

Capacity building programme for power industry of Cambodia, Laos, Vietnam and Thailand (CLVT) countries – Special newsletter No.1



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1. Introduction

In framework of continuing support by [ACE-EAEF](#) for regional capacity building in power sector and in the context of the **Initiative for ASEAN Integration** (IAI) objectives to foster ASEAN Power cooperation, a consortium group has been formed to implement granted projects “*Capacity building programme for power industry of Cambodia, Laos, Vietnam and Thailand (CLVT) countries*” and “*Capacity Building Programme for Power Transmission System Personnel of Electricité du Cambodge (EDC)*”. This consortium group consist of Electricité du Cambodge (EDC), Electricity Generating Authority of Thailand (EGAT), Innovation Energie Développement (IED, France) and Power Development company (PowDev, Belgium).

The main objective of the project is to conduct a set of power sector training for power utilities in Cambodia, Laos, Vietnam and Thailand to ensure that they are well equipped with the competence and know-how. The project will also provide opportunities for the high level staff of the utilities to meet and discuss issues related to common strategies and harmonisation, which should contribute to expedite the implementation of the Trans ASEAN Energy Network.

The training courses will be conducted by EGAT staff and European staff (IED and Power Dev) and will be for the most part in Thailand, availing of the training facilities of EGAT. In order to maximise outreach,

some activities targeted more specifically to EDC will take place in Cambodia.

2. Kick-off meeting and management seminar

The project started with a Seminar on Electric power management for CLVT countries for high level management staff from the Human Resources Development area as well as management staff from the various technical areas. The kick-off meeting and seminar was held in Bangkok from 18 – 20 November 2003. The seminar was attended by delegations from Greater Mekong Sub-regional utilities and consultant firm :

- ❖ Electricité du Cambodge, lead by Deputy general manager and 7 line managers and experts
- ❖ Electricité du Laos lead by Deputy general manager and 6 line managers
- ❖ Electricity of Vietnam with 7 line managers and experts,
- ❖ Electricity Generating Authority of Thailand with 9 managers and experts,
- ❖ Provincial Electricity Authority with 2 managers,
- ❖ Metropolitan Electricity Authority with 2 managers,
- ❖ Innovation Energie Développement, lead by its Director and 1 senior energy economist.

This seminar aimed at human resource managers, power T&D managers, hydropower managers, power system planning managers and customer service managers to :

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- ❖ Review and prioritise the training needs and contents;
- ❖ Formulate integrated training work plan for the CLVT power industry;
- ❖ Identify target groups and establish criteria for selection of trainees. Finalize training schedules;
- ❖ Conduct awareness programmes for managers on the importance of human resource development;
- ❖ Establish a framework for collaboration in the power industry in CLVT countries in order to envision a structured collaboration for the medium term.



At the opening, Mr. Kitti Sirikwin, EGAT Deputy-Governor, Transmission Development System, extended a very warm welcome to all the delegates. In his welcoming remarks, Mr. Kitti Sirikwin considered a significant start of the Initiative for ASEAN Integration or the so-called IAI Project, having Electricity du Cambodge, jointly with Innovation Energy Development, France and EGAT as the partners. As one of the organisations participating in this ideal Project, and on behalf of it, he is delighted to see the cooperation among the countries in the

Region, resulting in closer tie among GMS countries, and most of all, sustainable development of the countries involved.

3. Presentations and discussions during the seminar

In subsequent sessions of the first day of the seminar, Representatives of EDC, EDL, EVN and EGAT presented and actively participated in the discussion on:

- ❖ Status of human resource in the concerned activity;
- ❖ Existing training programmes, centres and its capacity and priorities.;
- ❖ Utility's needs to enhance and improve the human resource capacities (skill, know-how);
- ❖ Best practices in concerned activity;
- ❖ Vision for long term collaboration in the region.

On the second day of the seminar, the delegates concentrated on finalization of the training programme of the present initiative as well as to review and asses existing concerns in human resource development in order to envision a structured collaboration for the medium term.

4. Project's training courses

As noted above, the main objective of this project is to provide a set of training courses on planning, dispatching, O&M, engineering and construction for power industry personnel. During the seminar, the delegates discussed the project's details on priority and needs of the trainings

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programs, content of each training course, target groups and selection criteria of participants (trainees), program and schedule, leader of training and responsibility between partners, language organisation matters and other practical matters of training organization.

