



EIE-06-256 REEPRO

Intelligent Energy  Europe

Promotion of the Efficient Use of Renewable Energies in Developing Countries

**REEPRO Level 3 Course 10
Training on Renewable Energies and PV
Laos, May 17th, 2009**

Authors

Community Development and Environment Association (CDEA)

May 2009

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1 Summary

Training: ການຝຶກ ອົບຮົມ	Training for community stakeholder
Task number: ເລກທີ ຂອງໜ້າວຽກ	05.02.10
Date, Location, : ວັນ ທີ, ສະຖານທີ່, ໂມງ	17.05.2009, 8.30-12.00 and 13:00- 16.00 Phoxai village, Mahaxai district, Khammuan provincet
Time:	
Theme: ຫົວຂໍ້ສົນທະນາ	Introduction of Renewable energy
Target group: ກຸ່ມ ເບົາໜາຍ	<input type="checkbox"/> Level 1: ລະດັບ 1 <input type="checkbox"/> Level 2 ລະດັບ 2 <input checked="" type="checkbox"/> Level 3 ລະດັບ 3
Performance: ເປີດ ພິທີ	5.30 hours presentation (5 speakers) followed by a 15 minute discussion. Presenters included with Dr. Khamphone, Mr. Bouangern, Mr. Khampat, Mr. Bounphon and Mr. Khonsamai
Participants: ຜູ້ ເຂົ້າຮ່ວມ	42 participants, see attached list of participants:
Short Description: ລາຍລະອຽດ ໂດຍຫຍໍ້	<p>This training had conducted in Phoxai village, which located far from the main road to Thakek district 13 km. The purpose of this training was to promote and raise awareness of stakeholders, community people to better understanding about the renewable energy. This training had 42 participants from 3 different villages, nearby Phoxai village. These villages would soon install solar home system, by the Individual Electricity Provider.</p> <p>This training therefore had significant means for users to better known and understanding how to operate and maintenance the system. Dr. Khamphone, trainer, had introduced general information about project and project partners. He then introduced about the energies use and renewable energies that there were many different dimensions as biomass, biogas, PV, biofuel and other. Basically, he addressed on PV, operating system and maintenance of solar home system. Explanation had used both clip charts and given an example. Moreover, other trainers had also introduced about benefit of using renewable energies as an appropriate technologies where the electricity could not access. One participant raised question, could we use solar home system to charge mobile phone or battery? Yes, Mr. Khampat, trainer, explained the solar home system be able to charge mobile and battery; however, he also advised to use ap-</p>

proximately 4 hours/day.

Download: ດາງໂລດ The presentations can be downloaded under www.solpool.info :
ບົດສະເໜີສະມາດ ດາວໂຫຼດຈາກ www.solpool.info

Location, date, signature: ສະຖານທີ່, ວັນທີ, ລາຍເຊັນ

Phoxai village, Mahaxai district, Khammuan Province, Laos

17.05.2009



2 Workshop Preparation

Since the program design, CDEA was the main responsible to organize the training level 2 and level 3 in Khammuan, middle Laos, CDEA through collaborated with NUOL team. CDEA had also collaborated with Individual Electricity Provider, Mr. Khamphat, who has experienced and provided solar home systems to the communities in Khammuan province, especially in Mahaxai district. Mahaxai was one of project communities that the reepro project had agreed to provide the trainings which would focus on Photovoltaic (PV).

This level 3 training had been conducted continuously when the training level 2 had been done. Due to there were village electricians invited from 6 different villages near by Mahaxai districts. Thusly, when the level 3 training was organized some of the trainees from level 2 had been invited and jointly conducted the training level 3 with the reepro team. It was very important that to ensure the trainees and would be the PV technical in their villages. CDEA and NOUL therefore selected three of trainees from level 2 to perform and send transformation what they had learned.

Then, the training had been organized at the temple yard in Phouxai village. Beside that training had also invited people from village administration, teachers, and villagers who would be PV users from 3 different villages nearby Phouxai village. This training had been including 3 from reepro project, Dr. Khamphon, Mr. Bouangern, Mr. Bounphon and 3 from level 2 trainee, Mr. Khamphat, Mr. Khonesamai and Mr. Vieng.

Due to Phoxai was village located at the centre and connection with another village; however the villages nearby Phouxai had also high demand of installation of solar home system. From the main road to venue where to organize the training was about 13 km through the narrow and forest. In particular, CDEA had decided to continuously perform the level 3 training after level 2, in order to save time and cost. Otherwise, when the rainy season would be very difficult to access; however, while we were conducting training some part of the road was very poor condition. Therefore, travelling for this training we had rent tuck to transport and delivery the stuff to the target village.

3 Workshop Performance

When the training level 2 had been done, the project team, including trainee from level 2 had continuously conducted the level 3 training. Transport and delivery stuffs to the target area, we had organized one 4 wind tuck because the road was very poor condition.

