Tuesday 3 April 2007: Kick-off Meeting of CAP REDEO (reserved for consortium members only)

Wednesday 4 April 2007 morning: Workshop (open on invitation)

Session 1: Opening speeches

- European delegation in Vientiane
- Host country – MEM representative
- French Embassy representative

Session 2: GEOSIM - Rural Electrification Planning using Geographical Information Systems (GIS)

Session 3: Discussions and recommendations

Wednesday 4 April 2007 afternoon: Training workshop on energy & development links, impacts & indicators

Thursday 5 mars 2007: Training workshop on database management and GIS

The CAP REDEO project: supported by "Intelligent Energy Europe" (IEEA), and French Ministry of Foreign Affaires (MAE)

Capacity and Institutional strengthening for rural electrification and development – decentralised energy options (CAP REDEO) is a program supported by the European Commission in the framework of its program COOPENER, and by the French Ministry of Foreign Affaires.

The global objective of the project in Laos and Cambodia is to improve the impact of rural electrification on sustainable development and poverty alleviation by establishing effective cross-sectoral investment and planning capacities using Geographical Information Systems as the convening factor. Both countries will develop technical capacity and be endowed with hands on tools to direct investments and decide between off grid and on grid options, renewable or fossil fuel based off grid production – and priority projects from the perspective of maximising development impact of scarce resources.

This can only be achieved through a hands-on “learning by doing” approach wherein a focus group will be formed at the National level, and at the Provincial levels. Specific training sessions will be organised. Regular meetings of the working groups will ensure sharing of knowledge and ownership building.

The European coordination is ensured by the Consulting company Innovation Energie Développement (IED, France), and ETC Foundation (ETC, Netherlands) is partner.

The project is essentially articulated through the following:

- ✓ Establishment of a national level multisector working group which will work on rural electrification planning issues, articulate multi-sector development, formulate planning objectives and comment on scenario results, provide inputs for developing a national level convening tool;
- ✓ Development of a concrete Provincial level rural electrification development programme using the GEOSIM tool and suggest implementation modalities
- ✓ Establishment of a Provincial level working group to validate the Provincial level plan;
- ✓ Trained focus groups amongst the associates on:
  - data base structuring, use of Geographical Information Systems; establishment, use and maintenance of a multisector national level data base for rural electrification and development planning
  - techno economic aspects of grid, off grid and renewable energy projects; Load forecasting; financial and economic analysis;
  - energy and development links, impacts and indicators; participatory planning and validation of investment plans;
  - the GIS based planning tool GEOSIM.

CAP REDEO is being implemented in Laos PDR and in Cambodia. In each concerned country, the project CAP REDEO is implemented through close cooperation with local institutions (ministries, utilities, regulators), private stakeholders, and partnership with local companies.

From 3 to 5 April 2007 Vientiane, Lao PDR

Meeting week:

- Kick off,
- Workshop,
- Trainings

CAP REDEO Capacity and Institutional strengthening for rural electrification and development – decentralised energy options

Coordinator: IED

Partner: ETC ENERGY

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MINISTÈRE DES AFFAIRES ÉTRANGÈRES

&

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Workshop on "Rural electrification Multi-criteria planning using GEOSIM tool"
Vientiane, Laos PDR, April 4, 2007

