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An Analysis of AID's Automated Data

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## SECTION ONE

### OVERVIEW

The purpose of this report is to examine rural electrification projects financed by AID.\* An examination of AID's automated data bases indicates that there are 32 projects that in some manner involve rural electrification. Six of the projects PCI identified are in the planning stage, 14 are active, and 12 have been completed or terminated.\*\* The data bases contain a total of 6 evaluation studies for these 32 projects: 1 Project Appraisal Report and 5 Special Evaluations.

PCI's review of the automated data on these 32 projects suggests that:

- In terms of rural electrification activity, the geographic Bureaus cluster into two categories: Asia and Latin America are very active, while the Near East and Africa display little or no activity.
- All indicators of relative activity (number of projects, total planned obligations, average project size) show the Asia Bureau to be the most active geographic Bureau.
- The Latin America Bureau finances almost as many projects as the Asia Bureau. However, the average size of a project sponsored by the Latin America Bureau is half that of the Asia Bureau.

\*/ This is the third in a series of brief analyses that are being undertaken by PCI for the Special Studies Division (AID/PPC/E/S). The first two reports examined potable water and irrigation projects.

\*\*/ Data for this analysis comes from automated AID files: TEXT, BREF, PBAR, and ACCT. The data bases were developed using the following criteria: all projects that were active in October 1974 and all subsequent project activity. Additional projects may have been undertaken. A search is now being made of AID's archive file (PAISHIST) to retrieve older AID financed projects. The data available from this file is scant. However, if a project title contains a key term--e.g., electrification--it will be counted.

- New project development is moving fastest in Asia. Latin America has been consistently active in recent years.
- The Africa Bureau is not pursuing rural electrification as a project activity.\*

Table I-1 displays projects by Bureau and status. As the table shows, the Asia and Latin America Bureaus account for the vast majority of

TABLE I-1

BUREAU	PROJECT STATUS			
	PLANNED	ACTIVE	COMPLETED/ TERMINATED	TOTAL
AFRICA	0	0	0	0
ASIA	3	6	6	15
LATIN AMERICA	2	6	3	11
NEAR EAST	1	1	1	3
CENTRALLY FUNDED	0	1	2	3
TOTAL	6	14	12	32

rural electrification projects. When only active and planned projects are taken into account, Asia and Latin America have sponsored an almost identical number of projects. A comparison of planned and completed projects shows the Asia Bureau to be both the most active Bureau in earlier years and the most active planner of new rural electrification efforts.

\*/ AID should expect that a "mapping" of energy projects, as opposed to simply electrification schemes, would provide a somewhat different world-wide picture.

The fact that there have been no electrification projects in the Africa Bureau does not necessarily indicate a lack of interest in the type of impact that is presumed to be associated with electrification. The Africa Bureau is involved in a number of energy demonstration projects that, on a small scale, are expected to provide the power required to increase production, improve health, etc. For example, in Senegal, AID has irrigation efforts that use both solar and hydro pumps; in Upper Volta a solar pump is being tested for a village water system, etc.

The similarity between the Asia and Latin America Bureaus breaks down slightly when the projects are examined over time. As Table I-2 displays,

TABLE I-2  
PROJECTS BY BUREAU AND START DATE

BUREAU	BEFORE 1960	1961-1963	1964-1966	1967-1969	1970-1972	1973-1975	1976-1978	PLANNED	TOTAL
AFRICA	0	0	0	0	0	0	0	0	0
ASIA	0	1	1	1	2	3	4	3	15
LATIN AMERICA		0	0	2	2	2	2	-2	11
NEAR EAST	0	0	1	1	0	0	0	1	3
CENTRALLY FUNDED	0	0	0	0	1	0	2	0	3
TOTAL	1	1	2	4	5	5	8	6	32

the Asia Bureau has been most active in recent years, with 3 projects in the planning stage and 4 projects with start years between 1976 and 1978 inclusive. The Latin America Bureau has a total of 2 projects in the planning stage and 2 with start dates between 1976 and 1978. The Near East Bureau has one project in the planning stage, but has not financed an active rural electrification effort in 10 years.

