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Folder Title: UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - 1984 / 1986 Correspondence - Volume 7

Folder ID: 30189797

Series: Operational support and ESMAP project management

Dates: 07/01/1986 - 08/26/1986

Fonds: Records of the Energy Development Sector

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Washington, D.C.

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UNDP - INT/83/005

1984/86

VOL. 7

 **Archives**

 **30189797**

R1990-009 Other #: 16 14481B

UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] -
Correspondence - 1984 / 1986 - Volume 7

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CLOSE - OUT SHEET

This file is closed as of Aug 31, 1986.

For further correspondence, please see vol. 8.

RECORDS MANAGEMENT SECTION

JM - Energy Sector
(Energy Sector Mgmt Assistance
Program)

NRIC

LAC File
INT/83/005

DATE: August 26, 1986

TO: Messrs. C.R. Poncia and G. Gaskin, EGYS2 and
W. Floor, EGYS1.

FROM: Richard S. Dosik, Division Chief, EGYS2 • E. Montford EGYS1.

EXTENSION: 76894

SUBJECT: JAMAICA: Energy Sector Management Assistance Program
Terms of Reference

1. You should visit Jamaica from September 1 for about 10 days to prepare the Jamaica ESMAP Program. The purpose of this mission will be to review the ESMAP proposals submitted by the Government (March 29, 1986), identify priorities and develop an ESMAP program consistent with Jamaica's implementation capacity. Mr. Poncia will coordinate the mission, Mr. Floor will review the Governments forestry/fuelwood and cogeneration (supply side only) proposals and Mr. Gaskin will review the proposed conservation and institutional strengthening proposals.

2. As regards the forestry/fuelwood proposals Messrs. Poncia and Floor should meet with MMET, the Institute of Planning, and Forestry Department (Dr. Jones), and the Scientific Research Council to review: (1) Government fuelwood policy framework, ongoing programs and institutional resources/constraints and budget; (2) available data on the fuelwood cycle, including wood and charcoal production, distribution and consumption trends, fiscal and pricing policies, and the role of kerosene; and (3) kiln and stove efficiencies, penetration of more efficient designs (including the portable metal kiln experience) and potential impact on charcoal consumption;

3. As regards the cogeneration proposal, Messrs. Poncia and Floor should meet with MMET, JPS, Tate and Lyle and AID personnel to evaluate the potential for power production and sale to JPS, by Frome Sugar Estate, FIDCO Sawmill and other small scale producers as appropriate.

4. As regards the demand management and institutional strengthening proposals, Messrs. Poncia and Gaskin should:

(a) meet with MMET and AID to review the results of AID's Energy Sector Program to date and possible ESMAP follow-up;

(b) meet with MMET, Institute of Planning, MPUT, Industry and Commerce, Island Traffic Authority, JPS and PCJ to review: (1) the energy consumption breakdown between major consumer groups, (2) areas of excess consumption and (3) any institutional constraints to effective conservation initiatives

(c) meet with the private sector, including Jamaica Manufacturers Association, Chamber of Commerce and Institute of Engineers and Architects, to identify means (removing constraints, introducing fiscal incentives, etc.) to promote increased private sector investment in energy efficiency, where financially/economically justified;

(d) meet with CAST/VTDI to discuss institutional strengthening in energy efficiency, and with The National Development Bank to review utilization of existing credit facilities for energy efficiency investment; and

(e) meet with Treasury to outline proposals for the ESMAP Conservation Program, to review the macroeconomic impact of

potential energy savings and to consider Treasury response to the fiscal and monetary measures proposed.

5. Mr. Floor should draft the sections to Aide Memorie dealing with the forestry/fuelwood and cogeneration (supply side) proposals and Mr Gaskin those dealing with energy efficiency and institutional strengthening, including in each case and activity description, with brief rationale, consultant TOR, budget, consultant selection procedures and implementation program. Mr. Poncia should finalize the draft Aide Memorie with GOJ representatives (including any follow-up to the Supplement Assessment Report).

6. Mr. Poncia should brief the Canadian CIDA Representative visiting Jamaica during the mission, and make arrangements for the formal committment of CIDA funds to the program (and also to the Supplemental Assessment Report). He should also brief the Canadian High Commissioner and the UNDP Resident Representative in Jamaica.

