IMPACT OF THE PV-BATTERY CHARGING STATION ON WOMEN AND THEIR LIVELIHOOD ACTIVITIES IN MALITBOG, SOUTHERN LEYTE

Outline

- DOE’s Barangay Electrification Program
  - Overview
  - Background
  - Status
  - Key players

- The Project
  - Sites
  - PV Battery Charging Station

- Findings
- Way Forward
Barangay Electrification Program (BEP)

Overview

- Supports the government’s 5-point reform package for Energy Independence through the aggressive development of RE potential such as biomass, solar, wind and ocean resources

- Energy Sector Goal: increase RE-based capacity by 100% to attain a 60% self-sufficiency level by 2010

Barangay Electrification Program

Background

- Accelerated Barangay Electrification Program (ABEP), 1999
- O’Ilaw Program, January 2000-March 2003
- Expanded Rural (ER) Electrification Program, April 2003-to date

100% Brgy. Electrification by 2008
### Barangay Electrification Program

#### Status

**STATUS OF BARANGAY ELECTRIFICATION**

*As of December 2004*

<table>
<thead>
<tr>
<th></th>
<th>Coverage</th>
<th>Energized/Completed</th>
<th>% Electrification Level</th>
<th>Unenergized</th>
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*Private-Investor Owned Utilities

Note: Total number of barangays is based on 2000 Census of Population

### ER Electrification Program

#### (2005 – 2008)

**Key players**

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<thead>
<tr>
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<th>2006</th>
<th>2007</th>
<th>2008</th>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>2</td>
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<tr>
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<td>1058</td>
<td>553</td>
<td>514</td>
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Energization Level, %

As of Dec. 2004
The Project

- Sites: Barangays Cadaruhan Sur and New Katipunan, Malitbog, Southern Leyte
- Not prioritized for energization by the Southern Leyte Electric Cooperative (SOLECO)
- RRA revealed that most HHs owned car batteries used for lighting, radio, karaoke, etc.
- Batteries are charged 12kms away @P50.00-70.00 w/ P50.00 transportation cost
The Project

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BARANGAY NEW KATIFUNAN

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The Project

- PV Battery Charging Station
  - 3-channel BCS & residential lighting in 70hhs
  - P20.00 charging & P80.00 monthly are collected by BAPA

General Findings

- **Organizational scheme**: Both barangays have existing groups to establish livelihood activities

- **Income-generating/livelihood activities**: Both areas have income-generating activities e.g. coconut, abaca, rice, corn. CS produces more vegetables while NK has diverted to cutflower production

- **Barriers to livelihood**: low price of produce, lack of rainfall, lack of capital, inadequate tools/farm equipment

- **Needed skills**: application of appropriate technology trainings & hands on practicum

- **Overall attitudinal outlook**: Positive change noted on existing livelihood and positive outlook towards BEP & establishing new livelihood projects
General Findings

- **Attitudinal reactions to BEP:**
  - Reduces anxiety over mischiefs & incidence of fire at night
  - Kerosene lamps are rarely used
  - Household tasks can be done at night
  - Emergency situations can be immediately responded to
  - HH needs increase; increasing expenditure
  - Improved road to market; accessibility

Findings

*Role of Women in Project Development*

- Women in both areas just like men were involved in development & share livelihood tasks
- Women appear more dominant in meetings & often represent the HHs while men tend to do farming activities
- During installation, men were mainly involved while women took charge in the preparation of food
- Collection of fees & record keeping were assigned to women
Findings

Role of Women in Project Dev’t (continued)

- Women expect extended working hours for HH chores while men have more time to do repair of farm tools
- Women are much noticeable in growing & harvesting crops, cut flowers, small scale vending in the neighborhood, layering single abaca twine
- Women now are involved in maintenance of the PV system

Findings

Socio-Economic Impact

- Women reduce idle time and have more time to do weaving, sewing & other activities e.g. blanket making
- Children spend more time at home
- Reduce exposure to kerosene soot
- Increase demand in skill trainings & livelihood activities
Way Forward

- Integration of rural electrification in rural development system
- Rural electrification should be complemented with livelihood activities and other micro-financing facilities from initial conception of the project
- Women should be involved in the entire process of project development