

Exploring the integration of household energy into the Alliance for Mindanao Off-grid Rural Electrification project



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Alliance for Mindanao Off-grid Rural Electrification (AMORE)

Background:

❑ Rural electrification in Philippines

- Philippine Department of Energy
- Private sector investment complements DOE program

❑ AMORE: USAID Mission program

- Electrify 160 villages with renewable energy in support of community development through productive applications (e.g. agricultural, fishing, aquaculture production and processing).
- Project objective supports broader USAID objective of fostering social and economic development and peace and order in Mindanao.
- Household energy (cooking, heating) not initially included in project scope.



AMORE Activities 2001-2003: Central Mindanao, Tawi-Tawi and Basilan

- Community consultations
- Rural energy demand assessments
- Social/community preparation



Over 100 villages surveyed thus far, including:

- HH energy mix by village
- Monthly income & expenditures (e.g. fishing, farming, livestock, seaweed production)
- Expenditures for lighting (kerosene, diesel)
- No cooking-related data



Integrate household energy into rural electrification program?

- ❑ Anecdotal evidence suggested that IAP is a problem in the AMORE project area
- ❑ Opportunity:
 - leverage large project, national program
 - Support productivity objectives



Locally-made cement stove



Indoor open fire

- ❑ 2003: USAID/Global initiated support for exploratory study



Exploratory Study: HHE Survey and IAP Monitoring

- ❑ December 2003: Winrock piggy-backed on existing rural electrification survey (ongoing)
 - New questions: Cooking area, fuel acquisition and use, cooking practices, presence of children under 5.
 - Revised survey applied by AMORE team in new batch of villages.
- ❑ In consultation with health and IAP monitoring experts, Winrock has developed household survey and monitoring instruments to gather more detailed data on:
 - Cooking area, practices, fuels, technologies and expenditures
 - Reported health symptoms of primary cooks and children, and perceptions of health impacts from smoke
 - Indoor concentrations and exposure rates for respirable particles and CO



Activities in 2004

☐ AMORE team will conduct focus group, survey and preliminary monitoring activities

- Survey only:
40 hh in each of 3 project areas
- IAP monitoring:
30 hh total in same areas
- 2 phases: dry & rainy seasons



☐ Outcomes will help to guide decisions

- Whether a HHE intervention is recommendable
- Nature of such an intervention



AMORE, HHE and Health



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