7. On your return, you should prepare a brief BTO, together with Activity Initiation Briefs for the proposed Program.

clear and cc:Ms. Bernard, Mr. delVoie (LC2VC), Beattie (LCPAB) and
Heidebroek (LCPAB)

cc: Mr. Larrieu (LCPEN)

INT/83/005
8/26

FACSIMILE TRANSMITTAL FORM

Date : August 26, 1986
No. of pages : 2
From : RSI Jakarta (Matthew Mendis)
To : World Bank Washington (Masood Ahmed - EGYS1)
Attn. Messrs. J. Bouramand, C. Fienstien
copy to AEAIN and Asia Files
Fax No. : F/ 1700
Subject : ESMAP GHANA SAWMILL RESIDUE STUDY

AAA. Suggest following key criteria for evaluation of consultants technical proposals on subject study.

1. Qualifications of proposed personnel in each required category including:
 - Experience relevant to proposed assignment;
 - LDC and especially Ghana experience;
 - Previous experience with WB projects;
 - Relevant reports and field experience;
 - General reputation and WB references.
2. Proposed work plan including:
 - Understanding of project objectives;
 - Design of proposed workplan and interaction of mission experts;
 - Understanding of conditions and issues relevant to Ghana wood industries;
 - Demonstration of knowledge relating to wood industry residue utilization options;
 - Proposed procedures for data collection and analysis;
 - Format for final report.
3. Corporate experience including:
 - Relevant project experience;
 - Previous Ghana and other LDC experience in subject area;
 - Availability of other qualified staff to support and review the work of the proposed team;
 - Previous experience with Bank on similar projects and/or in Ghana;
 - Experience with and knowledge of similar project design and related hardware;

BBB. Suggest the following ranking procedure. The four short-listed proposals should be ranked ordinally in each of the three main criteria areas mentioned above with the best proposals receiving 4 points, the second 3 points, etc. In the case of key personnel, proposed personnel should be ranked in each of the required categories: i.e. Sawmill Expert; Biomass Conversion Specialist; and Combustion/Energy Applications Specialist. The weighting of personnel will therefore have a factor of three. A weighting factor of 2 should be applied to the ranking of proposed workplan and a factor of 1 to corporate experience.

CCC. Overall ranking of the technical proposals should be based on the sum of the points awarded with the technical proposal receiving the highest total being selected for a review of ITS cost proposal. Assuming it's cost proposal is acceptable and within budget, the technical proposal should be reviewed again to determine if the qualifications of the three proposed personnel are satisfactory. If not, negotiations should be commenced to have the unacceptable personnel replaced. If this fails to lead to the fielding of satisfactory team, then the next best proposal should be considered.

DDD. I will be staying at the hotel Panghegar in Bandung from August 26 to August 29. Please contact me by phone (22)-57584 to discuss this matter.

Regards, Matthew Mendis.

MMendis:dy

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TO MR. EMMANUEL MBI, RESREP INTBAFRAD, LOME, TOGO. PLEASE CONVEY
THE FOLLOWING MESSAGE: A S.E. M. BARRY MOUSSA BARQUE, MINISTRE DE
L'EQUIPMENT, DES MINES ET DES POSTES ET TELECOMMUNICATIONS. COPIE A
S.E. M. YAOVI ADODO, MINISTRE DU PLAN ET DE L'INDUSTRIE ET A M.
ALIDOU, DIRECTEUR GENERAL DE LA CEB ET A M. AGBEBE, DIRECTEUR
GENERAL, CEET, LOME, TOGO. OBJET: MISSION D'ETUDE DU SYSTEME
ELECTRIQUE. SUITE A LA MISSION DE M. BAUER EN JUILLET DERNIER,
VOUS CONFIRMANT NOTRE ACCORD POUR EFFECTUER UNE MISSION D'ETUDE SUR
L'EFFICACITE DU SYSTEME ELECTRIQUE DANS LE CADRE DU PROGRAMME
D'ASSISTANCE A LA GESTION DU SECTEUR ENERGETIQUE (PAGE), NOUS
PROPOSONS D'ENVOYER UNE MISSION A LOME DU 1ER AU 19 SEPTEMBRE. LE
TRAVAIL DE LA MISSION COMPRENDRA (AAA) EVALUATION DES PERTES NON-
TECHNIQUES DU SYSTEME CEET ET RECOMMANDATION DES MOYENS POUR LES
LIMITER. (BBB) ANALYSE DES PROBLEMES DES GROUPEES DIESELS ET
TURBINES A GAZ, ET (CCC) RECOMMANDATION D'UN PROGRAMME PRATIQUE
POUR AMELIORER L'EFFICACITE GENERALE DE LA GESTION ET RENFORCER LES
SERVICES AUXILIAIRES, PAR EXEMPLE, LE CONTROLE DES STOCKS,
L'ENTRETIEN DU PARC VEHICULE, LE DESSIN DU SYSTEME DES
COMMUNICATIONS, ETC. LA MISSION SERA COMPOSEE DE MM. TEDESCHI,
CHEF DE MISSION, NICKSON, SPECIALISTE EN GESTION DES ABONNES,
ROESCHLI, SPECIALISTE DE L'OPERATION ET DE L'ENTRETIEN DES GROUPEES

