



Turun yliopisto
University of Turku



INES Project

Energy Data Collection and Planning

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INES PROJECT

INTERLINKAGES BETWEEN ENERGY AND LIVELIHOODS – DATA, TRAINING AND SCENARIOS FOR SUSTAINABLE ENERGY PLANNING IN LAOS

- **Two main tasks:**
 - **Energy data collection**
 - **Development of energy planning in Lao PDR**





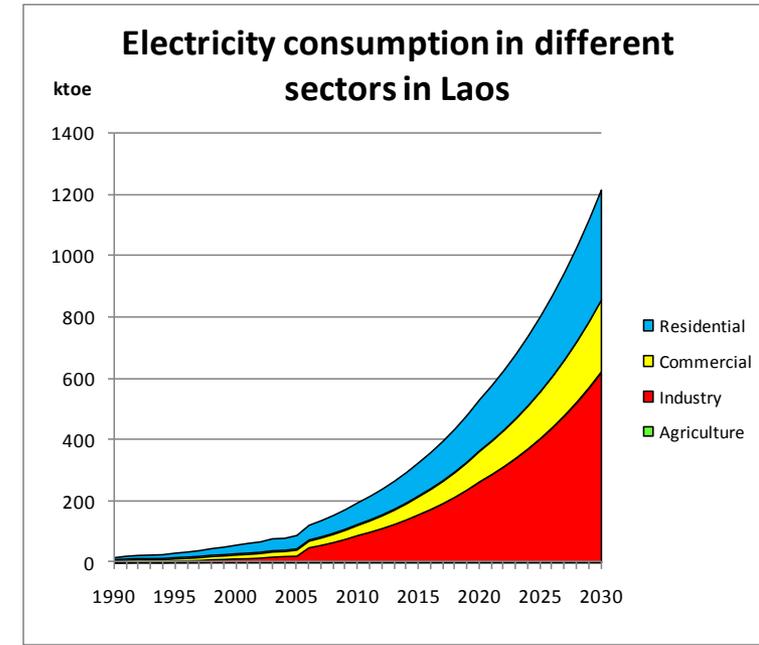
PURPOSE:

- (i) collect data on household energy consumption patterns and their impact on livelihood**
- (ii) collect data on energy use in industry, agriculture and transportation**
- (iii) develop energy planning models in cooperation with different Ministries of Government of Lao PDR**



PURPOSE (CONT.)

- (iv) carry out training and capacity building in energy model development and their use in energy planning
- (v) create scenarios for planning purposes together with different Ministries and disseminate the information





ENERGY DATA COLLECTION



- Household energy data was collected through:
 - 12 Focus Group Discussions
 - Household and village leader survey
- Survey covered 2000 households and the leaders of the sample villages in different geographical and ecological areas of Laos
- Carried out by Indochina Research Ltd. IRL