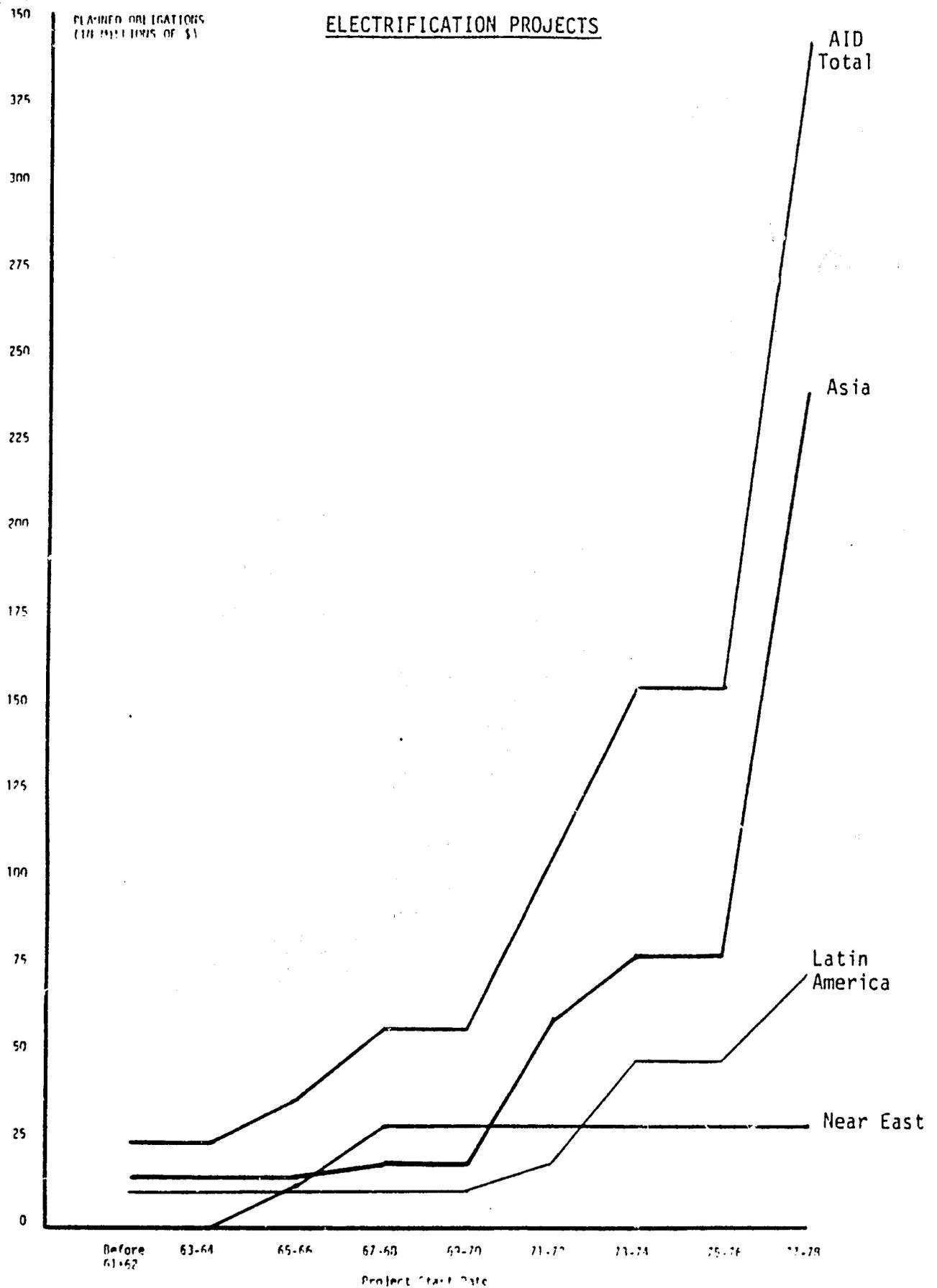
The 27 rural electrification projects for which data on planned obligations is available suggest that AID has an investment of almost half a billion dollars in this sub-sector (see Table I-3).<sup>\*</sup> Figure I-1 displays a plot

TABLE I-3  
DISTRIBUTION OF PROJECTS BY BUREAU AND PROJECT SIZE

BUREAU	NUMBER OF PROJECTS*	TOTAL PLANNED OBLIGATIONS (THOUSANDS)	% OF ALL PLANNED OBLIGATIONS	AVERAGE PROJECT SIZE (THOUSANDS)
AFRICA	0	0	0	0
ASIA	13	277,760	64.6%	21,366
LATIN AMERICA	9	92,801	21.6%	10,311
NEAR EAST	3	58,819	13.7%	19,606
CENTRALLY FUNDED	2	405	0.1%	203
TOTAL	27	429,785	100%	15,918

\* Excludes projects for which financial data unavailable: Asia - 2 projects  
Latin America - 2 projects  
Centrally Funded - 1 project

<sup>\*</sup>/ Planned obligations were chosen as indicators of size because they are the most consistently available cost data for projects of all stages.



CUMULATIVE PLANNED OBLIGATIONS

of cumulative planned obligations by year for these 27 projects. Figure I-2 presents the number of projects, their planned obligations, and their start years by Bureau. Worldwide, the average size of AID-sponsored rural electrification projects is almost \$16 million. However, this worldwide average conceals a wide range of regional averages. The Asia Bureau accounts for over \$277 million in planned obligations for rural electrification projects, and a per project average of over \$21 million. This means that over 64% of total planned obligations for rural electrification can be found in the Asia Bureau. The three Near East electrification projects average over \$19 million in planned obligations, but the Latin America Bureau accounts for a greater total amount of money because of the greater number of projects.

