consumed 2011-2015

2009 Action
• Prepare the legislative framework

2010 Action
• Prepare the regulations to enforce the Law

2011 Action
• Research of financial mechanism

Introduction of Registered Energy Manager system

Introduction of Energy Labeling system

Strengthening data management

Knowledge on Effective Measures for Energy Efficiency (Experience in Japan)

Survey of local situation

Awareness raising of local actors

On-site review of factories

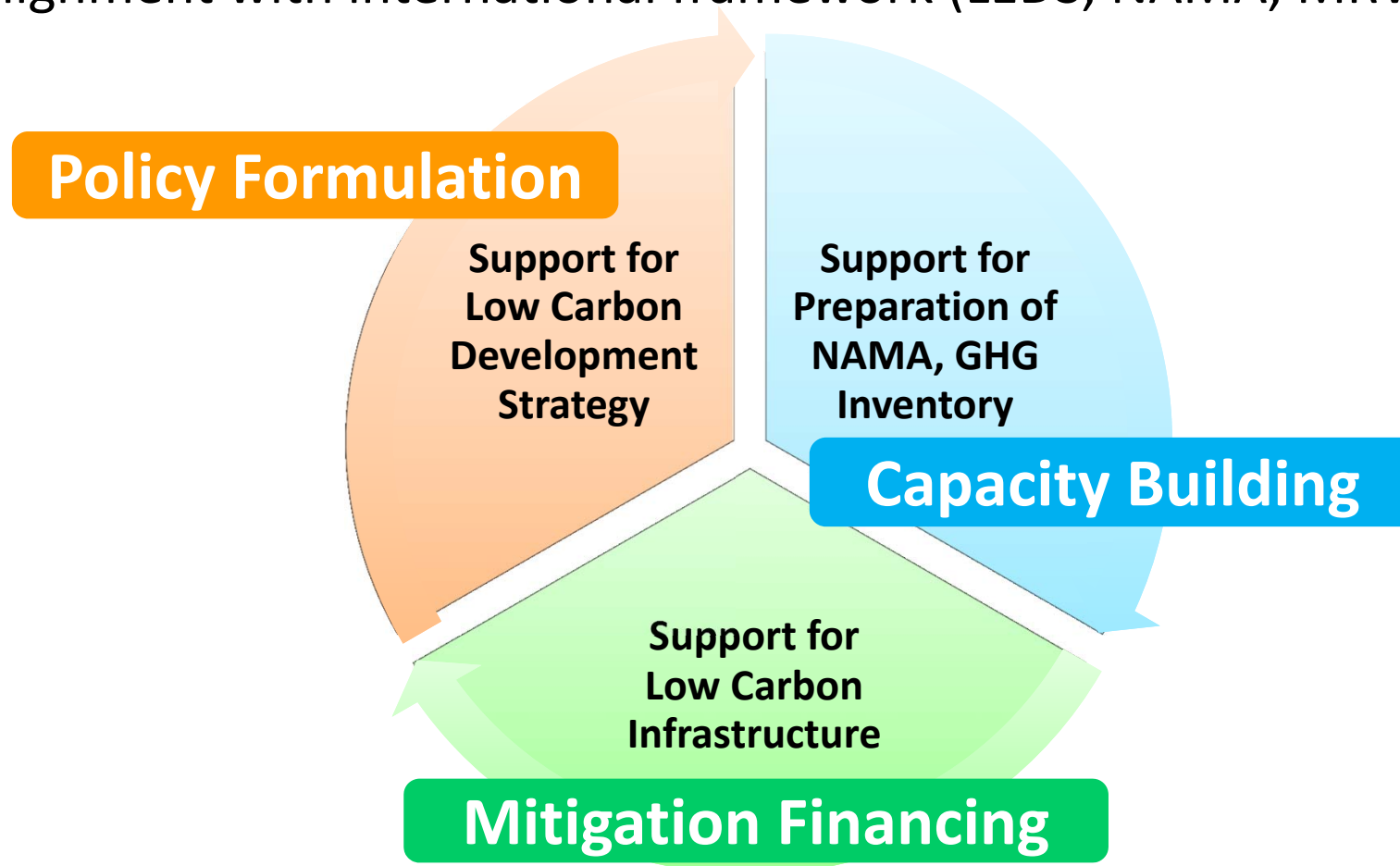
Training local experts in Japan

Localization of Effective Measures in the Vietnamese Context

4. Linking Low Carbon Policy with Investment

(comprehensive support framework by JICA)

- JICA handles most of Japan's bilateral climate related aid, offering comprehensive support using its technical & financial support in alignment with international framework (LEDS, NAMA, MRV, etc.)