Following are the themes of the training courses that have been finalized :

1. Power System Planning, environment impact assessment, socio economic impact assessment and clean energy technology;
2. Power Wheeling and centralized dispatch of power system;
3. Substation operation and maintenance;
4. Transmission line operation and maintenance;
5. Hydropower plant operation and maintenance, control and protection system;
6. Hydropower plant engineering and construction;
7. Power system engineering and construction;
8. LV and MV Distribution System

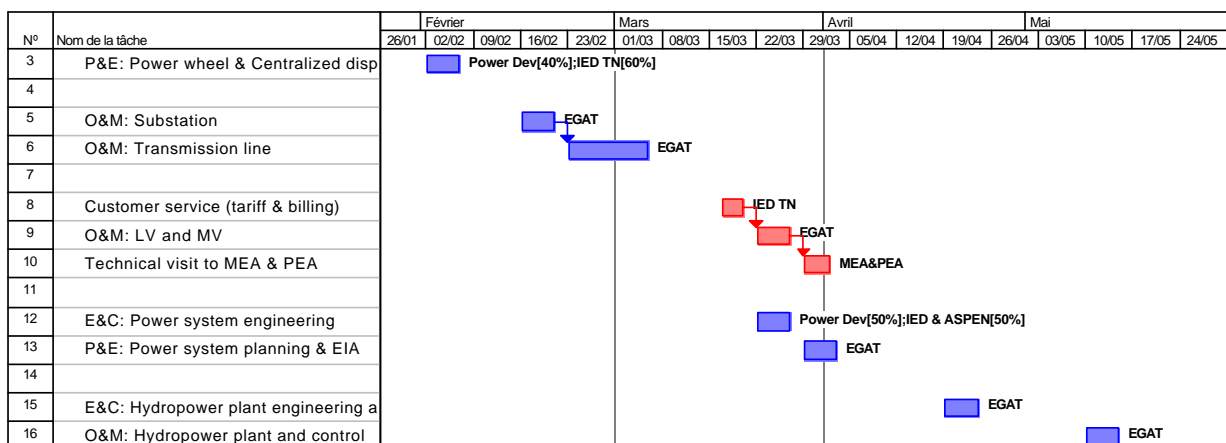
- Operations and Maintenance;
9. Customer Service Metering and Billing.

It was agreed by all partners and beneficiaries that these training courses are urgently needed. Their contents are well designed to meet GMS specific needs, particularly on O&M activities, customer services and hydropower. It was expressed the wish to have more practical exercises and on-the-job sections which was taken into account by all involved parties, particularly for the trainers in their elaboration of the “trainer’s manual”.

The schedule for these training courses was discussed and agreed. The first training course will take place in the beginning of February 2004 and the last course will finish at the beginning of May 2004.

5. Future structured cooperation

On the last day of the seminar, the delegates discussed on the modalities of further collaboration under IAI framework. The seminar was outline some areas with



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priority for further collaboration and proposed some topics to be elaborated further into proposals. It was also noted that not all topics need to be equal interest to all utilities, bilateral issues are possible, the modalities other than training sessions to be considered :

- ❖ Renewable and energy efficiency
 - Minihydro power development
 - Energy efficiency in demand side and supply side
- ❖ Generation and transmission planning
 - Generation pre-feasibility study
 - Transmission line : feasibility study, training courses, software acquisition, exchange of personnel and on-the-job training
- ❖ Distribution management
 - Unification of distribution standards – feasibility study
 - SCADA development and exchange of experiences
- ❖ Power purchase agreement contract
 - Elaboration and negotiation
 - Cross border contracts, IPP contract.
 - Negotiation simulation
- ❖ Hydropower construction management
 - Project management
 - Quality control
 - Experience exchange
- ❖ Transmission line
 - Design and engineering
 - Line construction management
- ❖ Financial management
 - Project financing and projections
 - Project costing
 - Cash flow management
- Financial analysis
- Investment planning
- ❖ Human resources development
 - Manpower planning
 - Training need analysis
 - Management policy for training
- ❖ Telecommunications
 - Using fibre optic cables
- ❖ Advanced Substations and transmission
 - GIS substation
 - Underground cables
- ❖ Relay testing and settings

The delegates designed the responsible and the deadline for the elaboration of each proposed topic and then circulate to all parties for discussion and follow-up cooperation.



For more information, please contact:
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For detailed technical papers and presentations visit web sites :
<http://www.ied-sa.fr>
<http://www.aseanenergy.org>
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