

Environmental Issues and Challenges towards Sustainable Conservation in ASEAN

Dr. Raman Letchumanan Head of Environment Division, ASEAN Secretariat













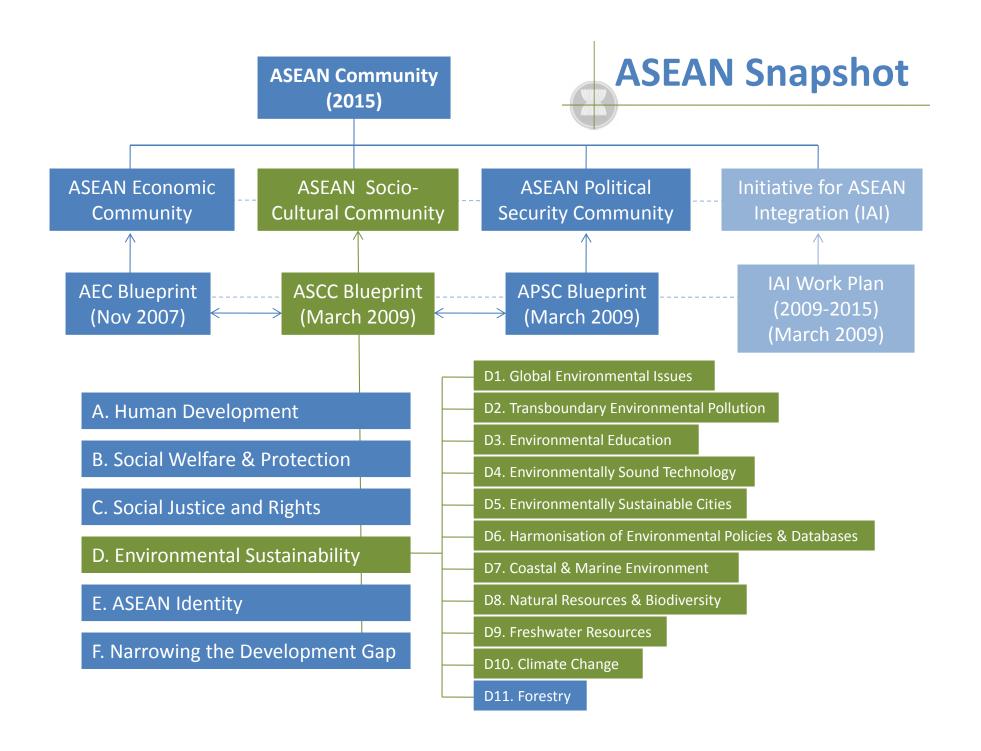




ASEAN at a Glance

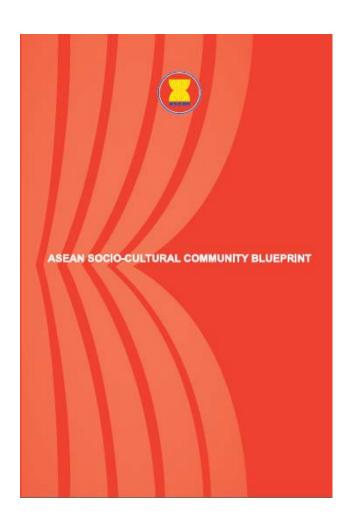
| Characteristics | Facts |
|---|--|
| Population | About 580 million people (2008) |
| Population density | 130 people per square kilometer (world average: 49 people per sq km) |
| Population in urban areas | 44% of region's total population ; projected to increase to 55% by 2020 |
| Coastlines | 173,000 km (14% of the world total) |
| Forest cover | 1,904,593 sq km (2007) |
| Mangrove | Over 52,000 sq km |
| Peatland | 25 million hectares (60% of global tropical peatlands) |
| Coral reefs | 34% of the world total |
| Poverty incidence (% of population living below respective national poverty line) | Cambodia (34.7 %), Indonesia (16.6 %), Lao PDR (32.7 %), Malaysia (3.6 %), Myanmar (26.6 %), the Philippines (30.0 %), Thailand (8.48 %), Viet Nam (14.75 %) |