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CLASS OF SERVICE: TELEX		TELEX NO.:	DATE: 08/22/86
SUBJECT: Togo/Benin Power System Efficiency Audit		DRAFTED BY: JMMitchell:svh:pla	EXTENSION: 73537
CLEARANCES AND COPY DISTRIBUTION: c/w & cc: Messrs. B. Davis (WAPEG) I. Thiam (WADD2)		AUTHORIZED BY (Name and Signature): Masood Ahmed, Act. Div. Chief, EGYS1	
cc: Mr. B. Montfort (o/r) (EGYS1)		DEPARTMENT: Energy	
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DIESELS. JE VOUS PRIE, MONSIEUR LE MINISTRE, DE BIEN VOULOIR NOUS
CONFIRMER DES QUE POSSIBLE, PAR TELEX, SI CES DATES VOUS
CONVIENNENT. HAUTE CONSIDERATION. M. AHMED, CHEF DE DIVISION PAR
INTERIM, EGYS1, DEPARTEMENT DE L'ENERGIE, BANQUE MONDIALE.

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CLASS OF SERVICE: TELEX		TELEX NO.:	DATE: 08/22/86
SUBJECT: Togo/Benin Power System Eff. Audit		DRAFTED BY: JMMitchell:svh:tla	EXTENSION: 73537
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BOOK OF SIX

1. DR. A. KIRTON

MINISTRY OF MINING, ENERGY & TOURISM

KINGSTON, JAMAICA

TELEX NO. 381-2436

2. MR. W. SAUNDERS

PETROLEUM CORPORATION OF JAMAICA

KINGSTON, JAMAICA

~~CABLE 1~~

3. MS. B. MC SWEENEY

RESIDENT REPRESENTATIVE

UNITED NATIONS DEVELOPMENT PROGRAMME

KINGSTON, JAMAICA

TELEX NO. 381-2245

4. MR. T. COX

UNITED NATIONS DEVELOPMENT PROGRAMME

NEW YORK, NEW YORK

TELEX NO. WDIAL 125980

Foreign

OK C/LT
381-2356

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CLASS OF SERVICE:	TELEX	TELEX NO.:	BOOK OF SIX	DATE:	August 22, 1986
SUBJECT:	JAMAICA: ESMAP		DRAFTED BY:	EXTENSION:	
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5. MR. H. SIMARD
CANADIAN HIGH COMMISSION
30-36 KNUTSFORD BLVD.
KINGSTON 5, JAMAICA

~~TELEX NO. CABLE 1~~

6. MR. D. SHALES AND MS. D. DEMERS
CANADIAN INTERNATIONAL DEVELOPMENT AGENCY (CIDA)
HULL, QUEBEC
CANADA

~~TELEX NO. 389 4140~~

381-2130

389-534140

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CLASS OF SERVICE: TELEX	TELEX NO.: BOOK OF SIX	DATE: AUGUST 22, 1986
SUBJECT: JAMAICA: ESMAP	DRAFTED BY:	EXTENSION:
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TELEX TO DR. A. KIRTON, P.S., MMET: COPY TO MR. W. SAUNDERS, M.D., PCJ: MS. B. MCSWENEY, UNDP, RESREP: MR. T. COX, UNDP, NEW YORK: MR. H. SIMARD, CANADIAN HIGH COMMISSION: AND MR. D. SHALES AND MS. D. DEMERS, CIDA, OTTAWA. RE JAMAICA - PREPARATION OF ENERGY SECTOR MANAGEMENT ASSISTANCE PROGRAM. (AAA) AS PROPOSED IN OUR TELEX OF AUGUST 13 LAST, AND DISCUSSED YESTERDAY WITH MR. GRANT BY TELEPHONE, WE SET OUT BELOW A PROPOSED AGENDA FOR THE MEETINGS FROM 9/1 THROUGH 9/9 BETWEEN GOVERNMENT, BANK AND OTHER PARTIES TO PREPARE THE ESMAP PROGRAM (FOLLOWING THE SUPPLEMENTARY ENERGY ASSESSMENT REPORT REVIEW). (BBB) THE BANK MISSION WOULD COMPRISE MR. C.R. PONCIA (ENERGY PLANNER) WHO WILL COORDINATE THE MISSION, MR. W. FLOOR (RENEWABLE ENERGY SPECIALIST) WHO WILL REVIEW THE PROPOSED FORESTRY/FUELWOOD AND COGENERATION (SUPPLY SIDE) COMPONENTS AND MR. G. GASKIN (ENERGY CONSERVATION SPECIALIST) WHO WILL REVIEW THE PROPOSED CONSERVATION AND INSTITUTIONAL STRENGTHENING COMPONENTS. (CCC) WE SUGGEST THAT MESSRS. PONCIA AND FLOOR (THE LATTER FULL TIME) SHOULD HAVE THE FOLLOWING MEETINGS:

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CLASS OF SERVICE: TELEX	TELEX NO.: BOOK OF SIX	DATE: August 22, 1986
SUBJECT: JAMAICA: ESMAP	DRAFTED BY: CRPoncia:an	EXTENSION: 75284
CLEARANCES AND COPY DISTRIBUTION: CL. w/& cc: Ms. Bernard, Mr. delVoie (LC2VC), Mr. Larrieu (LCPEN), Mr. Beattie (LCPAB) & Mr. Heidebroek (LCPAB) cc: Messrs. Gaskin, Gulstone, Bates (EGYS2) Floor (EGYS1)	AUTHORIZED (Name and Signature): R.S. Bosik, Division Chief, EGYS2	
	DEPARTMENT: ENERGY	
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9/1 MORNING: INTRODUCTORY MEETING OF ENTIRE GROUP.

9/1 AFTERNOON: AND 9/2: MEETINGS WITH MMET, INSTITUTE OF
PLANNING, FORESTRY DEPT. (DR. JONES), AND SCIENTIFIC RESEARCH
COUNCIL TO REVIEW: 1. GOVERNMENT FUELWOOD POLICY FRAMEWORK,
ONGOING PROGRAMS AND INSTITUTIONAL RESOURCES/CONSTRAINTS AND
BUDGET, 2. AVAILABLE DATA ON THE FUELWOOD CYCLE, INCLUDING WOOD
AND CHARCOAL PRODUCTION, DISTRIBUTION AND CONSUMPTION TRENDS,
FISCAL AND PRICING POLICIES, AND THE ROLE OF KEROSENE, AND 3.
KILN AND STOVE EFFICIENCIES, PENETRATION OF MORE EFFICIENT
DESIGNS (INCLUDING THE PORTABLE METAL KILN EXPERIENCE) AND
POTENTIAL IMPACT ON CHARCOAL CONSUMPTION, AND 4. ANY
INSTITUTIONAL CONSTRAINTS; AND TO DEVELOP THE ESMAP
FORESTRY/FUELWOOD COMPONENT.

9/3: CONTINUE 9/2 MEETING TO PREPARE SECTION OF AIDE MEMOIRE
DEFINING PROPOSED ESMAP FORESTRY/FUELWOOD COMPONENT, WITH BRIEF
RATIONALE, CONSULTANT TOR, BUDGET, CONSULTANT SELECTION
PROCEDURES AND IMPLEMENTATION PROGRAM.

9/4: MEETINGS WITH MMET, JPS, TATE AND LYLE AND AID PERSONNEL
TO EVALUATE POTENTIAL FOR POWER PRODUCTION AND SALE TO JPS, IN
PARTICULAR BY FROME SUGAR ESTATE AND BY FIDCO SAWMILL (AND
OTHER SMALL SCALE PRODUCERS AS APPROPRIATE).

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9/5: MORNING: CONTINUE 9/4 MEETING TO PREPARE SECTION OF AIDE
MEMOIRE REGARDING PHASE I (SUPPLY SIDE) OF ESMAP COGENERATION
COMPONENT, WITH BRIEF RATIONALE, ETC.

