

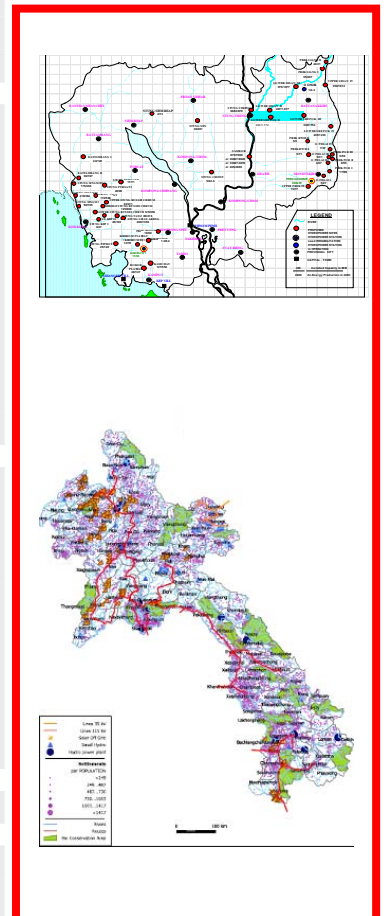


## Project Fact Sheet

Created/updated: March 2007

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

<b>Programme area:</b>	COOPENER
<b>Target countries:</b>	Cambodia and Laos PDR
<b>Status:</b>	ongoing
<b>Coordinator:</b>	Innovation Energie Développement (IED) France E-mail: <a href="mailto:ied@ied-sa.fr">ied@ied-sa.fr</a> Tel: +33-4 72 59 13 20
<b>Partners:</b>	ETC foundations, the Netherlands
<b>Subcontractors:</b>	Innovation Energy Group (IEG), Cambodia SV company, Laos PDR
<b>Associates</b>	Ministry of Industry and Mines (MIME), Electricité du Cambodge (EDC), Electricity Authority of Cambodia (EAC); Ministry of Energy and Mines (MEM), Electricité du Laos (EDL)
<b>Website:</b>	<a href="http://www.cap-redeo.com">www.cap-redeo.com</a>
<b>Objective:</b>	Improve the impacts of rural electrification on poverty alleviation by establishing effective multi-sectoral investment and planning capacities and instruments using GIS as the convening factor. Formulate appropriate policies and instruments to reach this goal.
<b>Benefits:</b>	<ul style="list-style-type: none"> <li>- National level rural electrification and development tool</li> <li>- Provincial level rural electrification and development programmes</li> <li>- Operational groups familiar with rural electrification planning as an input to rural development, planning approaches and the proposed tools</li> <li>- Replicable training programmes</li> </ul>
<b>Keywords:</b>	Rural electrification, GIS database, multi-criteria planning
<b>Duration:</b>	12/2006 – 12/2009
<b>Budget:</b>	€ 690,322 (EU contribution: 50%)
<b>Contract number:</b>	EIE/06/265/SI2.447980



#### Short description

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 (GIS) 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 areas 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 exchanges and ownership building.

The project is essentially articulated through the following activities:

- Establishment of a national level multisector working group which will work on rural electrification planning issues, articulating 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 Provincial level working groups to validate the Provincial-level rural electrification plans;
- Trained focus groups amongst the associates on:
  - Data base structuring, use of Geographical Information Systems; establishment, use and maintenance of a multi-sector 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 tool for rural electrification planning

### Expected and/or achieved results

- Establishment of national level data base with GIS interface with all available rural electrification, rural development and potential energy resource data;
- Concrete plan for electrification plan at Provincial level comparing grid extension and isolated grid – connected or not to the main source – various scenarios and GIS interface;
- Planning, institutional frameworks and policies – multisector integration of rural electrification – national level;
- For provincial level, rural electrification and development plans and implementation strategy;
- Training on tools and institutional / policy level capacity strengthening. Replicable training programmes;
- Operational groups familiar with policy issues articulating rural electrification as an input to rural development dynamics;
- A GIS bases rural electrification planning tool, GEOSIM, adapted to the local context and usable by an adequately trained in country focus group.

Expected outcome will be the improved capacities for delivering energy services for poverty alleviation, both in terms of technical skills and tools: an operational planning approach for rural electrification investments and therefore the provision of sustainable energy services for poverty alleviation, at national and provincial levels.

In the intermediate term, a more development-oriented integrated approach, involving national and local stakeholders from different sectors and demonstrating the social and economic impacts of rural electrification projects on poverty alleviation, will bring additional investment in the sector. Also the project outcomes will provide the necessary concrete inputs needed for formulation of the energy policies by the national governments.

### Lessons learnt

This project has just started. It is therefore too early to draw lessons.