Source: The Fourth ASEAN State of Environment Report, 2009



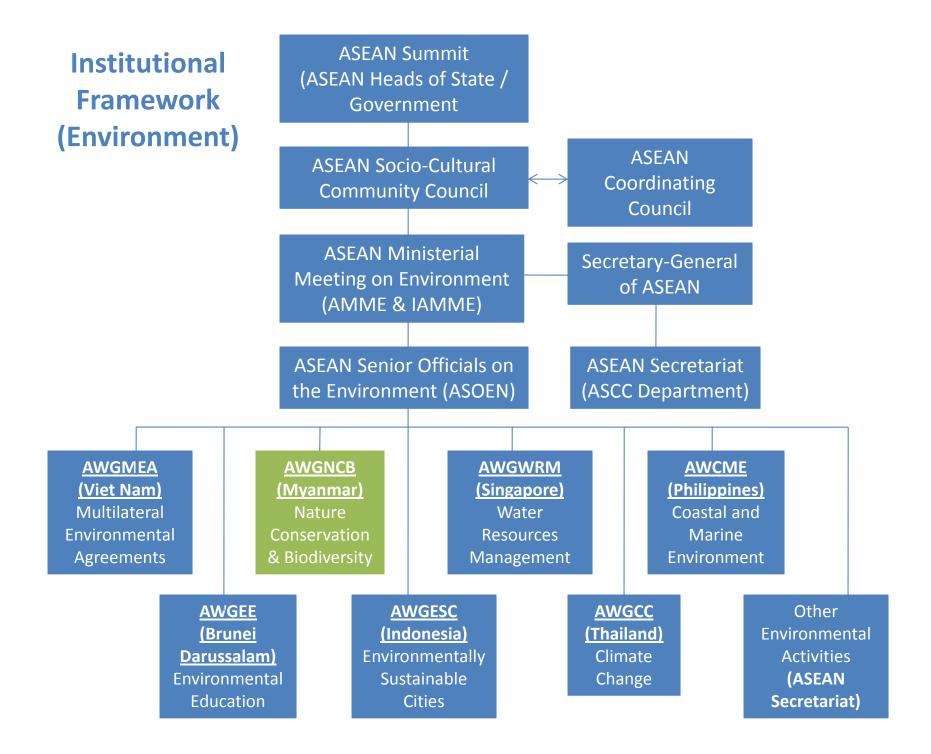
Chairman's Statement of the 14th ASEAN Summit

"We adopted the ASEAN Socio-Cultural Community (ASCC) Blueprint to serve as the roadmap to realise an ASEAN Community that is people-centred, socially responsible with a view to achieving solidarity, unity and a common identity and building a sharing and caring society which is inclusive and harmonious where the well-being, livelihood, and welfare of the peoples are enhanced. In view of this, we emphasised the importance **enhancing cooperation in** human of development; promoting social welfare, justice and rights; ensuring environmental sustainability; building the ASEAN identity and narrowing the development gap."

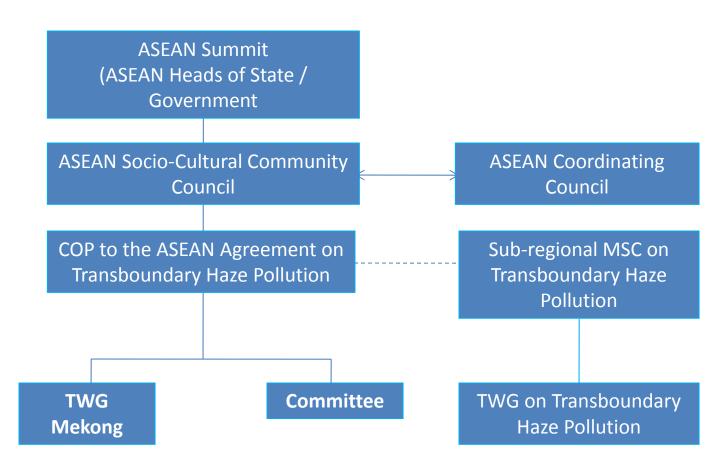


ASEAN Socio-Cultural Community Blueprint 2009-2015 Section D: Ensuring Environmental Sustainability