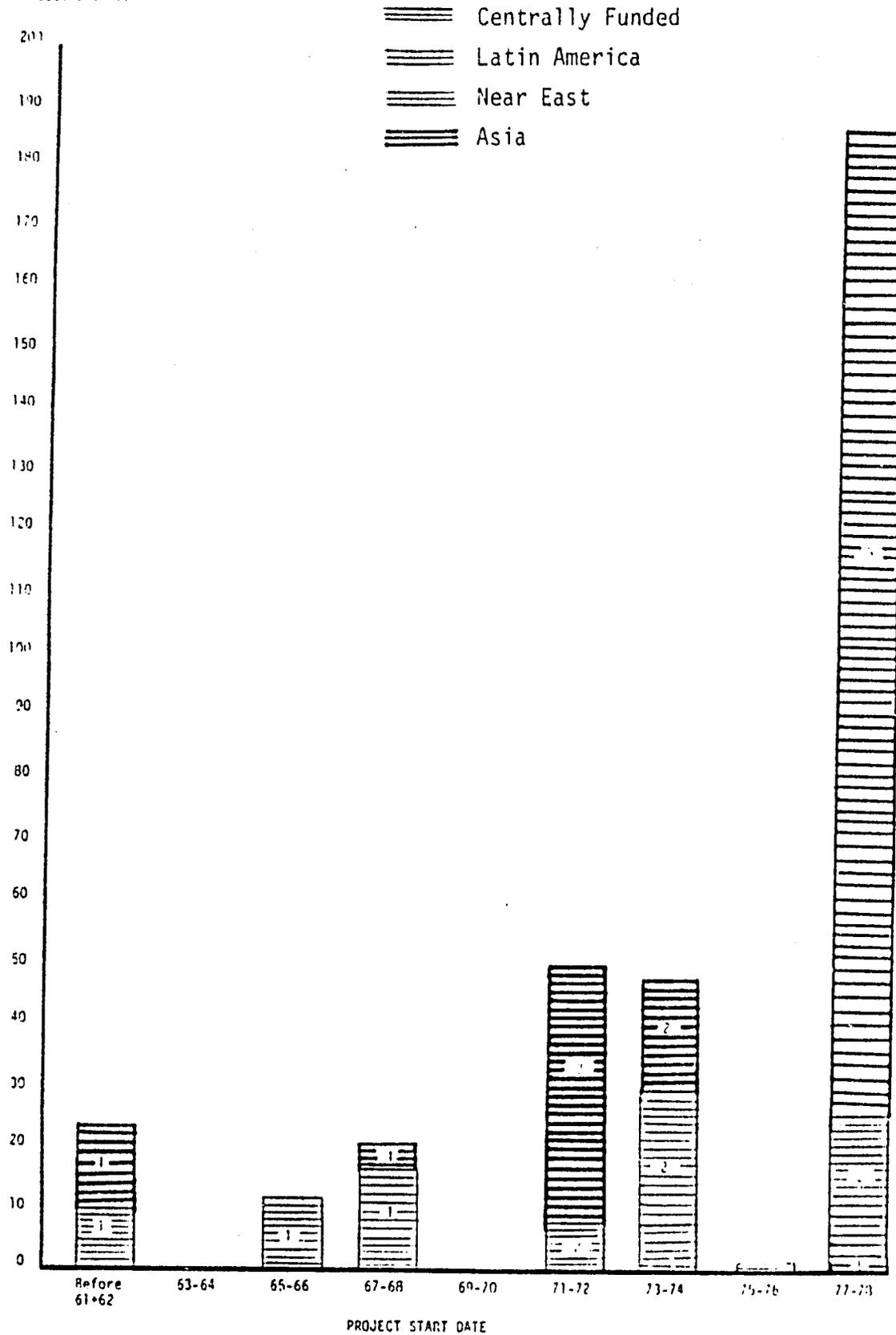
The project cost data seem to suggest that there is not a one-to-one relationship between number of projects in a Bureau and size of projects sponsored by that Bureau. As Table I-3 indicates, the Asia Bureau has a large number of projects and a large average size. The Near East Bureau has a large average size but a small number of projects. The Latin America Bureau has a large number of projects which on average are half the size of the Asia Bureau projects.

The differences in average project size by Bureau suggest that the total resource allocation picture will show an uneven distribution. Table I-4

**TABLE I-4**  
**DISTRIBUTION OF PLANNED OBLIGATIONS BY PROJECT SIZE**

PLANNED OBLIGATIONS	NUMBER OF PROJECTS	% OF TOTAL PROJECTS	PLANNED OBLIGATION (THOUSANDS)	% OF ALL PLANNED OBLIGATIONS
Over \$40 million	2	7.4%	105,000	24.4%
\$20 to \$40 million	5	18.5%	162,099	37.7%
\$10 to \$20 million	9	33.3%	131,532	30.6%
\$5 to \$10 million	2	7.4%	14,688	3.4%
\$1 to \$5 million	5	18.5%	15,769	3.7%
Under \$1 million	4	14.9%	697	0.2%
TOTAL	27	100%	429,785	100%

PLANNED OBLI  
GATIONS (\$)  
MILLIONS OF \$)



PLANNED OBLIGATIONS FOR ELECTRIFICATION PROJECTS  
AND NUMBER OF NEW PROJECTS\* BY BUREAU BY YEAR

\*/ Excludes new projects for which data on obligations were not available.

supports this hypothesis. The seven largest projects account for 62.1% of total resources for rural electrification, while 20 of the 27 projects with cost data comprise 37.9% of total planned obligations. The distribution in Table I-4 reveals a mode at the \$10 to \$20 million level, where one-third of projects with cost data appear. The small number of projects below this cell also suggests that most rural electrification projects have minimum planned costs of \$10 million.

In order to address the issue of "relative priority" PCI calculated total AID allocations by Bureau (excluding Security Supporting Assistance) and compared them with rural electrification expenditures (Table I-5). The

TABLE I-5  
PROPORTION OF TOTAL AID ALLOCATIONS SPEND ON RURAL ELECTRIFICATION PROJECTS

BUREAU	TOTAL AID ALLOCATION 1961-1977*	TOTAL PLANNED OBLIGATIONS FOR RURAL ELECTRIFICATION PROJECTS (1961-1977)*	RURAL ELECTRIFICATION ALLOCATION AS PERCENT OF TOTAL
AFRICA	2784.5	0	0
ASIA	14969.2	128.2	.8%
LATIN AMERICA	6941.9	52.6	.8%
NEAR EAST	6873.8	28.8	.4%
TOTAL	31569.4	209.6	.5%

\* Millions of dollars

proportion of planned obligations for rural electrification projects is compared to total AID allocations by region. Available data make this comparison possible for the period 1961-1977. If this proportion can be used as a rough indicator of the relative effort of the Bureaus, then there are similarities and differences among them. For the period noted, Asia and Latin America have devoted an equal proportion of effort toward rural electrification (.8%). The Bureaus average .5% of their total effort on rural electrification projects. The range is from a low of 0 for Africa to .8% Asia and Latin America. The higher relative expenditures by Asia and Latin America is consistent with the larger

number of rural electrification projects implemented by these Bureaus. On the other hand, the larger total AID allocations to the Asia Bureau may be associated with the larger average size of that Bureau's rural electrification projects.

