

Asia-Pacific Environmental Innovation Strategy Project

Endorsed at the ECO ASIA 2001

Ministry of the Environment, Japan

Background(1)

- Environmental conditions are deteriorating in the Asia-Pacific region expecting rapid population growth and economic development.
- The world needs tangible answers to achieve sustainable development.
- As one step toward sustainable development, ECO ASIA Long-Term Perspective Project (LTPP) provided policymakers with scientific basis for policy formulation.
- The Launch of a new project is needed to achieve sustainable development in the Asia-Pacific region as the next step of LTPP.

Background(2)

- The launch of the Asia-Pacific Environmental Innovation Strategy Project (APEIS) was proposed at the ECO ASIA 2001.
- After a comprehensive discussion, the ECO ASIA endorsed with appreciation the launch of the APEIS.
- The ECO ASIA 2001 also endorsed the establishment of the ECO ASIA Panel, which will review, endorse and coordinate projects endorsed by the ECO ASIA.

Objectives and Key Concepts

- Objectives
 - To develop scientific knowledge-based tools and innovative strategy options to promote informed decision-making
 - To promote environmental cooperation and capacity building
 - To propose a model of regional initiative for sustainable development
- Key Concepts
 - Ensure the highest possible level of participation and collaboration
 - Create a framework in which scientific activities and policy makers interact synergistically and constructively
 - Fully incorporate and utilize resources of existing regional activities
 - Consider and reflect specific needs and diversified circumstances

Why is this Project "innovative"?

• Objects and Processes

- establishment of scientific infrastructure for policy-makers as a regional common asset through dynamic interaction between scientific activities and policy makers
- Outcomes
 - proposal of innovative environmental strategy options incl. environmentally sound/sustainable technologies and policy integration
- Technical elements
 - employment of innovative methodologies, e.g., satellite- and ground-based integrated monitoring and environment-economy integrated models





Integrated Environmental Monitoring (1)

• Main Components

- Development of a <u>MODIS data network</u> covering the Asia-Pacific region
- Development of a ground-based monitoring network to validate the satellite data
- Establishment of a MODIS data analysis system
- Development and application of <u>methodologies</u> for the analysis of satellite- and ground-based monitoring data
- Carried out by
 - Japanese National Institute for Environmental Studies and China's Institute of Geographical Sciences and Natural Resources Research

Integrated Environmental Monitoring (2)



•Ground environmental monitoring station

Environmental Assessments using Environment-Economy Integrated Models (1)

• Main Components

- Development of an environment-economy integrated model
- Development of an ecosystem assessment model
- Development of <u>indicators</u> for assessing trends in natural resources and the status of implementation of environmental policies
- Calculation of the <u>status of above indicators</u> and <u>prediction of</u> <u>future trends</u>
- Development of a <u>strategic database</u> that links various types of supporting data and environmental indicator data, in order to provide <u>useful data to policy makers</u>
- <u>AIM project</u> will provide a good basis for this sub-project

Environmental Assessments using Environment-Economy Integrated Models (2)



Research on Strategy Options (1)

- Conducted by <u>international collaborative research group</u> that will be launched in 2002
- Examples of options
 - Innovation in the environmental sector
 - Application of environmentally sound/sustainable technologies and information technologies
 - Promotion of eco-industry and eco-investment
 - Rediscovery and nurturing of traditional values and ways of life that protect the environment
 - Policy linkages and integrations
 - Local air pollution, climate change and acid deposition
 - Promotion of recycling and eco-industries
 - Encouragement of natural resource conservation and agriculture, etc.

Research on Strategy Options (2)



Management Framework



Budget and Schedule

- Budget
 - 450 mil. Yen (\$3.75 mil.) for FY 2001
 - 550 mil. Yen for FY 2002 (TBD)
 - In-kind contribution from other research institutes
 - Expansion by using GEF being discussed with UNEP and ADB

• Schedule (anticipated)

2001 Sep.	APEIS/MA joint workshop
Oct.	Endorsement of launching the Project at ECO ASIA 2001
2002 March	RCC develops a draft overall research plan
June	Review and endorsement of overall research plan at ECO ASIA PANEL