| Priority Areas | | Lead / Chair | Subsidiary Body |
|----------------|--|--|--------------------|
| D1. | Global Environmental Issues | Thailand | AWGMEA |
| D2. | Transboundary Environmental Pollution (Transboundary Haze Pollution & Hazardous Waste) | [separate institutional mechanism under AATHP] | |
| D3. | Environmental Education & Public Participation | Brunei Darussalam | AWGEE |
| D4. | Environmentally Sound Technologies | Malaysia | - |
| D5. | Urban Environmental Management & Governance | Indonesia | AWGESC |
| D6. | Harmonisation of Environmental Policies and Database | ASEC | - |
| D7. | Coastal and Marine Environment | Viet Nam | AWGCME |
| D8. | Sustainable Management of Natural Resources & Biodiversity | Thailand | AWGNCB |
| D9. | Freshwater Resources | Philippines | AWGWRM |
| D10. | Climate Change | Thailand | AWGCC |



Institutional Framework (AATHP)



- COP: Conference of the Parties
- TWG: Technical Working Group (southern region)
- TWG Mekong: Technical Working Group in Mekong Sub-region
- MSC: Ministerial Steering Committee

A Clean and Green ASEAN

The ASEAN Leaders view the protection of the environment and the sustainable use and management of natural resources as essential to the long-term economic growth and social development of countries in the region. The ASEAN Vision 2020 calls for "a clean and green ASEAN" with fully established mechanisms to ensure the protection of the environment, sustainability of natural resources, and high quality of life of people in the region.

Three-Pronged Challenge facing ASEAN:

- Building an environmentally sustainable clean and green ASEAN Community;
- ii. Transforming the "green shoots" of growth in the face of the 2008 financial crisis into an economically resilient ASEAN anchored upon green growth; and
- iii. Nurturing the new ASEAN to be a people-centered organisation respecting and living in harmony with nature.

D8

Nature Conservation and Biodiversity

| ASEAN FACTS AND FIGURES | | | |
|---|--|--|--|
| Forest Cover | 2000: 2,089,742 square kilometres 2007: 1,904,593 square kilometres | | |
| Forest to Land Ratio | 2000: 46.8% 2007: 42.7% (World average: 30.3%) | | |
| Highest Forest Cover (2007) | Brunei Darussalam (76.0%), Malaysia (62.4%), Cambodia (55.3%) | | |
| Average Annual Forest Loss | Between 2000 and 2005: 1.35% Between 2000 and 2007: 1.11% (Global average: 0.16%) | | |
| Terrestrial Protected Areas (PA) (2008) | 588,434 square kilometres (13.2% of land area) Indonesia: 247,269 ha or 42% of ASEAN's total | | |
| Mega-diverse Countries | Indonesia, Malaysia, Philippines (of 17 countries globally) | | |
| Endemic Species (2008) | Amphibians (396), birds (734), butterflies (1,143), dragonflies (139) mammals (380), plants (23,226), reptiles (250) | | |

Source: The Fourth ASEAN State of Environment Report, 2009

SECTION D8 OF THE BLUEPRINT FOR THE ASEAN SOCIO-CULTURAL COMMUNITY (2009-2015)

D8. Promoting sustainable management of natural resources and biodiversity

Strategic Objective: Ensure ASEAN's rich biological diversity is conserved and sustainably managed toward enhancing social, economic and environmental well-being.

Actions:

- (i) Achieve by 2010, a significant reduction in the current rate of loss of biodiversity through implementing relevant national, regional and international programmes of work;
- (ii) Promote collaboration, sharing of lessons learnt on access and equitable sharing of genetic and biological resources by 2015;
- (iii) Promote further listing and coordinated management of ASEAN Heritage Parks as an effective platform for ecosystem-based protected areas management by 2015;

SECTION D8 OF THE BLUEPRINT FOR THE ASEAN SOCIO-CULTURAL COMMUNITY (2009-2015)