In order to complete our examination of AID's portfolio of rural electrification projects, PCI queried the automated data bases for information on project intent. Project Goals and Purposes were grouped together and their frequency was noted. PCI found information on project Purposes and Goals for 17 projects. Table I-6 displays a regional distribution of project Purpose statements; Table I-7 shows the data on project Goals. The provision of reliable electrical service at reasonable cost is by far the most frequent Purpose. Its most frequent Goal is to increase socio-economic development. The phrase "provide reliable electric power at reasonable rates" or its equivalent appears frequently in the Purpose statements of the rural electrification projects. Planners of rural electrification projects are concerned not only with supplying electrical power. They are also trying to ensure that the system provided will be reliable and affordable by the target population.

The automated data bases in the Office of Development Information were queried concerning the availability of evaluative data. Searches of these automated files revealed 5 Special Evaluations and 1 Project Appraisal Report. Additionally, 1 AID Supported Study, 1 Working Paper, and 1 End-of-Tour Report were cited as potential sources of evaluative data.

TABLE I-6  
PURPOSE STATEMENT BY BUREAU

PURPOSE CATEGORIES	AFRICA	ASIA	LATIN AMERICA	NEAR EAST	CENTRALLY FUNDED	TOTAL
Improve Research and Planning	0	1	0	0	2	3
Provide Reliable Electrical Service	0	5	4	1	0	10
Institutional Development	0	2	1	0	0	3
Increase Production	0	1	1	0	0	2
Establish an Electric Cooperative	0	0	1	0	0	1
Miscellaneous	0	1	1	0	0	2

TABLE I-7  
GOAL STATEMENTS BY BUREAU

GOAL CATEGORIES	AFRICA	ASIA	LATIN AMERICA	NEAR EAST	CENTRALLY FUNDED	TOTAL
Increase Socio-Economic Development	0	5	5	1	0	11
Increase Production and Income	0	3	2	0	0	5
Determine Effects of Rural Electrification	0	0	0	0	2	2
Provide Reliable Electrical Service	0	0	2	0	0	2
Miscellaneous	0	3	0	0	0	3

TABLE I-8  
POTENTIAL AND ACTUAL SOURCES OF EVALUATIVE DATA

	AFRICA	ASIA	LATIN AMERICA	NEAR EAST	CENTRALLY FUNDED	TOTAL
AID Supported Study	-	-	-	-	-	1
End-of-Tour Report	-	-	1	-	-	1
Project Appraisal Report	-	1	-	-	-	1
Special Evaluation	-	1	2	-	2	5
Working Paper	-	-	-	-	1	1
TOTAL	-	3	3	-	3	9

SECTION TWO  
REGIONAL SUMMARIES

Tables A-2 through A-6 in Appendix A provide financial and chronological information at the project level. Data for specific projects may be drawn from those tables. The summary tables which appear in this report are drawn from the more detailed presentations in that Appendix.

A. AFRICA BUREAU PROJECT PATTERNS

PCI's search of the automated data on rural electrification projects uncovered no financing of rural electrification projects by the Africa Bureau.

B. ASIA BUREAU PROJECT PATTERNS\*

A total of 15 rural electrification projects sponsored by the Asia Bureau were located in our search. The Asia Bureau finances the greatest number of rural electrification projects, has the largest amount of planned obligations, the largest average project size (over \$21 million), and (with Latin America) the greatest proportion of total Bureau effort toward rural electrification in the period 1961-1977. The Bureau also has the largest number of planned, completed, and (with Latin America) active projects. Recent Asia Bureau efforts in this subject area account for a considerable proportion of the Bureau's total planned obligations for

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\*/ Table A-3 of Appendix A provides project-level detail for the above discussion.

rural electrification. Table II-1 shows that 58.6% of the Bureau's total planned obligations for rural electrification projects has been spent on projects which began no earlier than 1/77 or are now in the planning stage. They account for a greater share of Agency planned obligations for recent projects (68.2%). The average size of these recent Bureau efforts is \$23,271,000.

The rural electrification projects assisted by the Asia Bureau cluster into two categories by cost: a group of 5 with planned obligations less than \$4 million, and a group of 8 with minimum planned obligations above \$13 million (there is missing data on planned obligations for 2 projects). The average size of the "low-cost" cluster is \$1.6 million in planned obligations. The average size of the "high-cost" cluster is \$33.7 million in planned obligations.

The Philippines and Indonesia have the greatest number of rural electrification projects sponsored by the Asia Bureau. Five such efforts were located for the Philippines, the most recent one having begun in 1978. The 3 Indonesia efforts are all recent: 1 began in 1978 and 2 are in the planning stage.

Asia Bureau projects follow the Agency pattern in terms of project objectives. Of the 10 Purpose statements cited for this Bureau, 5 fall under the most common category: to provide reliable electrical service at reasonable cost. Five of the 11 Bureau Goal statements aim to increase the socio-economic development of the target population. This is the most prevalent Goal statement for rural electrification projects in the Agency.