5. Investing in Tangible Low Carbon Assets

(broad lineup of JICA support for infrastructure - case of India)

Urban Transport

Prime Minister
Dr. Manmohan Singh:
“Delhi Metro is a shining example of Japan-India partnership”



- ✓ JICA metro projects already in 4 cities (Delhi, Bangalore, Kolkatta, Chennai)
- ✓ Knowledge sharing by Tokyo Metro on operational safety
- ✓ Wide range of renewable technology eligible for financing thru IREDA
- ✓ Technical cooperation to transfer solar power technology to IREDA

Medium to long term finance provided through IREDA (Indian Renewable Energy Development Agency Limited.)

Renewable Energy



Energy Efficiency

Increasing energy access and efficiency by helping India construct a pro-poor power network

Recent ODA loan projects include:

- ✓ Rural electrification in southern and western India (accessing 3 million)
- ✓ Upgrading transmission and distribution system (urban and rural)
- ✓ “Energy Saving Equipment List” Locally available energy saving equipment
- ✓ Enhancing capacity of intermediary bank and raising awareness of SMEs

Supporting SMEs using Sustainable Finance thru SIDBI (Small Industries Development Bank of India)



Sustainable Finance

Clean
Technology
to
Support
Sustainable
Development

6. Engaging the Private Sector

(bridging the gap between business and sustainable development
- case of Indonesia geothermal energy)



- JICA discusses with the Government of Indonesia on private sector engagement policy in geothermal
- Regulatory environment is improved



- Private sector finance is crucial to develop geothermal, a low-carbon solution to Indonesia's power supply
- JICA listens to the private sector to identify barriers for participation



- Technical Cooperation for preparation of master-plans
- Concessional Loans for construction of high priority geothermal power plants
- Public funds not enough to develop the estimated 27,000 MW potential in Indonesia's geothermal power

7. Exploring Innovative Financing Approaches

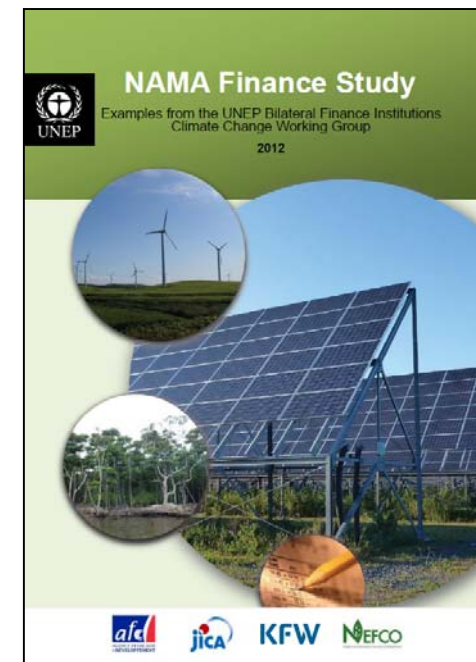
(coalition of leading development finance agencies)

➤ **UNEP BFIs Climate Change Working Group (UNEP BFIs CCWG)**

- Originated in January 2009. AFD (France), KFW (Germany), NEFCO (Nordic) and JICA (Japan) are the current members. UNEP is the facilitator.
- In 2010, the current UNEP BFI members provided around 14 billion USD in climate finance to developing countries – roughly equivalent to the amount from multilateral banks / agencies (Buchner et al. 2011).

➤ **Study on NAMAs Finance**

- As major contributors, BFIs CCWG published reports on climate finance mapping and specific themes (last year's theme: “innovative climate finance”).
- Given its significance to global mitigation, “NAMAs Finance” was chosen as this year's theme. A draft report was prepared for International Workshop on NAMA Finance, led by JICA with inputs from other BFIs.
- The report is based on technical analyses and is not intended to deliver political messages, such as the negotiation positions of relevant countries.



Prepared with Japan Weather Association

Direction of Low Carbon Cooperation by JICA

(June 2012 http://www.jica.go.jp/english/operations/climate_change/overview.html)