- (iv) Enhance cooperation in the management of transboundary protected areas between neighbouring ASEAN Member States;
- (v) Take appropriate measures to minimise impacts of transboundary movement of living modified organisms in accordance with the Cartagena Protocol on Biosafety by 2015;
- (vi) Establish a functional regional network to promote capacity building in developing inventory of the biological resources and biosafety measures of the ASEAN Region by 2015;
- (vii) Enhance the role and capacity of the ASEAN Centre for Biodiversity (ACB) to function as an effective regional centre of excellence in promoting biodiversity conservation and management;
- (viii) Promote the involvement of local community to maintain biodiversity conservation and forest health by 2015;

SECTION D8 OF THE BLUEPRINT FOR THE ASEAN SOCIO-CULTURAL COMMUNITY (2009-2015)

- (ix) Promote effective management policies and practices to reduce the impact of invasive alien species at the regional and international levels;
- (x) Promote regional cooperation on sustainable management of biodiversity such as sharing research and development experiences, exchange of experts, and training;
- (xi) Strengthen efforts to control transboundary trade in wild fauna and flora through the ASEAN Action Plan on Trade in Wild Fauna and Flora 2005-2010 and the ASEAN Wildlife Enforcement Network (ASEAN-WEN) to implement commitments to Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES);
- (xii) Explore cooperation among ASEAN Member States to conduct joint survey and monitoring of migratory wildlife; and
- (xiii) Promote cooperation among ASEAN Member States in combating land degradation for sustainable land management to support sustainable agriculture and environment.

ASEAN Cooperation on Nature Conservation & Biodiversity

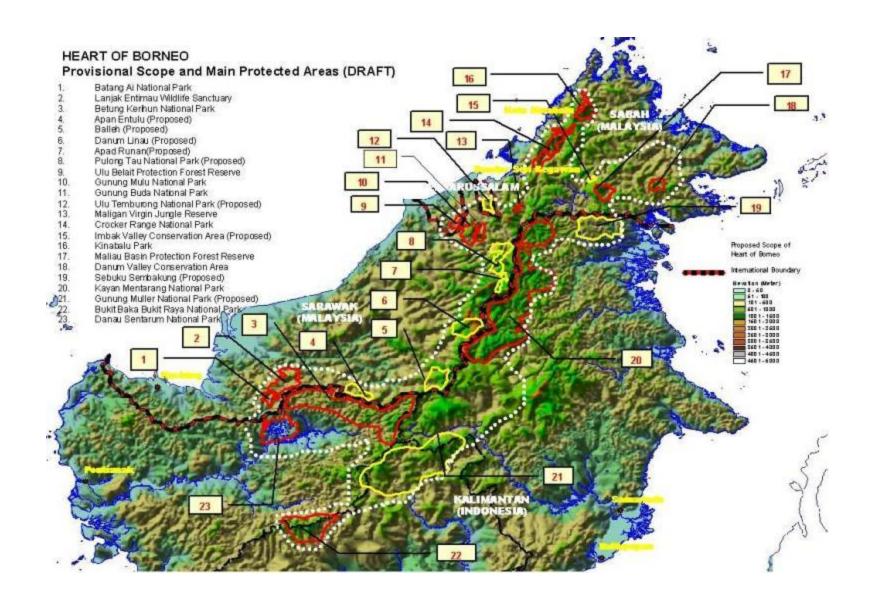


 Establishment and Operationalisation of ASEAN Centre for Biodiversity (ACB)

ASEAN
HeritageParks (AHP)Programme



Heart of Borneo Initiative (HoB)



Climate Change and Biodiversity Conservation

- ACB is partnering with Deutsche Gesellschaft für Internationale
 Zusammenarbeit (GIZ) on Climate Change and Biodiversity Project
 (BCCP). The overall objective of BCCP is to support ASEAN Member States
 (AMS) develop and enhance their strategies to appropriately address the
 interface between biodiversity and climate change.
- This project is envisioned to be increasingly oriented towards regional policy development focusing on ecosystems management and enhancing economic benefits from biodiversity. BCCP supports the ASEAN Member States through the ASEAN Centre for Biodiversity (ACB) on:
 - implementing sustainable development options for selected ecosystems; and
 - utilizing the concepts and instruments developed by ACB on enhancing the use of economic and financial tools for ecosystems and biodiversity.