There are 3 Bureau rural electrification evaluations in the data base.

TABLE 11-1

REGIONAL BREAKDOWN OF PROJECTS BEGINNING AFTER 1/77 (INCLUDING PROJECTS IN PLANNING STAGE)

BUREAU	TOTAL NUMBER OF PROJECTS	TOTAL PLANNED OBLIGATIONS	# OF PROJECTS BEGINNING AFTER 1/77	AS % OF ALL PROJECTS BEGINNING AFTER 1/77	AS % OF COLUMN ONE	TOTAL PLANNED OBLIGATIONS FOR PROJECTS BEGINNING AFTER 1/77	AS % OF ALL PLANNED OBLIGATIONS FOR PROJECTS BEG. AFTER 1/77	AS % OF COLUMN TWO
AFRICA	0	0	0	0.0%	0	0	0	0
ASIA	15	277,760*	7	53.8%	46.7%	162,900	68.2%	58.6
LATIN AMERICA	11	92,801*	4	30.8%	36.4%	45,500	19.0%	49.0%
NEAR EAST	3	58,819	1	7.7%	33.3%	30,000	12.6%	51.0%
CENTRALLY FUNDED	3	405*	1	7.7%	33.3%	388	0.2%	95.8%
TOTAL	32	429,785	13	100.0%	40.6%	278,788	100%	55.6%

\* Planned obligation data missing for: Asia - 2 projects  
 Latin America - 2 projects  
 Centrally Funded - 1 project

C. LATIN AMERICA BUREAU PROJECT PATTERNS\*

The Latin America Bureau has been almost as active as the Asia Bureau in the area of rural electrification. It has financed as many active projects as the Asia Bureau, but has less completed and planned projects. The Latin America Bureau accounts for 21.6% of total Agency planned obligations for rural electrification projects. As Table I-2 showed, Bureau efforts are very evenly distributed over time. Four projects began no earlier than 1/77 or are now in the planning stage (Table II-1). They account for half of the Bureau's total planned obligations for rural electrification projects. These 4 projects (2 active, 2 planned) average \$11.4 million in planned obligations, slightly above the Bureau average (\$10.3 million).

Bolivia accounts for 5 of the 11 rural electrification projects assisted by the Latin America Bureau. Two of these projects are now in the planning stage; 2 others began in 1974. The range of planned obligations for projects in Latin America is relatively small, with a minimum size of \$3.5 million and a maximum size of \$19 million.

As Table I-7 shows, half of the Purpose statements cited for the Bureau do not deviate from the pattern of the Agency: to provide reliable electrical service at reasonable cost. As with the Asia Bureau, these Purposes most frequently point to the Goal of increasing socio-economic development. Two projects cite the provision of electrical service as a Goal.

Three evaluative documents were uncovered in our automated search.

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\*/ Table A-4 of Appendix A provides project-level detail for the above discussion.

D. NEAR EAST BUREAU PROJECT PATTERNS\*

Our automated search uncovered 3 rural electrification projects sponsored by the Near East Bureau. Two of them began in Afghanistan in 1966 and 1968. The other is in the planning stage and will be implemented in Syria. It contains planned obligations of \$30 million.

Logical Framework data were available for only 1 of the Near East efforts. It follows the Agency pattern: the Purpose is to provide reliable electrical service at reasonable cost; the Goal is to increase socio-economic development.

No references to evaluation documents were found for the 3 Near East efforts.

E. CENTRALLY FUNDED PROJECT PATTERNS\*\*

Three centrally funded projects fall into the category of rural electrification. Two of them contain Logical Framework data and reveal that they are both evaluation activities. One project began in 1971 and evaluated the effectiveness of the lending program in rural electrification. The other began in 1976 and assessed the performance of AID's major rural electrification contractor.

Our automated search for evaluation documents produced 3 references.

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\*/ Table A-5 of Appendix A provides project-level detail for the above discussion.

\*\*/ See Appendix A, Table A-6 for project-level data.

**APPENDIX A: SUPPLEMENTARY ANALYSIS**

The tables which constitute Appendix A are more specific versions of most of the summary tables found in the body of the report. The majority of tables in the Appendix report data at the project level.

TABLE A-1  
DISTRIBUTION OF PROJECTS BY BUREAU AND SIZE OF PROJECT

BUREAU	PROJECT SIZE*						TOTAL**
	UNDER \$1M	\$1M-\$5M	\$5M-\$10M	\$10M-\$20M	\$20M-\$40M	OVER \$40M	
AFRICA	0	0	0	0	0	0	0
ASIA	2	3	0	2	4	2	13
LATIN AMERICA	0	2	2	5	0	0	9
NEAR EAST	0	0	0	2	1	0	3
CENTRALLY FUNDED	2	0	0	0	0	0	2
TOTAL	4	5	2	9	5	2	27

\* Project size assessed in terms of planned obligations.