(DDD) WE SUGGEST THAT MESSRS. PONCIA AND GASKIN (THE LATTER
FULL TIME) SHOULD HAVE THE FOLLOWING MEETINGS:

9/1: MORNING: INTRODUCTORY MEETING.

9/1 AFTERNOON: MEETING WITH MMET AND AID TO REVIEW RESULTS OF
AID ENERGY SECTOR PROGRAM TO DATE AND POSSIBLE ESMAP FOLLOW-UP.

9/2: MEETINGS WITH MMET, INSTITUTE OF PLANNING, MPUT, INDUSTRY
AND COMMERCE, ISLAND TRAFFIC AUTHORITY, JPS AND PCJ TO REVIEW
ENERGY CONSUMPTION BREAKDOWN BETWEEN MAJOR CONSUMER GROUPS,
IDENTIFY AREAS OF EXCESS CONSUMPTION AND REVIEW ANY
INSTITUTIONAL CONSTRAINTS TO EFFECTIVE CONSERVATION
INITIATIVES; AND TO DEVELOP ESMAP ENERGY EFFICIENCY COMPONENT.

9/3: MEETINGS WITH PRIVATE SECTOR, INCLUDING JAMAICA
MANUFACTURERS ASSOCIATION, CHAMBER OF COMMERCE AND INSTITUTE OF
ENGINEERS AND ARCHITECTS TO IDENTIFY MEANS (REMOVAL OF
CONSTRAINTS, INTRODUCING FISCAL INCENTIVES, ETC.) TO PROMOTE
INCREASED PRIVATE SECTOR INVESTMENT IN ENERGY EFFICIENCY WHERE
FINANCIALLY/ECONOMICALLY JUSTIFIED.

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9/4: MEETINGS WITH CAST/VTDI TO DISCUSS INSTITUTIONAL
STRENGTHENING IN ENERGY EFFICIENCY, AND WITH NAT. DEV. BANK TO
REVIEW UTILIZATION OF EXISTING CREDIT FACILITIES FOR ENERGY
EFFICIENCY INVESTMENT.

9/5: MEETING WITH TREASURY TO OUTLINE PROPOSALS FOR ESMAP
CONSERVATION PROGRAM, TO REVIEW MACROECONOMIC IMPACT OF
POTENTIAL ENERGY SAVINGS AND TO CONSIDER TREASURY RESPONSE TO
RECOMMENDED FISCAL AND MONETARY MEASURES PROPOSED.

9/8: MEETINGS WITH MMET, PCJ AND JPS FIRST TO PREPARE SECTION
OF AIDE MEMOIRE REGARDING PHASE II (JPS PURCHASE SIDE) OF ESMAP
COGENERATION STUDY: THEREAFTER, TO FINALIZE AIDE MEMOIRE
DEFINING EACH COMPONENT OF ESMAP WITH BRIEF RATIONALE,
CONSULTANT TOR, BUDGET, ETC.. PROGRAM SHOULD ALSO CONTAIN ANY
FOLLOW UP TO THE SUPPLEMENTAL PETROLEUM SECTOR ASSESSMENT
REPORT.

(EEE) AS YOU KNOW, WE ARE CONCERNED TO ENSURE THAT
IMPLEMENTATION OF THE ESMAP PROGRAM IS REALISTIC IN TERMS OF
AVAILABLE GOV. RESOURCES, AND THE THE SCOPE AND TIMING OF THE
PROGRAM SHOULD BE DEVELOPED ACCORDINGLY.

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(FFF) 9/9: MORNING: BANK MISSION MEETING WITH CANADIAN CIDA
REPRESENTATIVE TO REVIEW PROPOSED ESMAP PROGRAM.

4

9/9: AFTERNOON: FINAL MEETINGS OF MMET, TREASURY AND OTHER
CONCERNED AGENCIES TO SIGN AIDE MEMOIRE.

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6

(GGG) WE LOOK FORWARD TO HEARING FROM YOU ON THE ABOVE

7

AGENDA. WE MUCH APPRECIATE YOUR ASSISTANCE IN MAKING THE

8

NECESSARY MEETING ARRANGEMENTS AND PLEASE FEEL FREE TO MAKE ANY
REVISIONS YOU MAY CONSIDER APPROPRIATE.

