技術移転について

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Technology Transfer – Manufacturers & Users

Developed countries

Manufacturers

R&D → Commercialization → Production

User

Deployment / Diffusion

Technology licensing

Local R&D → Technology licensing

Export

FDI (incl. JV)

Developing countries

Manufacturers

R&D → Commercialization → Production

User

Deployment / Diffusion

Operation & Maintenance Know-how

Know-how
Technology Transfer – Supply Chain

- Developed countries
  - Assembler
  - Tier 1
  - Tier 2
  - Tier 3

- Developing countries
  - Capacity building

Flow of activities:
- FDI & License
- Export
Facilitation of technology transfer

1. Modes of technology transfer are diverse.
   - Necessary to support them differently (next slide)

2. Support for match making between technology providers and receivers by aid agencies, UN organizations, NGOs etc. is helpful as an initial step. To make it replicable and scalable, creation of enabling environments is a key. For example,
   - Match making: demonstration project/program of energy-efficient equipment by partnership of aid agency, technology providers and technology users
   - Enabling environments: energy efficiency standards and concessional loan programs for technology adoption

3. Technology transfer to SMEs: In terms of scaling and replicability, focusing on common areas among SMEs may be a good strategy.
   - e.g. efficient generation and use of heat
Enhancement of commercial flow of technologies by public policies and resources

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User

Deployment/Diffusion

Developing countries

R&D → Commercialization → Production

Technology licensing

FDI (incl. JV)

Financing license costs

Joint R&D and demonstration

Removal of trade barriers

Improving investment climate

Export

Operation & Maintenance

Capacity Building

Policy development assistance

Fixing distortional energy prices

Financing incremental costs for technology adoption

Strengthening IPR protection

Joint R&D and demonstration

R&D

Technology licensing
Match making among needs, technology and finance

Technology Needs → Concrete Proposal → Implementation

Technical support

Finance

Assisted match making → Enabling environments → Commercial match making