

New research proposal for Environment Research and Technology Fund

- By October 21, AIM team will submit new research proposal.
 - ✓ Main theme: "Decarbonization of Asia"
 - ✓ Goal: Roadmap development to net zero GHG emissions in some Asian countries
 - ✓ Policy dialogue and dissemination of developed scenario will be implemented under LoCARNet framework.
- At the last AIM Workshop, we discussed the research collaboration among the AIM team;

	Topics (groups) (Title is tentative.)	Time scale	Geographic scale	Leading institute	
A	Climate change and other environmental issues including health	near-term to middle-term	urban country	Prof. Dai	→ S-20 by Dr. Hanaoka
B	Transition to net zero economy (vision, scenario)	long-term	country (urban)	Dr. Diego	→ This proposal
C	Assessment of NDCs and long-term strategies (practical assessment, institution)	middle-term to long-term	country	Prof. Bundit	

At S-6 Project (2009-2013), we proposed "10 actions toward low carbon Asia"

Action 1 Hierarchically Connected Compact Cities: Urban Transport

- Compact cities with well-connected hierarchical urban centers
- A seamless and hierarchical transport system
- Low carbon vehicles with efficient road-traffic systems

Action 2 Mainstreaming Rail and Water in Interregional Transport

- Formation of industrial corridors using a low carbon transport system
- Establishment of an intermodal transport system incorporating rail and water
- Reduction of CO₂ emissions from vehicles and aircraft

Action 3 Smart Ways to Use Materials that Realize the Full Potential of Resources

- Production that dramatically reduces the use of resources
- Use of products in ways that extend their lifespan
- Development of systems for the reuse of resources

Action 4 Energy-Saving Spaces Utilizing Sunlight and Wind: Buildings

- Improvement of the energy-efficiency performance of buildings
- Application of high-efficiency equipment to buildings including heating/cooling equipment
- Visualization of energy-saving efforts

Action 5 Local Production and Local Consumption of Biomass

- Sustainable co-production of biomass energy and food
- Low carbon energy systems using local biomass resources in rural areas
- Improvement of living environments with intensive biomass utilization

Action 6 Low Carbon Energy System Using Local Resources

- Promotion of sustainable local energy systems with renewables
- Creation of smart energy supply and demand systems
- Enhanced energy security by integrating low carbon energy sources and fossil fuels effectively into an energy system

Action 7 Low Emission Agricultural Technologies

- Water management in rice paddies
- Highly efficient fertilizer application and residue management
- Recovery and use of methane gas from livestock manure

Action 8 Sustainable Forestry Management

- Forest protection and effective plantation
- Sustainable peatland management
- Monitoring and management of forest fires

Action 9 Technology and Finance for a Low Carbon Society

- Promote private-sector R&D for LCS
- Establish adequate funding to support R&D and technology diffusion
- Foster environmentally conscious consumers who choose low carbon products

Action 10 Transparent and Fair Governance that Supports Low Carbon Asia

- Create an efficient administrative management framework
- Establish fair and transparent business practices
- Improve literacy with respect to environmental policies and technologies

We will update the actions to realize the net zero emissions in Asia

New research project for Environment Research and Technology Fund

- Tentative proposal
 1. Overall discussion on the net zero emission scenario in Asian countries based on Enduse and CGE including social transition, production structure, etc.
 2. Detailed discussion on specific issues related to service demand and countermeasures
 - a. Electricity including renewable energy
 - b. Transport
 - c. Agriculture and landuse including carbon sink
- ✓ If you are interested in this new proposal, please contact us by October 8.
- ✓ If you have already received or intend to apply research fund in your country related to net-zero emission issue, please let us know your research title and the fund name.