Role of Japan-ASEAN Cooperation: Japan’s Adaptation Initiative

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Existing Japan-ASEAN Cooperation

- Dec. 2013  The ASEAN-JAPAN commemorative Summit Meeting
- ASEAN+3 Environmental Ministers Meeting
- ASEAN-JAPAN Dialogue on Environmental Cooperation
- Low Carbon Asia Research Network (LoCARNet)
- Asia-Pacific Network for Global Change Research (APN)
- Asia-Pacific Adaptation Network (APAN)
ASEAN ESC Model Cities Programme
Environmentally Sustainable Cities for regional collaboration
Established in 2009 on the initiative of the G8 Environment Ministers’ Meeting.

Composed of 7 countries and 16 research institutes.

Held 5 annual meetings in the past.

Has been conducting workshops in selected Asian countries/cities with NIES/AIM team.

During the course of these workshops, the growing importance of low-carbon growth in Asia was strongly recognised.

Proposed the establishment at ASEAN+3 EMM held in October 2011 in Cambodia.

Launched at the side-event of “East Asia Knowledge Platform for Low Carbon Growth” in April 2012.

Declaration of LoCARNet launch (April 2012, Tokyo)
Asia-Pacific Network for Global Change Research

- Inter-governmental Network of 22 member countries
- Funding Agency for Global Change Research

**International joint research**: 84 projects, 433 researchers (2009-2012)
**Scientific capacity building program**: 83 projects (2009-2014)

- Established in 1996, Secretariat in Kobe, Hyogo Prefecture
- Financial contribution support by Japan, USA, Republic of Korea and New Zealand

Flags of member countries:
- Australia
- Bangladesh
- Bhutan
- Cambodia
- China
- Fiji
- India
- Indonesia
- Japan
- Lao DPR
- Malaysia
- Mongolia
- Nepal
- New Zealand
- Pakistan
- Philippines
- Republic of Korea
- Russian Federation
- Sri Lanka
- Thailand
- USA
- Viet Nam

Logos and insignias of organizations:
- United States Global Change Research Program
- Ministry for the Environment
- Ministry of Environment
- NSF
Climate change has caused impacts on natural and human systems on all continents and across the oceans. There are risks resulting from sea level rise, storm surge in coastal areas, and inland flooding in urban regions.

Japan will bring together the knowledge of the private sector, government and academia, and consistently assist developing countries’ adaptation actions both in terms of their plans and implementation.

**Assistance to Developing Countries in the field of Adaptation**

(Approx. 2.3 billion USD from Jan. 2013 to Jun. 2014)

**Adaptation Policy Planning**
Assist the mainstreaming of adaptation through formulation of national/local adaptation plans in developing countries vulnerable to climate change, based on Japan’s experience in formulating its National Adaptation Plan to be published in the summer of 2015.

**Implementing Adaptation Measures**
Assist various adaptation measures against climate change risks from extreme weather events and slow onset events.
- Water Resource/Disaster Risk Reduction
- Natural Environment/Biodiversity etc.

**Vulnerabilities particular to small island states**
Provide comprehensive assistance by sharing Japan’s experience and knowledge and providing necessary equipment.
- Wide-area capacity development for climate change and natural disaster

**Disaster Risk Reduction**
Host the Third World Conference on Disaster Risk Reduction in Sendai, Japan in March 2015 and contribute to the formulation of the post-Hyogo Framework for Action (HFA2)
- Capacity development for DRR through both structural and non-structural measures
- Provision of swift assistance for recovery

**Applying Japan’s Technology for Adaptation Measures**
- Data, technologies, and knowledge related to climate change

**Human resources development of 5000** people in the field of adaptation in the next 3 years

*(as part of the pledge made by PM Abe for human resources development of 14,000 people in the next 3 years to address climate change)*
Steps towards National Adaptation Plan

Establish “Expert Committee on Climate Change Impact Assessment” at 114th Global Environmental Subcommittee, Central Environmental Council (2 July, 2013)

- Further detailed projection of climate change in Japan to monitor extreme events
- Assessment on climate change impacts in Japan
- Analysis on risk information

Summarize climate change impacts, risk assessment and future issues (around Feb, 2015)

- Extraction of priority areas/issues in short-term (~10 years), middle-term (10-30 years) and long-term (30-100 years)

Develop National adaptation plan as a government-wide integrated effort (summer, 2015)
Climate Change Projection (Regional Climate Model)

- Changes of annual mean temperature
- The amounts of temperature increases are relatively high in northern regions and relatively low in Okinawa/Amami region.

**Changes of annual mean temperature**
(SST1, YS)

<table>
<thead>
<tr>
<th>Region</th>
<th>RCP 2.6</th>
<th>RCP 6.0</th>
<th>RCP 8.5</th>
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<tbody>
<tr>
<td>National Average</td>
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<tr>
<td>Northern Pacific-side</td>
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<td>Western Pacific-side</td>
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<td>Western Japan-Sea-side</td>
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<tr>
<td>Okinawa/Amami</td>
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</tbody>
</table>

Column: Changes from present climate
(Blue: RCP2.6, Green: RCP6.0, Red: RCP8.5)

Error Bar: Standard deviation of interannual variation
(Error bar with no column: SD of present climate)

Distribution of changes of annual mean temperature (SST1, YS)
Japan’s experiences on its “NAP” establishment can contribute to developing “NAPs” in Asian countries.

**MOE-Japan**

1. **Climate Projection**
   - Analysis of 18 cases (RCP2.6/4.5/6.0/8.5)
   - GCM60
   - BCM20
   - Completed

2. **Impact Assessment**
   - Assessment under 5 WGs
   - Research project for IA
   - In Progress

3. **National Adaptation Plan**
   - NAP to be published due at around the summer in 2015
   - In Progress

**Asian countries**

- Climate Projection (country-basis)
- Impact Assessment (country-basis)
- National Adaptation Plan (country-basis)

**International**

- CMIP5 etc.
- IPCC AR5 etc.
Thank you for your attention!