\*\* Excludes projects for which financial data unavailable:  
 Asia - 2 projects  
 Latin America - 2 projects  
 Centrally Funded - 1 project

**TABLE A-2**  
**SUMMARY TABLE OF ELECTRIFICATION PROJECTS BY BUREAU, START DATE, AND PLANNED OBLIGATION**

BUREAU		1955	1961	1966	1967	1968	1971	'73	1974	1976	1977	1978	FY78	FY79	FY80	TOTAL
AFRICA	NUMBER															
	PLANNED OBLIGATION															
ASIA	NUMBER		1	1*		1	2	1	2*		1	3	1	1	1	15
	PLANNED OBLIGATION		13854			3783	41886	42	18595		50000	56250	55000	1650	36700	277760
LATIN AMERICA	NUMBER	1			1*	1*	2		2		1	1		2		11
	PLANNED OBLIGATION	9688					7649		29764		15000	10000		20500		92801
NEAR EAST	NUMBER			1		1									1	3
	PLANNED OBLIGATION			11819		17000								30000		58819
CENTRALLY FUNDED	NUMBER						1*			1		1				3
	PLANNED OBLIGATION									17		388				405
TOTAL PROJECTS		1	1	2*	1*	3*	5*	1	4*	1	2	5	1	4	1	32
TOTAL PLANNED OBLIGATIONS		9688	13854	11819		20783	49735	42	48359	17	65000	66638	55000	52150	36700	429785

\*/ Missing data for planned obligations

**TABLE A-3**  
**ASIA BUREAU ELECTRIFICATION PROJECTS BY START DATE AND PLANNED OBLIGATIONS**

COUNTRY	PROJECT NO.	1961	1966	1968	1971	1973	1974	1977	1978	FY78	FY79	FY80
ASIA REGIONAL	4980133 4980236 4980260	13854(C)					*(C)		250(A)			
BANGLADESH	3880021							50000(A)				
INDIA	3860233		*(C)									
INDONESIA	4970267 4970283 4970295								36000(A)		1650(P)	3670C(P)
PAKISTAN	3310408									55000(P)		
PHILIPPINES	4920236 4920248 4920314 4920315 4920321			3783(C)	2487(A) 39399(C)		18595(A)		20000(A)			
THAILAND	4930248					42(C)						
TOTAL PLANNED OBLIGATION		13854	*	3783	41886	42	18595*	50000	56250	55000	1650	36700
TOTAL NUMBER		1	1	1	2	1	2	1	5	1	1	1

\* Missing data for planned obligations

**TABLE A-4**  
**LATIN AMERICA BUREAU ELECTRIFICATION PROJECTS BY START DATE AND PLANNED OBLIGATION**

COUNTRY	PROJECT NO.	1955	1967	1968	1971	1974	1977	1978	FY79
BOLIVIA	5110000	9688 (A)							
	5110049								
	5110205								
	5110491						19035 (A)		
	5110493						10729 (A)		
								5000 (P)	
									15500 (P)
ECUADOR	5180099				3550 (A)				
HONDURAS	5220138							10000 (A)	
JAMAICA	5320046						15000 (A)		
NICARAGUA	5240078			* (C)					
	5240096				4299 (C)				
PERU	5270119		* (L)						
TOTAL PLANNED OBLIGATIONS		9688	*	*	7849	29764	15000	10000	205000
TOTAL NUMBER		1	1	1	2	2	1	1	2

\* Missing data for planned obligations

TABLE A-5

NEAR EAST BUREAU ELECTRIFICATION PROJECTS  
BY START DATE AND PLANNED OBLIGATIONS

COUNTRY	PROJECT NO.	1966	1968	FY 79
AFGHANISTAN	3060101 3060141	11819 (C)	17000 (A)	
SYRIA	2760025			30000 (A)
TOTAL PLANNED OBLIGATIONS		11819	17000	30000
TOTAL NUMBER		1	1	

TABLE A-6  
CENTRALLY FUNDED BUREAU ELECTRIFICATION  
PROJECTS BY START DATE AND PLANNED OBLIGATIONS

COUNTRY	PROJECT NO.	1971	1976	1978
Engineering	9250203	*(C)		
Population and Humanitarian Assistance	9320087 9320117		17(C)	388(A)
Total Planned Obligations		*	17	388
Total Number		1	1	1

\* Missing data for planned obligations

TABLE A-7

REGIONAL BREAKDOWN OF PROJECTS IN "PLANNING" STAGE AND THEIR PLANNED OBLIGATIONS

BUREAU	TOTAL NUMBER OF PROJECTS	TOTAL PLANNED OBLIGATIONS	NUMBER OF PROJECTS IN PLANNING STAGE	AS % OF ALL PLANNING STAGE PROJECTS	AS % OF COLUMN ONE	AS % OF ALL PLANNED OBLIGATIONS FOR PLANNING STAGE PROJECTS	TOTAL PLANNED OBLIGATIONS FOR PLANNING STAGE PROJECTS	AS % OF COLUMN TWO
AFRICA	0	0	0	0	0	0	0	0
ASIA	15	277,760	3	50%	20%	93,350	64.9%	33.6%
LATIN AMERICA	11	92,801	2	33.3%	18.2%	20,500	14.3%	22.1%
NEAR EAST	3	58,819	1	16.7%	33.3%	30,000	20.8%	51%
CENTRALLY FUNDED	3	495	0	0	0	0	0	0
TOTAL	32	429,785	6	100%	18.8%	143,850	100%	33.5%