ENERGY DATA COLLECTION

Data was collected of energy use in

- Industry
- Agriculture
- Transportation
- Households
- Commercial sector



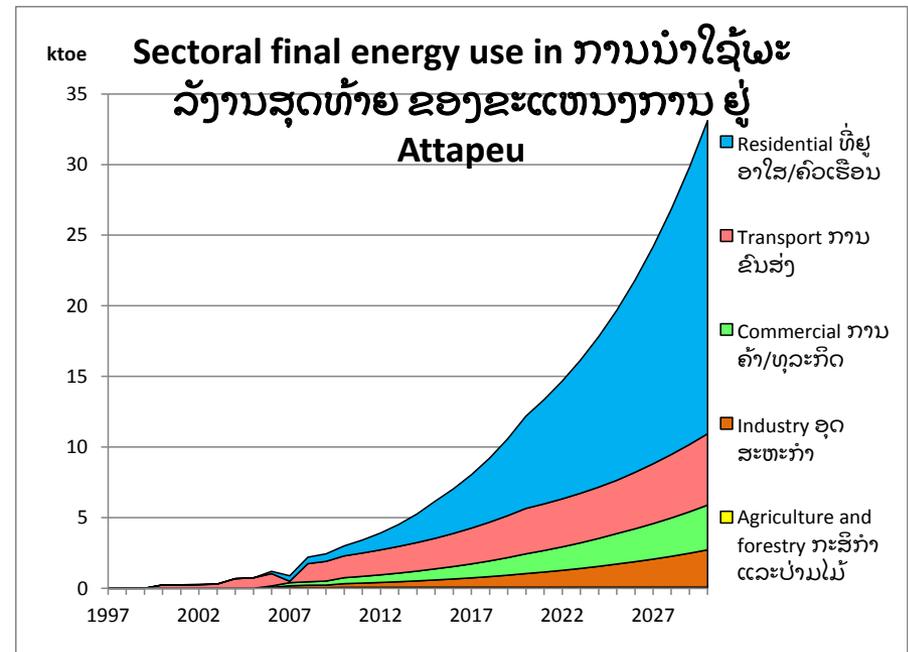
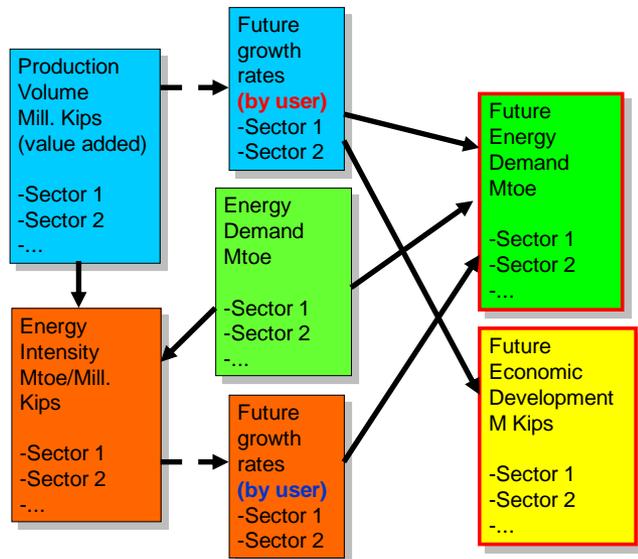
Data was collected by Khum Business Ltd. and

Provincial Departments of Energy and Mining and Planning and Investment collected provincial level data



MODELS

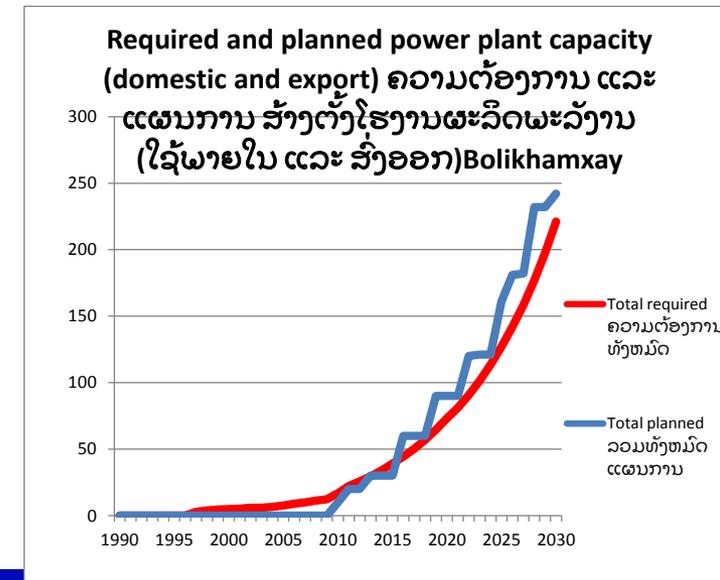
- ❑ collected data was used as input for energy modelling tools (LaoLinda and LEAP) at national level
- ❑ models were further developed in close cooperation and for the needs of the different provinces in Laos





