

Country Report (Form)
CTI the Sixth Workshop for Asia (at ICETT)

1. Name of participant

Miss Nilapha Paemanee

2. Organization to which participant belongs

My organization is Electricity Generating Authority of Thailand (EGAT), the state enterprise responsible for generating, transmitting and selling bulk electrical energy to distributing entities. My organization has successfully fulfilled its entrusted mission in managing Thailand's electric power system to meet the country's economic and social requirements with efficient and reliable electricity supply while giving importance to the environment and public participation in impact mitigation process and campaigns to promote energy efficiency and conservation.

3. Department and duties

I have been working at Air Quality and Noise Section, Environmental Technology Department, Environmental Division since 1998. The principal scope of work and responsibilities of the division is to cover all aspects of environmental management for development and operation of all power plants, transmission systems and lignite mines. It also provides environmental services to external agencies and other projects associated with the power development. Other responsibilities include the community development, public participation program and dissemination of environmental technological information.

The responsibilities of Environmental Technology Department that I belong can be summarized as follow:

- Investigation and evaluation of environmental impacts, recommendations of appropriate mitigate measures and design monitoring programs.
- Environmental quality monitoring for power plant, transmission systems, lignite mines and factories.
- Environmental data management.
- Coordination and liaison with concerned agencies to provide technical assistance for environmental management to minimize environmental impacts and improving environmental quality.

My main duties and responsibilities are as follow;

- To conduct, analyze and interpret the environmental quality monitoring data and prepare environmental reports.
- ISO 14000 Consultant for power plants and factories.
- To suggest the relevant technical information particular in environmental information and management system in accordance with ISO 14001, ISO 14004 and ISO14031.
- To keep pace with international environmental conventions and protocols.

4. Impressions of the current situations

Please introduce your efforts to promote energy efficiency and cleaner production and CDM and cases of success and failure in your organization.

Since United Nation conference on Environment and Development “Earth Summit” in 1992, Thailand’s national development strategies have been strengthened and adjusted to the need for more sustainable forms of natural resources management and conservation.

Electricity Generating Authority of Thailand (EGAT), an organization, has a policy to provide sufficient and reliable power service with environmental and social concerns. To follow the organization’s policy and national strategic plan, many potential strategies have been launched to promote energy efficiency and conservation, which can take toward the reduction of greenhouse gases. Key strategies are shown as follow;

- Efficiency improvement of exist generating systems includes modernizing and renovating power plants. This efficiency improvement strategy has been implemented by several major power plants such as South Bangkok, Mae moh power plants, etc.
- Maximizing the use of clean fuels such as natural gas and renewable energy like hydropower. In 2002, hydropower plant generated 6,481 Million kWh of energy, which increased further by 2.71% from the year 2001. In addition, EGAT also purchases electricity from small power producer to supply the power system with electricity fuelled with agricultural and industrial waste.
- Implement reforestation projects in several areas over the country. At the end of 2002, reforestation projects have been completed more than 300,000 rais.
- Implement Demand Side Management (DSM) programs with the main objective to conservation and efficient use of electricity. The program has been a major success of changing Fluorescent Thin Tube, Public awareness and more efficient appliances (air conditions and refrigerators).
- For ensuring electricity generated under pollution prevention and minimizing environmental impacts, EGAT has encouraged to implement standardized environmental management system (ISO 14001) to all major power plants and other facilities. Now, all the major EGAT’s power plants (6 plants) and other facilities including substation and hydropower plant have achieved the ISO 14001 standard for Environmental Management System.

For CDM Activities in EGAT are on the feasibility study process with cooperation from Annex 1 country.

5. Problem, challenges and factors preventing the widespread use of technologies

Please explain the problems, challenges and factors preventing the widespread use of technologies when trying to promote energy efficiency & cleaner production and CDM in your organization.

Many programmes used for promoting energy efficiency and cleaner production have been achieved. However, CDM activities in EGAT has had limited success. Obstacles to the realization of CDM Activities are

- The know-how of acceptable methodologies to calculate the baseline or Business-as-usual condition. This also leads to what should be the Monitoring and Verification Protocol to be included in the Project Design Document (PDD).
- Limited human resource for consideration the suitability of applying CDM to EGAT's activities.