The Economics of Ecosystems and Biodiversity

- The Economics of Ecosystems and Biodiversity (TEEB) study has drawn international attention to the global economic benefits of biodiversity and the high costs of biodiversity loss and ecosystems degradation.
- The ASEAN Conference on Biodiversity, organized by ACB in 2009, highlighted TEEB as one of its major themes.
- Further attention is needed to concentrate efforts at the highest policy and decision-making level and address capacities at technical level to ensure a more effective approach in disseminating TEEB and sustainable financing mechanisms such as payments for ecosystem services (PES) schemes.



The Economics of Ecosystems and Biodiversity

- ACB and the British Foreign and Commonwealth Office (UK-FCO), through the British High Commission in Singapore, jointly undertook a project entitled "Disseminating the Values of Ecosystems and Biodiversity to Enhance Climate Change and Biodiversity Strategies in Southeast Asia" (2011-2012).
- The project aims to engage policy and decision makers in recognizing the
 economic benefit and values of ecosystems and biodiversity, understanding the
 costs of biodiversity loss, and taking action towards incorporating these values into
 national plans and budget. Specifically, the project
 - conducted high level dialogues to disseminate and develop national capacity on The Economics of Ecosystems and Biodiversity (TEEB) and payments for ecosystem services (PES),
 - reviewed Climate Change and Biodiversity Action Plans and identify approaches to integrate TEEB and PES, and
 - developed a training module on TEEB and PES for continued capacity building in ASEAN.



Other ASEAN Environment Programmes

D1

Global Environmental Issues

ASEAN Working Group on Multilateral Environmental Agreements



Basel Convention



Montreal Protocol



Rotterdam Convention

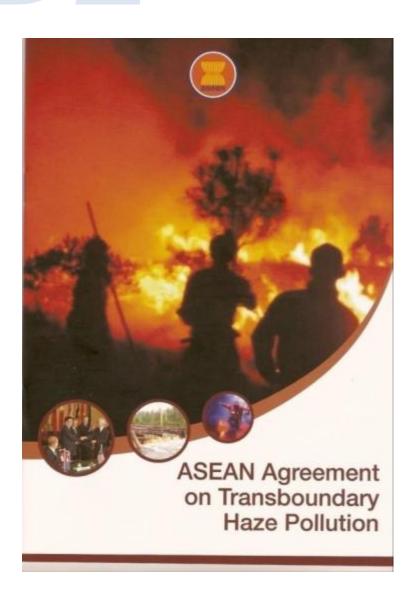


Stockholm Convention



UNFCCC & Kyoto Protocol

Transboundary Environmental Pollution

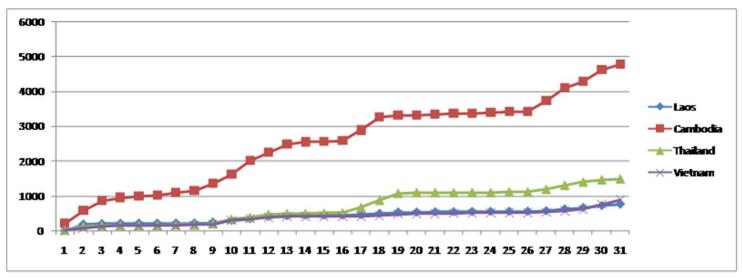


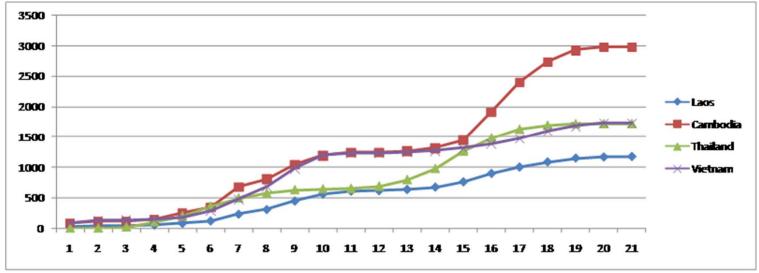
prevent, monitor, and mitigate land and forest fires to control transboundary haze pollution through concerted national efforts, regional and international cooperation through:

- monitoring and assessment
- prevention
- preparedness
- national and joint regional emergency response
- technical and scientific cooperation
- capacity building and public awareness



Haze Online: http://haze.asean.org/





Accumulative Hotspots: Indochina, January & February 2010

ASEAN/IFAD-GEF Project on Rehabilitation and Sustainable Use of Peatland Forests in Southeast Asia (2009-2013)

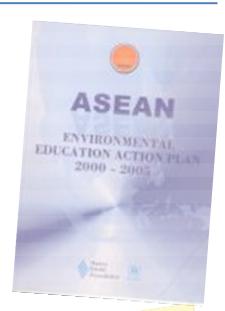


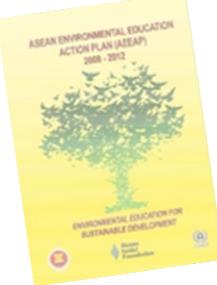
Environmental Education

- ASEAN Environmental Education Action Plan (AEEAP)
 (2000-2005 and 2008-2012)
- ASEAN Environmental Education Inventory Database (AEEID) http://aeeid.aseansec.org/



- ASEAN Environment Year (AEY)
- ASEAN Plus Three Leadership Programme on Sustainable Production & Consumption
- ASEAN Eco-schools Programme
- ASEAN ESD Film Festival





ASEAN Environment Year (AEY) 2012



ASEAN is committed to promoting environmental education and public participation to achieve the vision of a clean and green ASEAN. Schools that inculcate the value of environmentally sustainable policies and practices as an integral part of them play a critical role in educating the young generation on the importance of involvement in environmental protection and nature conservation.

D4

Environmentally Sound Technologies

- A Feasibility Study on Means to Promote Environmentally Sound Technology in ASEAN Region
- An Assessment for the Establishment of an ASEAN Regional Centre or Network to Promote Environmentally Sound Technologies
- ASEAN-NEST
 (ASEAN Network on Environmentally Sound Technologies)

Prototype on Environmentally Sound Technology Website

[Brunei Darussalam] [Cambodia] [Indonesia] [Lao PDR] [Malaysia] [Myanmar] [Philippines] [Singapore] [Thailand] [Vietnam]

- Needs and Priorities of ESTs
- Challenges in Promoting ESTs
- List of Policies, Strategies, Action Plans and Laws relating to ESTs application
- List of Environmental Funds supporting ESTs-related projects
- List of EST Initiatives and Projects
- List of Existing National/ Regional/ International Centers that Could Play Role as in developing Proposed Regional Facility

Brunei Darussalam

Needs and Priorities of ESTs | Challenges in Promoting ESTs |
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Proposed Regional Facility

Needs and Priorities of ESTs

- Improve uptake of EST through strengthening the institutional capacity of Department of Environment, Parks and Recreation especially in the area of implementation and enforcement of environmental legislation and regulations.
- Some main initial activities to be implemented are as follow:
 - Train department of Environment, Parks and Recreation staff in the implementation and enforcement of legislation and regulations
 - Maintain registry and directory of locally registered companies providing environmental services
 - Maintain registry and directory of environmental products, equipment and systems available in the local market
 - Facilitate promotional activities for introduction of environmental products and technologies to the local market
 - Conduct training and seminar on good environmental practices and application of environmental friendly technologies for industry
 - To maintain a resource center of appropriate environmental technical bulletin
 - Certification of qualified environmental auditors, assessors and technicians
 - Registrars for Certification of Environment Management System e.g. ISO 14000 certification
 - Promote understanding of the Environment Order and employ an integrated approach of compliance assistance, compliance incentives and innovative enforcement

D5

Urban Environmental Management

ASEAN Environmentally Sustainable City (ESC) Award Programme



Recipients of the ASEAN ESC Award 2008

- 1. Temburong District, Brunei Darussalam
- 2. Phnom Penh, Cambodia
- 3. Palembang, Indonesia
- 4. Luang Prabang District, Lao PDR
- 5. North Kuching City Hall, Malaysia
- 6. Taungyi, Myanmar
- 7. Puerto Princesa, Philippines
- South West Community Development Council, Singapore
- 9. Bangkok, Thailand
- 10. Ha Long, Viet Nam