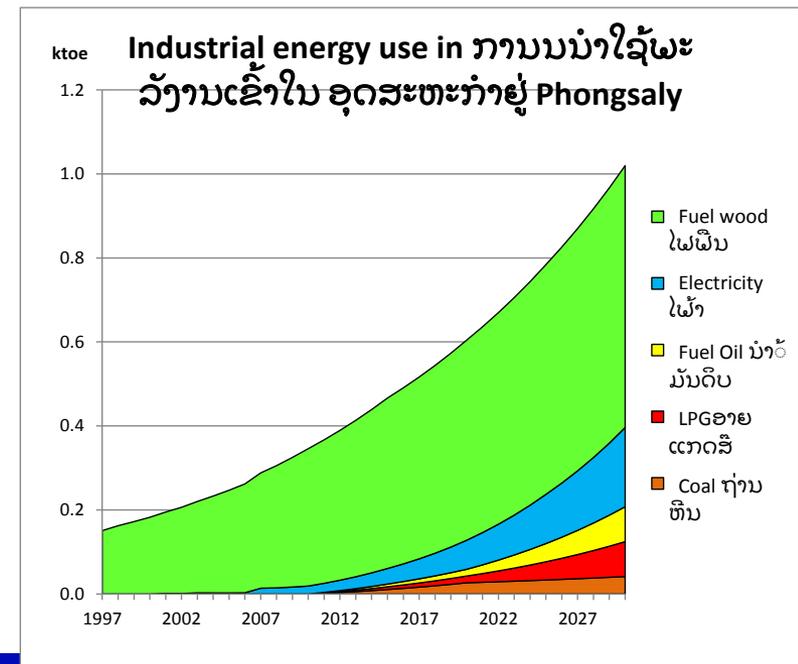
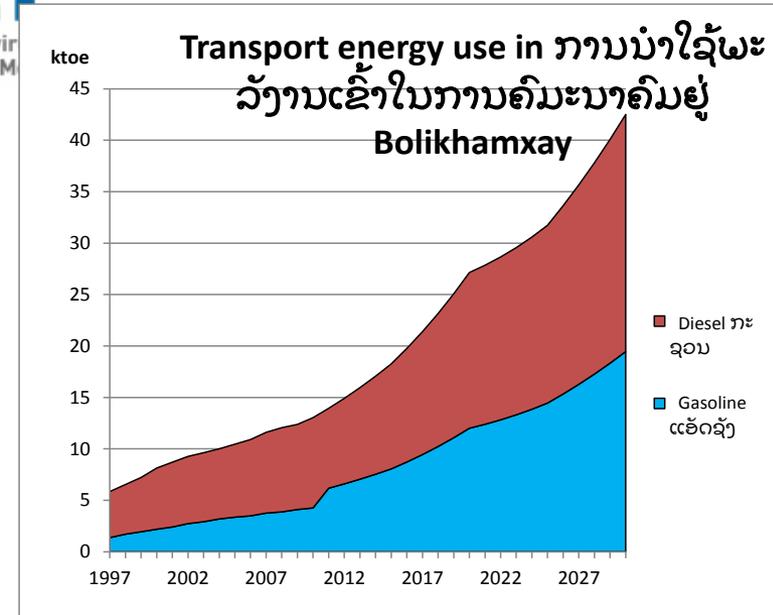
TRAINING AND CAPACITY DEVELOPMENT

- ❑ training was organized for national and provincial government representatives
- ❑ construction and development of energy modelling tools and data collection for models
- ❑ creating and utilizing energy scenarios



PROJECT TARGET

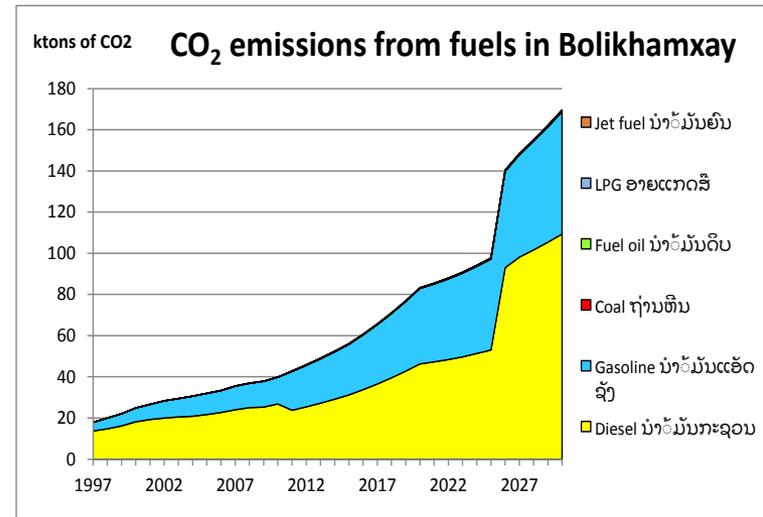
- ❑ produced provincial data on energy consumption and livelihoods in Laos
- ❑ energy modelling tools developed for each Province in Laos and translated in Lao
- ❑ energy scenarios were developed together with the provincial participants





MODELS

- Purpose of developed models is to get more detailed understanding of
 - What affects the energy use
 - How energy use is connected to economy
 - What are impacts of energy use
 - What issues have an impact on others (e.g. new factory -> more energy use -> need for new power plant, need for new roads, housing, schools etc.)
- Target was to get a comprehensive picture of energy sector and its linkages and impacts to other activities





NEXT STEPS?

- What is still needed?
- Planning the organisation of annual data collection in the future
- Further development of provincial and national models and capacity to use them in planning
- Training how to promote sustainable development in energy planning





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THANK YOU



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