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REGARDS, CHRISTOPHER R. PONCIA, EGYS2, ENERGY DEPARTMENT, WORLD
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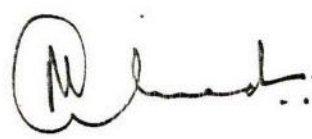
INT/83/005

OFFICE MEMORANDUM

DATE: August 22, 1986

TO: M. Haug, Assistant Director, WAPDR

FROM: M. Ahmed, Acting Division Chief, EGYS1



EXTENSION: 74219

SUBJECT: ESMAP: Togo/Benin - Power System Efficiency Audit
Activity Initiation Brief

1. Attached please find, for your comments and clearance, a copy of the AIB for the Togo/Benin Power System Efficiency Audit and Terms of Reference for the mission scheduled for September 1-29. This draft incorporates the comments received from WAPEG staff.

2. As agreed with Mr. Barque, Minister of Equipment, Mines and Post and Telecommunications, the Audit of the Campagne d'Energie Electrique de Togo (CEET) will focus on:

- (a) problems of non-technical losses and the need for improvements in commercial operations; and
- (b) assessment of options for improving the reliability of the diesel plant (30 MW) and the derated gas turbines (50 MW).

The mission is scheduled to begin work in Togo on or about September 1 for a period of three weeks. The mission will comprise: Mr. Tedeschi (consultant), mission leader; Mr. Nickson (EGYS1), specialist in commercial operations; and Mr. Roeschli (consultant), specialist in diesel plant operation and maintenance. In addition, Mr. Gulstone (EGYS2), who supervises all power system efficiency audits, will join the mission during the third week of September and Mr. Sigwalt (WAPEG) will liaise with the mission beginning September 8.

3. The mission also plans to visit Benin beginning September 22 for about a week to assess the need for ESMAP work on the system of the Societe Beninoise d'Eau et de l'Electricite (SBEE).

4. Please address any questions or comments you may have to Al Gulstone (ext. 73437) or to myself (ext. 74219).

Attachment

cc: Messrs. Husain, Bauer, Davis, Menezes, Mena, Sigwalt (o/r) (WAP);
Skillings, Thiam (WA2)
Churchill, Hume, Bourcier, Saunders, Ferroukhi, Fish,
Heron, McCarthy, Iskander, Dosik, Montfort, Bates,
Decaux (EGY)
Mmes. Haug, Leach (WAP)

cc: EGYS1/S2 Professional Staff

JMMitchell:tla

TOGO/BENIN POWER SYSTEM EFFICIENCY AUDIT

ACTIVITY INITIATION BRIEF

AUGUST 1986

TOGO/BENIN

POWER SYSTEM EFFICIENCY AUDIT

Objectives

The objectives of the power system efficiency audit in Togo will be (a) evaluation of the efficiency of commercial operations, and the level and causes of non-technical losses; (b) review of the general management of the utility, focussing on the inventory management vehicle maintenance and communication systems; (c) assessment of options for improving the efficiency of the diesel plant (30 MW) and the derated (50 MW) gas turbine units, including the option of retiring the diesel plant; and (d) preparation of Terms of Reference for improvements based on findings in (a) and (b). For Benin, the mission will be of a reconnaissance nature, taking into account existing reports available in the Bank on the technical aspects of the distribution system and management of the commercial operations of the combined water and power utility, to determine the scope, if any, for further ESMAP involvement.

Background and Justification

The Energy Assessments for Togo and Benin 1/ have identified the need for prefeasibility work in power system efficiency improvement. Also, in both countries, distribution projects are being prepared which require diagnostic studies of the power systems. In the case of Togo, the scope of ESMAP work has been defined and detailed Terms of Reference are attached for each component (Annexes 1-3). For Benin, however, the scope of ESMAP involvement has not been determined and because of the proximity of the two countries, the mission will visit Benin to gather information and determine whether or not there is a specific role for ESMAP, and, if so, define the scope of work required. Terms of Reference for this reconnaissance work are attached as Annex 4.

Power System Profile

Togo and Benin form a binational interconnected coastal power system for which the Communaute Electrique de Benin is the binational entity in charge of electricity generation and transmission. The two national utilities, the Compagnie d'Energie Electrique de Togo (CEET) and the Societe Beninaise d'Electricite et d'Eau (SBEE), are in charge of national electricity distribution in the coastal system, accounting for more than 90% of each country's power requirements. Most of the power supplied to the coastal systems of both countries is imported hydropower from Ghana's Volta River Authority (VRA). Both national utilities, CEET

1/ Togo: Issues and Options in the Energy Sector, June, 1985.
Benin: Issues and Options in the Energy Sector, June, 1985.

and SBEE, maintain back-up thermal generation capacity for the coastal system and operate inland systems of isolated diesel generation. The most recent actual data available (FY82) indicates generation requirements of 500 GWh for the interconnected system of which 329 GWh are for Togo, 151 GWh for Benin and transmission losses of 20 GWh (4% of energy requirements). In Togo, non-technical losses in distribution are estimated at about 7% of energy entering the subsystem, resulting in an annual financial loss to the CEET of about US\$3 million.

