

Project

Sustainable Climate Change and Energy Education
Development
(HEI-ICI-SUCCEED)

Higher Education Institutions Institutional Cooperation
Instrument

Project History

- Sustainable Energy Education Development (SEED, 2011-2012) , HEI-ICI collaborations
- Sustainable Climate Change and Energy Education Development (SUCCEED) 2013-2015

Finish

- Finish Futures Research Centre (FFRC), University of Turku

Laos

- Faculty of Engineering, National University of Laos
 - Mechanical Engineering Department
 - Electrical Engineering Department
 - Environmental Engineering Department
 - Water Resource Engineering Department

Background

Objectives of FEN to SUCCEED

- To provide Master Course of Energy Engineering in future
 - Train lecturers to be able to have research writing skill.
 - Train lecturers to update their knowledge on Energy engineering and Climate Change mechanism, climate change mitigation, climate economic and carbon markets
- To improve energy to be sustainable with the link of climate change adaptation.

Activities by SUCCEED Project's Supporting

Since September 2013- Now

1st Training, 9-13th September 2013

1. Introduce to Renewable energy
2. Research methodology
3. Introduce for impact of energy development on Environment and Social.

Supported the FEN' lecturers to attend Workshop on PESS In November 2013



Site visit at Nam Luak 1-2 Hydropower Project In September 2013



2nd Training, 3rd-8th February 2014

1. Climate change: an introduction
2. Vulnerability Impact Assessment
3. EIA, SIA
4. Global energy use & CO₂ emissions

Site visit Xayabouly Hydropower Project In February 2014



SUCCEED supported for workshop on Mechanical Engineering, guest lectures from Major and Chiangmai University (Visiting at FEN in May 2014)



3rd training, 8-12th September 2014

1. Research Methodology: Quantitative research & Survey
2. Estimation of village energy demand
3. Off grid energy planning with HOMER
4. Environmental and social impact assessments

Site visit at WATTAY International Airport In September 2014 "Solar PV System "



1st-3rd Training Results

1. Staffs be able to write research proposal in correct way
2. Be able to calculate energy demand by using HOMER software
3. Be able to assess the environment and social impacts from Hydropower and mining processing project
4. and be able to set up EMMP for projects.

Future Site Visiting at Nam Ngiep Hydropower 3A, on 15th -17th
January 2015, at FEN

Future Training on 19th -23th January 2015, at FEN

- Pedagogics for university teaching
- VIPOR small grid planning programme
- Climate change governance
- LEAP- The Long-range Energy Alternatives Planning System

- Preparing the syllabus of Energy Master Course Program

Futures Keys for green growth

- Increase the training on the link of climate change, Energy and green growth
- More practice on CO2 emission estimation
- Increase the collaborative research on the climate changing adaptation
- more practice EMMP (Environmental Management Monitoring Planning) for hydropower projects

Future Researches at FEN

- Energy consumption
- Biogas producing from organic waste practice
- Prediction of Biodiesel Properties
- Environmental Impact Assessment at Mining Site, rubber Plantation and Production.
- Initial Environmental Examination at Banana Plantation.
- Estimation of village energy demand

THANK YOU