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TABLE A-8

REGIONAL BREAKDOWN OF PROJECTS IN ACTIVE STAGE AND THEIR PLANNED OBLIGATIONS

BUREAU	TOTAL NUMBER OF PROJECTS	TOTAL PLANNED OBLIGATIONS*	NUMBER OF PROJECTS IN ACTIVE STAGE	AS % OF ALL ACTIVE STAGE PROJECTS	AS % OF COLUMN ONE	AS % OF ALL PLANNED OBLIGATIONS FOR ACTIVE PROJECTS	TOTAL PLANNED OBLIGATIONS FOR "ACTIVE" STAGE PROJECTS	AS % OF COLUMN TWO
AFRICA	0	0	0	0	0	0	0	0
ASIA	15	277,760	6	42.9%	40%	127,332	59.9%	45.8%
LATIN AMERICA	11	92,801	6	42.9%	54.6%	68,002	31.9%	73.3%
NEAR EAST	3	58,819	1	7.1%	33.3%	17,000	8%	28.9%
CENTRALLY FUNDED	3	405	1	7.1%	33.3%	388	0.2%	95.8%
TOTAL	32	429,785	14	100%	43.8%	212,722	100%	49.5%

\*/ Planned Obligation Data missing for: Asia - 2 projects  
Latin America - 2 projects  
Centrally Funded - 1 project

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**APPENDIX B: RAW DATA**

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
ASIA REGIONAL	4980133 670701 750630	668	<ul style="list-style-type: none"> <li>Poor economic and agricultural development in Mekong River Basin</li> <li>Limited use of resources</li> </ul>	<ul style="list-style-type: none"> <li>Regional Cooperation promoted</li> <li>Mekong River developed as a natural resource</li> </ul>	<ul style="list-style-type: none"> <li>Data presented to Mekong Committee</li> </ul>	No	Completed	Yes	<ul style="list-style-type: none"> <li>Engineering studies</li> <li>Economic studies</li> <li>Reconnaissance report</li> </ul>	13854	13854	No
	4980236 741201 770630	30					Completed					
	4980260 780818 791231	16					Active			250		
BANGLADESH	3880021 771215 831215	72	<ul style="list-style-type: none"> <li>Low agricultural production</li> <li>Enormous unemployment and underemployment among rural poor</li> <li>Lack of development of agriculture, small industries, and community facilities</li> </ul>	<ul style="list-style-type: none"> <li>Rural standards improved</li> </ul>	<ul style="list-style-type: none"> <li>Reliable electric service at reasonable rates provided</li> </ul>	No	Active	No		50000	771	<ul style="list-style-type: none"> <li>Technician Assistant e 771</li> <li>Construction Commodities e 0</li> <li>Support commodities e 0</li> <li>Construction equipment e 0</li> </ul>

Practical Concepts Incorporated

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE	
PHILIPPINE	4920236 680701 770930	111	<ul style="list-style-type: none"> <li>Provincial level government administration inadequate for effective planning, implementation and management of development programs</li> </ul>	<ul style="list-style-type: none"> <li>Quality of life in 24 provinces improved</li> </ul>	<ul style="list-style-type: none"> <li>Provincial governments' institutional capabilities to formulate and implement programs in various sectors improved</li> </ul>	No	Completed	Yes	<ul style="list-style-type: none"> <li>Training to improve planning and implementation of projects in:               <ul style="list-style-type: none"> <li>- agriculture</li> <li>- child nutrition</li> <li>- family planning</li> <li>- rural industry</li> <li>- infrastructure construction</li> </ul> </li> </ul>	3783	3776 <ul style="list-style-type: none"> <li>- U.S. personnel ● 1272</li> <li>- Participants ● 279</li> <li>- Commodities ● 889</li> <li>- Other costs ● 1336</li> </ul>	<ul style="list-style-type: none"> <li>Yes Project Appraisal 3/72</li> </ul>	
	4920248 710701 800630	10.	<ul style="list-style-type: none"> <li>Economic Development of rural areas prevented</li> <li>Lack of rural electricity distribution system</li> </ul>	<ul style="list-style-type: none"> <li>Welfare of rural populations increased</li> <li>Income and employment opportunities increased</li> </ul>	<ul style="list-style-type: none"> <li>Economical electrical power supplied to rural areas of Philippines</li> </ul>	No	Active	No		2487	2498 <ul style="list-style-type: none"> <li>- U.S. personnel ● 2030</li> <li>- Participants ● 303</li> <li>- Commodities ● 61</li> <li>- Other costs ● 104</li> </ul>		
	4920314 740701 800630	72						Active		18599			
	4920315 710601 770630	73						Completed		39399			

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF DANGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
Philippine	4920321 780113 791231	24	<ul style="list-style-type: none"> <li>Benefits of rural electrification threatened by current lack of funds</li> </ul>	<ul style="list-style-type: none"> <li>Standard of living of rural people improved</li> </ul>	<ul style="list-style-type: none"> <li>Production increased and daily amenities improved</li> <li>Reliable electric power at reasonable rates made available in rural areas</li> </ul>	No	Active	No		20000	2500 - Commodities • 2500 - Unearmarked • 0	No
THAILAND	4930248 730601 750630	25	<ul style="list-style-type: none"> <li>Opium a dominant source of income for hill tribes</li> </ul>	<ul style="list-style-type: none"> <li>Volume of opium poppy cultivation reduced</li> </ul>	<ul style="list-style-type: none"> <li>Local fruit and vegetables processed</li> <li>Canning factories established</li> </ul>	Yes	Completed	Yes	<ul style="list-style-type: none"> <li>Construction of canning factories</li> <li>Marketing</li> <li>Agricultural extension</li> <li>Village health/nutrition station</li> </ul>	42	42 - Commodities • 42	No