In the training had included with persons who were responsible for;

- Dr. Khamphon, level 2 trainer and supportive level 3
- Mr. Bouangern, level 2 trainer and supportive level 3
- Mr. Bounphon, training assistant
- Mr. Khamphat, level 2 trainee and level 3 trainer

- Mr. Khonesamai, level 2 trainee and level 3 trainer
- Mr. Vieng, level 2 trainee and level 3 trainer

This training had jointly performed with CDEA, NUOL and trainee from level 3 and also village electrician. The content and methods use for the training was the introduction of general information about renewable energy, its benefits, technical necessity (demonstrating device connections), maintenance the PV system, introduction about general knowledge about operating small business and quiz. To explain and identify about renewable energy and operating system, clip charts, posters and presentation had been used. This training had invited different speech in different theory depending on their speciality.

4 Programme

ຕາຕະລາງ ການຝຶກອົບຮົມເລື່ອງການນຳໃຊ້ພະລັງງານທົດແທນຢ່າງມີປະສິດທິພາບ

ເວລາ	ເນື້ອໃນ	ຜູ້ຮັບຜິດຊອບ
ມື້ທີ 1. 17/5/2009		
8: 30 – 8: 45	ເປີດພິທີ	
8: 45 – 9: 00	ນັກສຳມະນາກອນແນະນຳຕົວ	
9: 00 – 10: 00	ພະລັງງານໄຟຟ້າແສງຕາເວັນ	ທ່ານ ອາຈານ ຄຳພອນ
10: 00 – 10: 15	ຫຼິ້ນເກມ	
10: 00 – 12: 00	ການດຳເນີນທຸລະກິດຂະໜາດນ້ອຍ	ທ່ານ ບົວເງິນ
12: 00 – 13: 00	ພັກຫຼ່ຽງ	
13: 00 – 14: 45	ແນະນຳເລື່ອງການບົວລະບັດຮັກສາ	ທ່ານ ອາຈານ ຄຳພອນ
14: 45 – 15: 00	ຫຼິ້ນເກມ	
15: 00 – 16: 00	ປິດການຝຶກອົບຮົມ	ທ່ານ ບົວເງິນ
16:00	ພັກ	

5 List of participants:

ឈ្មោះមេមត់របស់អង្គការ អង្គការសហប្រតិបត្តិការ អង្គការសហប្រតិបត្តិការ REEPRO Stakeholder តារាង 3

ល.រ	ឈ្មោះមេមត់	អាស័យដ្ឋាន	អាស័យដ្ឋាន/ស្ថាប័ន	ជំនាញ	បទពិសោធន៍	កិច្ចសហប្រតិបត្តិការ				ផ្សេងៗ (ស្ថិតិ/សមាសភាព/ឧបករណ៍)
						សហការក្នុងគម្រោង	សហការក្នុងគម្រោង	សហការក្នុងគម្រោង	សហការក្នុងគម្រោង	
1	គ. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
2	ក. កែវ	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
3	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
4	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
5	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
6	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
7	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
8	គ. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
9	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
10	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
11	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
12	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
13	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
14	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
15	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
16	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
17	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
18	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
19	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				
20	ក. ឈុន	15០៣	ស្រុកស្រែចម្ការ	សហគមន៍		✓				

ગામી વીજળી

21	તા. જાં	15/02/09	જાંજા	વડોદરા		✓													
22	તા. ગાંધી	15/02/09	-	-		✓													
23	તા. જાં	15/02/09	-	-		✓													
24	તા. જાંજા	15/02/09	-	વડોદરા		✓													
25	તા. જાંજા	15/02/09	-	-		✓													
26	તા. જાંજા	15/02/09	-	-		✓													
27	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
28	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
29	તા. જાંજા	15/02/09	-	-		✓													
30	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
31	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
32	તા. જાંજા	15/02/09	-	-		✓													
33	તા. જાંજા	15/02/09	-	-		✓													
34	તા. જાંજા	15/02/09	-	-		✓													
35	તા. જાંજા	15/02/09	-	-		✓													
36	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
37	તા. જાંજા	15/02/09	જાંજા	વડોદરા		✓													
38	તા. જાંજા	15/02/09	-	-		✓													
39	તા. જાંજા	15/02/09	-	-		✓													
40	તા. જાંજા	15/02/09	-	-		✓													
41	તા. જાંજા	15/02/09	-	-		✓													
42	તા. જાંજા	15/02/09	-	-		✓													

રજીસ્ટ્રાર

તા. 17/5/09



13 km from the main road to Phoxai village



There were 42 participants attending the training, from 3 different villages



Mr. Khamphat, trainer, was explaining on Clip chart about benefit use of renewable energy



Reepro project had distributed T-shirt and caps for participants

6 Training material

The content of this training consists of general introduction about renewable energy and its benefits. Moreover, the training had focused on how to operate and maintenance the system





