

Cooperative Research Schemes for the Environment and Energy Issues in Asia

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Objectives of Session 2

Asian Approach Toward Sustainable Development and S&T Innovation

- 1. Addressing issues concerning the environment and energy**
- 2. Exploring ways in which S&T can resolve these issues**
- 3. Canvassing plans for establishing an active cooperative research scheme among Asian countries**

Agenda for three years

1st Year (2005):

Clarify issues, measures and directions, mainly relating to environmental issues.

- Follow-up Seminar in Malaysia, March 2006 (Ecosystem conservation & utilization)

2nd Year (2006):

Clarify issues, measures and directions, mainly relating to energy issues.

- Follow-up Seminar in Indonesia, February 2007 (Biomass and other renewable energies)

3rd Year (2007):

Clarify a **cooperative research scheme** and specific measures.

Past ASTF presentations:

http://www.jst.go.jp/astf/en_index.html

Quick Review of 1st & 2nd ASTF Conclusions

Conclusions from 1st ASTF

1. Recognition of importance for strategic R&D projects and funding schemes in Asian countries
2. Needs for Functional Cooperative Facilities (Center)
3. Significance for R&D networks centering around this ASTF
4. Advertisement for results from ASTF discussions and share with **policy makers, researchers or business leaders**



Conclusions from 2nd ASTF (1)

1. Energy demand from most Asian countries will increase rapidly, so energy application must be improved.
2. Coal will play a key role in most Asian countries in the next few decades. Considering that the use of coal inevitably increases emissions of CO₂ and other pollutants, we should promote the introduction of clean coal technologies. The Kyoto mechanism may be a useful policy tool for this purpose.



Conclusions from 2nd ASTF (2)

- 3. Demand for transportation is so vast in most Asian countries that system designs for more effective use of public transportation and development of more efficient automobiles are required.**
- 4. There are high expectations for greater use of renewable energies in most Asian countries. The most promising candidates could be biomass and wind power.**

Points for the Panel Discussion

Cooperative R&D Schemes for the Environment and Energy Issues in Asia

1. R&D items which require cooperation among Asian countries
2. Problems of existing international research programs
3. Bilateral / Multilateral R&D cooperation schemes
4. Ideas for linking with existing international research programs
5. Scenarios to improve competitiveness of Asia by R&D cooperation in this area
6. Other related issues to be addressed
 - Ideas for practical use of ODA facilities and infrastructure

Objectives

- Building win-win relations among Asian countries for prosperity
- Enhancing production and stock of knowledge and scientific excellence
- Asian fusion for enormous innovation and enhancement of competitiveness

