Expansion of knowledge network towards sharing science-based policies: A Message from Asia

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Linking Policy and Science

Formulation of low-carbon growth policies - Process, data, knowledge, tools and methods
About half of cumulative anthropogenic CO₂ emissions between 1750 and 2010 have occurred in the last 40 years.

Mitigation can result in large co-benefits for human health and other societal goals.
There has been a considerable increase in national and sub-national mitigation policies since AR4.

Recommendation 1: Internationalize Regional Low Carbon Networks

1. Close links exist between LCS-RNet and LoCARNet
2. Immediate steps should be to target policy relevant research outputs for 2015 negotiations
3. Linking with low carbon research networks in other regions
4. Developing common policy protocols for comparative research
Recommendation 2: Focused and Shared Research

1. Share Frameworks, Methodologies, Tools and Models
2. Shared Strategic Databases
3. Develop Common Policy Agenda for Targeted Research
4. Actively Link Research to:
   - Global – Regional Policy Agenda
   - Regional – National Policy Agenda
   - National - Sub-national Policy Agenda
5. Connect Actively with Policy Forums

A ‘Good Practice’ example is Asia-Pacific Integrated Model (AIM) Research Network led by NIES, Japan since nearly a quarter century

Framework of Integrated Policy Model for China (IPAC)

Energy demand and supply
Price/Investment
Economic impact
Medium/long-term analysis

Environment industry
Pollutant emission
Medium/long-term analysis

Energy demand and supply
Price/Investment
Medium/long-term analysis

Technology development
Environment impact
Technology policy

Region analysis
Medium/short analysis
Energy demand and supply
Technology policy

IPAC/AIM-Local
IPAC/Gains-Asia

Climate Model

Coursey: ERI, China
Recommendation 3: Organize Comparative Policy Research Exercises

**Graph:**

**EMF27 emissions scenarios**

**FF&I CO2 emissions and radiative forcing**

Ref:
1. Blanford, Kriegler, Tavoni, 2014, Climatic Change 123(3-4)
2. Kriegler, Weyant et al., 2014, Climatic Change 123(3-4)

Recommendation 4: Research to Operationalize Policy Instruments

1. Emissions Trading
2. CDM: e.g. Baseline determination
3. NAMAs implementation
4. Green Climate Fund
5. Carbon Bonds
6. Connect Actively with Policy Forums
7. Engage Policy-makers by preparing Policy Relevant Briefs
Message from Asia

1. **Global Engagement:** Internationalize Regional Low Carbon Networks

2. **Purposive Cooperation:** Focused and Shared Research

3. **Inclusive Vision:** Organize Comparative Policy Research Exercises

4. **Practicality:** Research to Operationalize Policy Instruments

‘Good Practice’ examples show that policymakers have keen interest in low carbon policy research and would support the knowledge networks so long as research is purposive, inclusive and practical.

Thank you