

DEMONSTRATION SITE OF A TECHNOLOGY TRANSFER NETWORK FOR
ADDRESSING CLIMATE CHANGE

Description of Technology Supply Survey

1. Survey Fields:

The information of technology supply is mainly to survey the advantages technology to address the climate change in Thailand and the neighboring countries in Southeast Asia, which relates to the following areas: water resources, agriculture, forestry, renewable energy, environmental protection, disaster prevention and mitigation, energy conservation and emissions, health, etc.

2. Survey Methods:

- Literature investigation
- Spot investigation
- Interview
- Distribution and recovery of questionnaire (for the universities, research institutions, companies, government organizations)
- Expert consultation

3. Survey Results:

The Survey Results include: Text, data, graphics, multimedia, and other information. The Organization will classify the results of the Survey and provide to Chinese side before Dec. 30, 2013. The Chinese side will release the information to the network platform.

4. Survey Contents: see the following form

Technology supply Survey

1. Description of Technology Supply

(1) Technology name
(2) Technical information
(3) Functions and use
(4) Scope of application
(5) Technological features
(6) Technology categories (multiple choice):
<input type="checkbox"/> Technology <input type="checkbox"/> Equipment <input type="checkbox"/> Service
(7) Technology field
<input type="checkbox"/> Renewable energy sector <input type="radio"/> solar energy <input type="radio"/> Small hydropower <input type="radio"/> Biomass and other biomass energies <input type="radio"/> Wind power <input type="radio"/> others <input type="checkbox"/> Agricultural sector <input type="radio"/> Irrigation and water-saving agriculture <input type="radio"/> crop breeding <input type="radio"/> Agricultural machinery <input type="radio"/> Pests monitoring and control <input type="radio"/> soil amendment and fertilizer <input type="radio"/> Animal breeding <input type="radio"/> Food processing <input type="radio"/> others <input type="checkbox"/> Forestry sector <input type="radio"/> Pests monitoring and control <input type="radio"/> Forest management,plantation, tree variety breeding <input type="radio"/> Forest fire prevention <input type="radio"/> others <input type="checkbox"/> Waste utilization <input type="radio"/> Agricultural waste utilization <input type="radio"/> Industrial waste utilization <input type="radio"/> landfill,incineration and composting of waste <input type="radio"/> others <input type="checkbox"/> Water resources <input type="radio"/> Technology for the reuse of rainwater and floodwater <input type="radio"/> Safe drinking water technology <input type="radio"/> Sewage treatment and reuse technology <input type="radio"/> Seawater desalination <input type="radio"/> Water conservancy project <input type="radio"/> others <input type="checkbox"/> Resources and environment technologies <input type="radio"/> Environmental monitoring <input type="radio"/> Ecosystem restoration <input type="radio"/> desertification combating and prevention <input type="radio"/> others <input type="checkbox"/> Energy-saving technologies for buildings

- Energy conservation and emissions reducing technologies for industrial production
- Energy conservation and emissions reducing technologies for civil and commercial use
- Disaster prevention and mitigation
 - Disaster prevention and relief
 - Remote sensing
 - others
- Health
 - Tropical disease control and prevention
 - others
- others

2. Status of Application

(1) The maturity of technology(multiple choice)
<input type="radio"/> Has been promoted and used <input type="radio"/> Can be put into industrial production in developing countries <input type="radio"/> Mature product
(2) The technology in ease of use
<input type="radio"/> No training is needed <input type="radio"/> Ready for use after simple training <input type="radio"/> Special training is required before use
(3) Using economics (multiple choice)
<input type="radio"/> Low user cost <input type="radio"/> High initial input cost but low subsequent use cost.
(4) Requirement of post-maintenance
<input type="radio"/> Maintenance free <input type="radio"/> Users can perform their own maintenance <input type="radio"/> Maintenance personnel must be trained or a maintenance station should be set up
(5) Technology source
<input type="radio"/> independent development <input type="radio"/> introduced from overseas and redevelop <input type="radio"/> International joint development <input type="radio"/> others
(6) Ownership of intellectual property
<input type="radio"/> self-owned <input type="radio"/> shared <input type="radio"/> others
(7) The current situation of technology transfer
<input type="radio"/> Has transferred to developing countries <input type="radio"/> In the process of transfer <input type="radio"/> Have not to be transferred
(8) Typical cases of the technology application

3. Application Effect of Technology

(1) S&T benefits (technical reserves, improvements in the local technical ability)
(2) environmental benefits (energy and water conservation, emission reduction)
(3) economic benefits (market potential, business development)
(4) social benefits(create more employment opportunities, developing local resources)

4. Supports for Technical Application

(1) Expected support from which aspects(funds, policy and technology intermediary organizations)
(2) Applicable mode of technology transfer: (technology transfer, technical training, technical demonstration, joint research, cooperative production, demonstration project, personal exchanges, complete sets of equipment export, etc.)

5 Technology Provider

Organization: Contact: TEL: E-mail: Address:
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Example:

Description of Technology supply

Technology name: Solar photovoltaic power generation technology

Technical information: (1) Solar cell efficiency:>17%; (2) Solar inverter efficiency:>95%; and (3) household-use solar power generation equipment will continue to maintain the normal power supply for at least 3 consecutive cloudy days.

Functions and use: (1) Solar off-grid generation system solves the problem of electricity usage for farmers and herdmen in remote regions in developing countries, improves the standard of living and livelihood of residents. (2) Solar grid-connected generation system generates renewable energy in developing countries that meets the required sunlight conditions. And (3) Solar photovoltaic water pump is especially useful in arid and semi-arid regions and can meet the domestic, livestock and irrigation needs of farmers and herdsmen.

Scope of application: Solar photovoltaic generation technology has been widely used in agriculture, industry, energy and other fields.

Technology categories: Equipment and Technology

Area: Renewable energy sector-solar energy

Status of application

The maturity of technology: The technology has already put into use; can be put into industrial production in developing countries;

The technology in ease of use: is a mature product; ready to use after simple training;

Using economics: has high initial input cost, but later-stage cost of use is low and users

Requirement of Post-maintenance: can carry out their own maintenance.

Technology source: independent development

Ownership of intellectual property: self-owned

The current situation of technology transfer: Has transferred to developing countries

Typical cases of the technology application: cooperation agreements have been signed with Pakistan, Egypt, Madagascar and other countries to provide them with solar photovoltaic generation technology, and assist local enterprises in building up solar photovoltaic businesses. Related products and services are already in use in Egypt, South Africa, Nigeria, Pakistan and other developing countries.

Application effect of technology

Safe and reliable, no noise, no pollution emissions, absolutely clean

Photovoltaic technology has significant economic benefits

Supports technical application may needs

Expected support from which aspects:

Applicable mode of technology transfer: technical training, technical demonstration or complete sets of equipment import

Technology Provider

Organization:

Contact:

TEL:

E-mail:

Address: