Low Carbon Technology Transfer in the Context of Asian Regional Integration

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(Jul. 23rd, 2014)

1. Low carbon technology transfer: Key to emission reduction in Asia

>Asia has a huge need/opportunity to reduce GHG emissions (estimated to be around 6.8 billion tons in a Technologically Advanced Scenario);

>Energy saving related technologies is playing a crucial role (estimated to contribute with about 53% of overall reduction).
2. Low Carbon Technology Transfer: Still an urgent and hot topic

> Discussion about technology transfer has been discussed since early 90s, but still it is considered a hot topic and urgent issue.

> No consensus yet on what to do?, how to do it?, who will do?

3. Technology transfer process: Overview

> LCTT is a complex process with multiple steps and many actors;
> This chapter considers LCTT process as consisting of three steps:
4. Low carbon technology transfer in Asia: Overall trend

>Focus has been on crafting policies related to market transformation to absorb technologies rather than on addressing the development of TNA and TAA;

>Tremendous effort and time has been allocated to conduct feasibility studies, but little has been devoted to demonstration projects and MRV activities;

>Trade and FDI flows have been accelerated, but unevenly across sectors and regions;

>Trade barriers are still high, and the level of “ease of doing business activities” is low in most of countries in the region.

5. Promoting LCCT in Asia: Elements of a strategy

5.1 Creating and strengthening cooperation initiatives regarding the identification of seeds and needs

1) Each country in Asia should conduct country reviews to identify, collect, analyze, document, and disseminate their needed and/or availability in terms of LCTs; and share it through a national/public database that is accessible to all relevant stakeholders;

2) Create and strengthen coordination among countries to identify gaps, priority areas, partners, solutions, etc.

3) Support countries with low implementation capacity;

4) Develop regional/subregional information systems for mapping technologies available and needed, and/or establishment of an online knowledge platform.
5.2 Creating and strengthening cooperation initiatives regarding matching seeds with needs

1) Create and strengthen partnerships among related stakeholders (especially Businesses to Businesses (B2B) and Businesses to Government (B2G));

2) Conduct FS/DS and especially demonstration projects under specific national, regional/subregional initiatives; Tax alleviation could be considered for the technologies which are under demonstration;

3) Create intergovernmental mechanism for impact assessment of new technologies;

4) Create and strengthen regional peer learning, exchanges, and training programmes regarding new technologies;

5) Establish a regional information system for mapping successful case studies of cooperation.

5.3. Creating and strengthening cooperation initiatives regarding upscaling the matching process

1) Create the enabling policy and business environments through strengthening matchmaking process among related stakeholders (especially businesses to financial institutions);

2) Establish a market place for low carbon technologies and catalyze more investment from public and private sectors.

3) Consider technology transfer in the context of publicly-funded technologies and public procurement, on concessional and preferential terms;

4) Provide funding through small loans, grants programs, technology prizes, etc.

5) Establishment of the following initiatives could be considered: (i) a regional clean technology venture capital fund (a risk capital fund); (ii) Regional network of centers of excellence, partnerships and hubs related to low carbon technology transfer; and (iii) economic partnership agreements on green technology transfer and deployment.
Thank you for your attention.