Intelligent Energy Europe

Coordinator: IED

Partner: ETC ENERGY

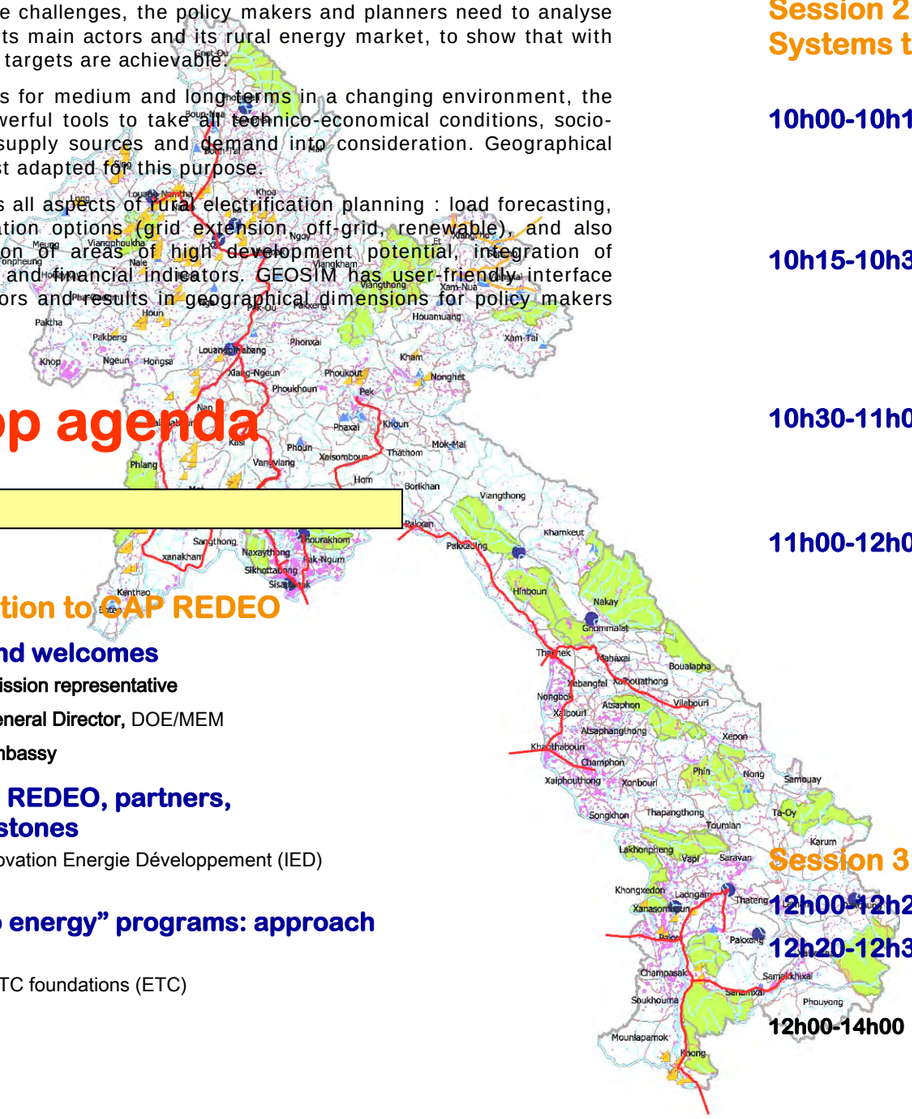
Why a GIS-based tool GEOSIM for rural electrification in Cambodia and Lao PDR?

Rural electricity services play a key role in rural development because the access to affordable, reliable and safe electricity can greatly improve food, education and health services, as well as improving opportunities for income generation.

Cambodia and Laos PDR are two members of ASEAN with very low rate of rural electrification. Currently, their respective electrification rates are around 17% and 35%. The governments of Cambodia and Laos have formulated their rural electrification policy as a part of wider rural transformation and poverty alleviation perspective. The target for rural electrification is to reach 70% of Cambodia rural population and 90% of Lao rural population within 20-30 years. To meet these challenges, the policy makers and planners need to analyse the options and perspectives: its supply sources, its main actors and its rural energy market, to show that with the mobilisation of all means and resources, these targets are achievable.

To establish the optimal energy planning scenarios for medium and long terms in a changing environment, the authorities and developers need adapted and powerful tools to take all technico-economical conditions, socio-environment aspects, geographical allocation of supply sources and demand into consideration. Geographical Information System (GIS) based tools are the most adapted for this purpose.

GEOSIM, GIS-based tool developed by IED, covers all aspects of rural electrification planning : load forecasting, technico-economic comparison of various generation options (grid extension, off-grid, renewable), and also development impacts related issues: identification of areas of high development potential, integration of development impact indicators beyond economic and financial indicators. GEOSIM has user-friendly interface and web-base capacity to represent data, indicators and results in geographical dimensions for policy makers and planners to make right and optimal decisions.



Detailed Workshop agenda

Wednesday 4 April 2007

8h00-8h30 **Registration**

Session 1: Opening and introduction to CAP REDEO

8h30-9h00 **Opening remarks and welcomes**

Mel Jones, European Commission representative

Houmphone Bulyaphone, General Director, DOE/MEM

Representative of French Embassy

9h00-9h15 **Introduction to CAP REDEO, partners, objectives and milestones**

Anjali Shanker, Director, Innovation Energie Développement (IED)

9h15-9h30 **ETC and "access to energy" programs: approach and practices**

René Magermans, Expert, ETC foundations (ETC)

9h30-10h00 **Coffee break**

Wednesday 4 April 2007 (continue)

Session 2: GEOSIM - Geographical Information Systems tool for Rural Electrification Planning

10h00-10h15 **Rural electrification situation in Laos PDR: planning approaches and practices**

Mr. Houmphone B., General Director, Department of Electricity (DOE / MEM)

10h15-10h30 **Rural electrification situation in Cambodia: planning approaches and practices**

HE Tun Lean, General Director, General Department of Energy (MIME)

10h30-11h00 **GEOSIM – GIS based Rural Electrification Planning tool: approaches**

Denis Rambaud-Messon, Managing Director IED

11h00-12h00 **GEOSIM – GIS based Rural Electrification planning tool: Applications and case studies**

- National level – Ethiopia
- Internet application – Burkina Faso
- Regional development with focus on mini hydro – Cameroon
- Regional development with focus on grid extension - Niger

Cyril Perret, Expert IED

Session 3: Discussion and conclusions

12h00-12h20 **Roundtable discussions and open remarks**

12h20-12h30 **Conclusions by IED**

12h00-14h00 **Lunch**