Recipients of the ASEAN ESC Awards 2011

- National Housing Scheme Rimba, Brunei Darussalam
- 2. Phnom Penh, Cambodia
- 3. Surabaya, Indonesia
- 4. Xamneau, Lao PDR
- 5. Perbadanan Putrajaya, Malaysia
- 6. Pvin Oo Lwin, Myanmar
- 7. Puerto Princesa, Philippines
- 8. South West CDC, Singapore
- 9. Phuket, Thailand
- 10. Danang, Viet Nam

Recipients of Certificates of Recognition

- North Kuching City Hall, Malaysia: Clean Air for Small Cities
- Kuantan Municipal Council, Malaysia: Clean Water for Small Cities
- 3 Phitsanulok Thailand: Clean Land for Small Cities

ASEAN Initiative on Environmentally Sustainable Cities (AIESC)

25 ASEAN participating cities in ASEAN ESC Network

(as of 17 November 2008)

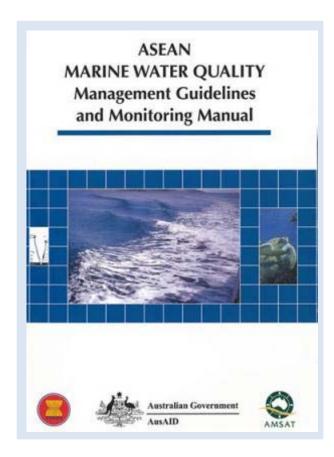
| Country | City |
|-------------------|---|
| Brunei Darussalam | Bandar Seri Begawan |
| Cambodia | Phnom Penh, Siem Reap |
| Indonesia | Padang, Palembang, Pekanbaru |
| Lao PDR | Luang Prabang, Vientiane, Xayabourie |
| Malaysia | Kuantan, Putrajaya, North Kuching City Hall |
| Myanmar | Mandalay, Yangon |
| Philippines | Cagayon de Oro, Iloilo, Quezon City |
| Singapore | Singapore |
| Thailand | Bangkok, Chiang Mai, Krabi, Phuket |
| Viet Nam | Da Nang, Ha Long, Ha Noi |

Harmonisation of Environmental Policies & Database



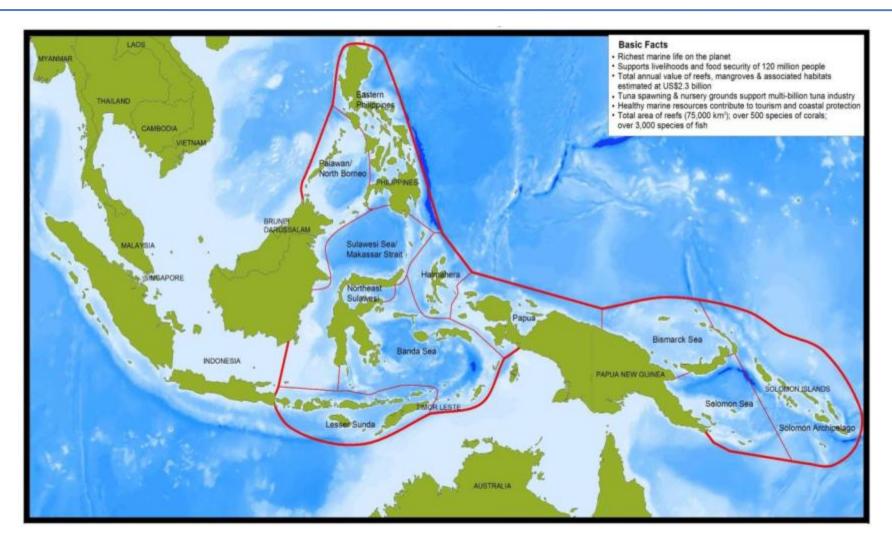
Coastal and Marine Environment

- Adoption of ASEAN Marine Water Quality Criteria
- Capacity Building for the Implementation of AMWQC – Phase I (2004-2005) and Phase II (2007-2008)
- The Publication of ASEAN Marine Water Quality:
 Management Guidelines and Monitoring
 Manual (2008)
- ASEAN Criteria for Marine Heritage Areas
- ASEAN Heritage Parks (AHP) Programme





Coral Triangle Initiative (CTI)



- 6 countries: Indonesia, Malaysia, Papua New Guinea, Philippines, the Solomon Islands & Timor Leste
- Two major criteria to define the boundaries of the CT regions are coral and reef fish diversity.