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
BOLIVIA	5110000 550801 800930	30.	<ul style="list-style-type: none"> <li>Lack of data on technical, economic, and financial feasibility of electrifying rural areas of southern Bolivia</li> </ul>	<ul style="list-style-type: none"> <li>Rural La Paz area of southern Bolivia electrified</li> </ul>	<ul style="list-style-type: none"> <li>Rural electrification needs of southern Bolivia identified</li> </ul>	No	Active	No		9688	9953 - U.S. personnel • 4635 - Pasa • 338 - U.S. contractors • 719 - TCN and local personnel-direct • 2663 - TCN and local personnel-contractors • 102 - Participants-direct • 50 - Commodities • 3 - Other costs-direct • 96 - Other costs-contract • 65	No
	5110049 740912 790630	57					Active			19035		
	5110205 741201 790630	55					Active			10724		
	5110491 FY79						Planned			5000		
	5110493 FY79						Planned			15500		

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMON-STRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
ECUADOR	5180099 710601 761230	07	<ul style="list-style-type: none"> <li>Rural electric coops unable to demonstrate ability to meet rural electrification needs</li> <li>Lack of generating and distribution facilities</li> <li>Absence of a govt. agency concerned with electric cooperative development</li> </ul>	<ul style="list-style-type: none"> <li>Social and industrial development in rural Ecuador increased</li> <li>Sufficient amount of electricity provided to rural Ecuador</li> </ul>	<ul style="list-style-type: none"> <li>Viable electric cooperative established</li> </ul>	No	Active	No		3550	3413 - Participants • 22 - Commodities • 3391	No
HONDURAS	220138 780404 821004	54	<ul style="list-style-type: none"> <li>Socio-economic development of Aguan Valley retarded</li> <li>Lack of electrification system</li> </ul>	<ul style="list-style-type: none"> <li>Quality of life of rural part in Honduras improved</li> </ul>	<ul style="list-style-type: none"> <li>Rural electrification system in Aguan Valley established</li> </ul>	No	Active	No		1000	0	No
JAMAICA	5320046 770930 810930	48	<ul style="list-style-type: none"> <li>4000 small hillside farmers suffer from low crop yields, erosion, inadequate farm input systems</li> </ul>	<ul style="list-style-type: none"> <li>Improve standard of living of farmers</li> <li>Increase income farmers</li> <li>Various infrastructure and social services provided (including electricity)</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural production increased</li> <li>Soil erosion controlled</li> <li>Ministry of Agriculture strengthened</li> </ul>	Yes	Active	Yes	<ul style="list-style-type: none"> <li>Soil conservation</li> <li>Reforestation</li> <li>Access roads</li> <li>Improved farming systems</li> <li>Small farmer credit</li> <li>Potable water</li> <li>Housing</li> </ul>	15000	154 - Personnel • 149 - Participants • 5	No

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
NICARAGUA	5240078 680801 730830	61	<ul style="list-style-type: none"> <li>Lack of development in rural sector</li> <li>Lack of reliable electric power at reasonable rates</li> </ul>	<ul style="list-style-type: none"> <li>Social and economic well being of rural sector improved</li> </ul>	<ul style="list-style-type: none"> <li>Electricity provided to 3 rural areas at reasonable rates</li> </ul>	No	Completed	No			10200 - No breakdown given	No
	5240096 710601 751230	55	<ul style="list-style-type: none"> <li>Development of industry and agricultural production constrained</li> <li>Rural areas do not receive electricity</li> </ul>	<ul style="list-style-type: none"> <li>Standard of living of rural population improved</li> <li>Agricultural production and earnings increased</li> </ul>	<ul style="list-style-type: none"> <li>Inexpensive electrical power supplied to residential consumers, industrial, commercial and agricultural production facilities</li> </ul>	No	Completed	No		4299	4299 - No breakdown given	No
PERU	5270119 670101 730830	00					Completed					

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEPUR-STATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
AFGHANISTAN	3060101 680501 78063	122	• Helmand-Arghandhab Valley is isolated and inaccessible	• Helmand-Arghandhab Valley developed	• Electric power supply to Kandahar-Girishk area in Helmand-Arghandhab Valley increased	No	Active	No		17000	14727 - No breakdown given	No
	3060141 661101 740630	92					Completed			11819		
SYRIA	2760025 FY 79						Planned			30000		

COUNTRY	PROJECT NUMBER AND DATES	PLANNED LENGTH	PROBLEM	GOAL	PURPOSE	PILOT/DEMONSTRATION	STATUS	PART OF LARGER PACKAGE?	IF YES, OTHER COMPONENTS	PLANNED COSTS	EXPENDITURES TO DATE	ANY EVALUATION DOCUMENTS, TYPE, AND DATE
ENGINEERING	9250203 710601 740630	37	<ul style="list-style-type: none"> <li>Lack of independent professional evaluation of AID rural electrification efforts</li> </ul>	<ul style="list-style-type: none"> <li>Social, cultural and economic effects of rural electrification determined</li> </ul>	<ul style="list-style-type: none"> <li>AID has basis for promoting effective utilization of loan funds for rural electrification</li> </ul>	No	Completed	No			97 - U.S. Personnel • 97	No
POPULATION AND HUMANITARIAN ASSISTANCE	9320087 760910 770331	7	<ul style="list-style-type: none"> <li>Rural electrification projects in Philippines, Nicaragua, and Bolivia may require redesign</li> </ul>	<ul style="list-style-type: none"> <li>Rural electrification as a means of rural development</li> </ul>	<ul style="list-style-type: none"> <li>Assess performance of NRECA</li> </ul>	No	Completed	No		17	17 - U.S. Personnel • 17	Yes Special Evaluation 1/77 Working Paper 3/77.
	9320117 780601 810228	33					Active			388		