

PROJECT EVALUATION SUMMARY (PES) - PART I PD-ABA-384
Report Symbol U-

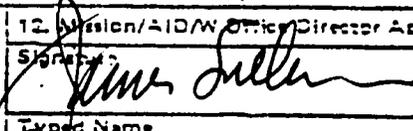
1. PROJECT TITLE Small Decentralized Hydropower Project	2. PROJECT NUMBER 936-5715	3. MISSION/AID/W OFFICE S&T/EY 4475
4. EVALUATION NUMBER (Enter the number maintained by the reporting unit e.g., Country or AID/W Administrative Code, Fiscal Year, Serial No. beginning with No. 1 each FY) Final Evaluation <input checked="" type="checkbox"/> REGULAR EVALUATION <input type="checkbox"/> SPECIAL EVALUATION		

5. KEY PROJECT IMPLEMENTATION DATES First PRO-AG or Equivalent FY <u>80</u> Final Obligation Expected FY <u>85</u> Final Input Delivery FY _____	6. ESTIMATED PROJECT FUNDING (000) A. Total \$ <u>4,446</u> B. U.S. \$ <u>4,446</u>	7. PERIOD COVERED BY EVALUATION From (month/yr.) <u>July 1984</u> To (month/yr.) <u>December 1988</u> Date of Evaluation Review <u>December 1988</u>
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8. ACTION DECISIONS APPROVED BY MISSION OR AID/W OFFICE DIRECTOR

A. List decisions and/or unresolved issues; cite those items needing further study. (NOTE: Mission decisions which anticipate AID/W or regional office action should specify type of document, e.g., airgram, SPAR, PIC, which will present detailed request.)	B. NAME OF OFFICER RESPONSIBLE FOR ACTION	C. DATE ACTION TO BE COMPLETED
Project terminated; no action decisions required.		

9. INVENTORY OF DOCUMENTS TO BE REVISED PER ABOVE DECISIONS <input type="checkbox"/> Project Paper <input type="checkbox"/> Implementation Plan e.g., CPI Network <input checked="" type="checkbox"/> Other (Specify) <u>None</u> <input type="checkbox"/> Financial Plan <input type="checkbox"/> PIC/T <input type="checkbox"/> Logical Framework <input type="checkbox"/> PIC/C <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> Project Agreement <input type="checkbox"/> PIC/P	10. ALTERNATIVE DECISIONS ON FUTURE OF PROJECT A. <input type="checkbox"/> Continue Project Without Change B. <input type="checkbox"/> Change Project Design and/or Change Implementation Plan C. <input type="checkbox"/> Discontinue Project
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11. PROJECT OFFICER AND HOST COUNTRY OR OTHER RANKING PARTICIPANTS AS APPROPRIATE (Names and Titles) N/A	12. Mission/AID/W Office Director Approval Signature:  Typed Name: James Sullivan, Director S&T/EY Date: _____
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13. Summary

The previous evaluation team assembled in Washington D.C. on June 18, 1984 to review the scope-of-work and to receive various briefings and interviews. The team also attended an all-day presentation and question-and-answer session at the offices of the NRECA. The evaluation team consisted of one member each from the Midwest Research Institute, the Organization of America States, and the Idaho National Engineering Laboratory.

In general, the evaluation team felt that the NRECA has responded well on the tasks assigned to them. They had been responsive to the Mission requirements and their performance on front-end planning and resource assessment activities had been good. Between June 1982 and May 1984, the NRECA had provided technical assistance to approximately 15 countries, conducted a workshop in Swaziland (June 1983), conducted two study tours in the U.S., and conducted a 2-day seminar on private sector participation. The NRECA had also initiated work on a Micro-Hydropower Sourcebook and a SDH Economics Handbook. The SDH data base was judged as an excellent one for identifying worldwide projects and key individuals.

The evaluation team identified several weaknesses in the NRECA efforts. The NRECA was slow to respond to the requirement to prepare certain critical documents, such as the Micro-Hydropower Source Handbook. They also had not displayed much creativity in anticipating future needs. In general, the team felt that the NRECA had tended to guide the SDH program toward their own capabilities, i.e. resource assessments, planning and training. The evaluation team would have preferred more focus on involving good engineering and/or private A&E firms in the program and toward seeking private sector participation.

The final evaluation, completed in November 1988, contained the following principal conclusions:

Project Economics

Models for the basic economics of micro-hydro, isolated mini-hydro and grid-connected mini-hydro as applied to rural electrification should be established. Further, methods for quantifying the benefits of these facilities should also be developed and agreed upon. Facility development projects take so long that the initial economic conditions have changed and the economic projections never materialized. The project that was economically feasible at the start is no longer economic when the plant comes on-line.

Leveraging Funds

A.I.D. needs to be more aware of similar projects by other donor agencies in an LDC and the potential for private sector involvement in the design, financing and implementation of SDH facilities.

Program Management

A series of program management issues surfaced during the course of the SDH Program that should be re-evaluated for future programs. These issues included change of program management personnel, differing objectives among various A.I.D. organizations, and continuity of program funding sources.

14. Evaluation Methodology Final evaluation of a completed project.
15. External Factors Not pertinent at this time (N.P.).
16. Inputs N.P.
17. Outputs N.P.
18. Purpose N.P.
19. Goal/Subgoal N.P.
20. Beneficiaries Principal beneficiaries are most probably users of energy from SDH off-grid facilities in LDC rural areas, i.e. households and small village entrepreneurs using electricity in business operations. NRECA was clearly a beneficiary with its improved resources on SDH including: library of over 4,000 references and 2,000 slides of operating installations; talent bank of over 200 specialists in engineering, economics, and social aspects of SDH development; and the enhanced ability to operate with international organizations and other organizations in expansion of SDH worldwide.
21. Unplanned Effects N.P.
22. Lessons Learned Contractors for technical assistance under centrally funded projects require continuing and accurate information on the availability of bilaterally- and multilaterally- funded project resources in the same area of technology.
23. Remarks Maintain consistent direct relationships for project management between the technical office and the contractor during the life-of-project.

Title:

Impact Assessment of
The Low Cost Energy Technology Project (936-5701)
The Energy Technical Service Support Program (936-5702)
The Small Decentralized Hydropower Program (935-5715), 93 pgs.