Freshwater Resources



ASEAN Strategic Plan of Action on Water Resources Management

- Workshop on the Existing Guidelines, Action
 Plans and Strategies related to Integrated Water
 Resources Management (IWRM) (led by Malaysia,
 implemented in March 2009)
- Urban Water Demand Management Learning Forum (led by Singapore, implemented in June 2009)
- Water Resources Demand Management Learning Forums for Irrigation (led by Thailand, implemented in July 2011)
- Risks and Impacts from Flood Extreme Events in AMS (led by Indonesia, implemented in June 2010)
- Risks and Impacts from Drought Extreme Events in AMS (led by Thailand, implemented in September 2010)

Climate Change

- ASEAN Declaration on Environmental Sustainability (13th ASEAN Summit, 2007)
- ASEAN Declaration on COP-13 to the UNFCCC and CMP-3 to the Kyoto Protocol (13th ASEAN Summit, 2007)
- Singapore Declaration on Climate Change, Energy and the Environment (3rd EAS Summit, 2007)
- Joint Ministerial Statement of the First EAS Energy Ministers Meeting (2007)
- Ministerial Statement of the Inaugural EAS Environment Ministers Meeting (2008)
- ASEAN Joint Statement on Climate Change to COP-15 to the UNFCCC and CMP-5 to the Kyoto Protocol (15th ASEAN Summit, 2009)
- Singapore Resolution on Environmental Sustainability and Climate Change (11th AMME, 2009)
- ASEAN Leaders' Statement on Climate Change to the 17th Session of the Conference of the Parties to the United Nations Framework Convention On Climate Change (UNFCCC) and the 7th Session of the Conference of Parties Serving as the Meeting of Parties to the Kyoto Protocol (2011)

ASEAN-ROK Flagship Project on Restoration of Degraded Forest Ecosystem in the Southeast Asian Tropical Regions

• Objective:

to contribute to the sustainable and equitable forest management and rehabilitation of deforested areas in the tropical forest ecosystems of ASEAN Member States through a <u>collaborative partnership in research</u>, <u>capacity building</u>, and sharing of scientific and technical information.

• Main Implementing Body:

ASEAN-Korea Environmental Cooperation Unit (AKECU)

• Project Implementation:

Phase I (2000-2005)

Phase II (2006-2008)

Phase III (2008-2011)

Phase IV (2011-2012)

Phase V (2012-2013)

ASEAN Centre for Biodiversity (ACB) Cooperation with ROK

- The 22nd Meeting of ASEAN Working Group on Nature Conservation and Biodiversity (AWGNCB) noted the success of this project and commended the project as an example of low-input high-output activity.
- ASEAN Centre for Biodiversity (ACB) to explore the possibility of cooperating with AKECOP.
- An Exploratory Meeting on cooperation between ACB and AKECOP was held on 19-20 April 2012 in Los Banos, Philippines.
- 15th AKECOP Steering Committee (ECOPSC) Meeting held on 13 June 2011 in Seoul, Korea suggested collaboration between the ASEAN Centre for Biodiversity (ACB) and the National Institute of Biological Resources (NIBR) ROK should be developed in conjunction with AKECOP in strengthening ASEAN-ROK cooperation in the field of biodiversity and conservation.

Other ROK-initiated proposals on Environment

- ASEAN-Korea Partnership Academy of Education for Sustainable Development – ASEAN Environmental Teacher Training Program (Phase II)
- Capacity Building for Biodiversity Survey in ASEAN.

Thank You



http://environment.asean.org/