Timing, Staffing and Costs

The mission will conduct the audit from September 1-19. It will consist of a mission leader (Mr. Tedeschi) who also will be responsible for reviewing the general management of the utilities, a specialist in commercial operations (Mr. Nickson) and a specialist in diesel plant rehabilitation and maintenance (Mr. Roeschli). Upon completion of the audit in Togo, Messrs. Tedeschi and Nickson will arrive in Benin on or about September 23 for about one week to conduct a Power System Efficiency Audit Reconnaissance Mission. The total cost of the audit for Togo and the reconnaissance work in Benin is estimated at US\$70,000.

TOGO

TERMS OF REFERENCE

ORGANIZATION AND POLICY

Introduction

On or about September 1 the Consultant will start in Togo as part of a team preparing a Power Efficiency Audit for the Compagnie Energie Electrique de Togo (CEET). The Activity Initiation Brief and the recent diagnostic studies of the power system will be used as basic documents for the work.

Scope of Work

The main responsibility of the Consultant will be to review CEET's organizational and institutional structure with the purpose of preparing a practical and project-oriented program to improve general efficiency, strengthen support services, and assist management in better administering the Company in general. This task includes, but is not limited to the following:

- (a) investigate stores and warehouse management procedures and prepare a program to reduce inventory costs, improve control, and increase material availability;
- (b) study vehicle maintenance and replacement policies and prepare recommendations for vehicle replacement, spare parts and tool acquisition, garage facilities, training and maintenance records;
- (c) prepare a program for upgrading radio and other communications systems; and
- (d) recommend other organizational or institutional changes required.

Reporting

The consultant will submit a concise report that will contain:

- (a) a brief summary of main problems and findings;
- (b) a detailed description of projects/programs that should be undertaken to improve general administrative efficiency;
- (c) a detailed cost estimate of the projects/programs, and a strategy (together with a timetable) for the implementation. Cost estimates should differentiate between local and foreign

components, and between equipment, professional services, travel and subsistence expenditures; and

- (d) an estimate of economic benefits from the implementation of the projects/programs.

CEET Participation

CEET will assist the Consultant in the performance of this assignment by providing the following:

- (a) access to all facilities, stores, documents, and data required to carry out the work;
- (b) information regarding administrative policies, practices and performance data;
- (c) interviews with all relevant parties involved; and
- (d) qualified staff to accompany and assist the Consultant during fieldwork.

TOGO

TERMS OF REFERENCE

NON-TECHNICAL LOSS REDUCTION

Introduction

At or about September 1, the Consultant will start work in Togo as part of a team preparing a Power Efficiency Audit for the Compagnie Energie Electrique de Togo (CEET). The data collected by the recent power sector review mission to Togo and the Activity Initiation Brief provide the background information on the power system and will be used as basic documents for the work.

Scope of Work

The main responsibility of the Consultant will be to prepare a comprehensive action program to reduce non-technical losses, including analysis of program costs, definition of the required legal framework, definition of an adequate institutional and organizational setting, and necessary equipment and computer software requirements to monitor non-technical losses. This task includes, but is not necessarily limited to the following:

- (a) review of the meter reading system, number and location of main consumer groups, operations of metering unit, maintenance and calibration of meters, and estimation of hardware and software requirements for the management of an efficient metering system;
- (b) review of the organization of the billing and collection system, monitoring and control procedures, estimation of hardware and software requirements for an efficient billing and collection system, and review of alternative organizational arrangements for these functions;
- (c) review of connection/reconnection policies and operational practices, penalties for illegal connections, analysis of proposals for improvements/reorganization of these functions; and
- (d) definition of the overall costs and financial returns of the proposed changes and an action plan presenting the implementation strategy of the recommended actions/programs.

Reporting

The Consultant will submit a concise report that will contain:

- (a) a brief summary of the main problems and findings;
- (b) a detailed description of projects/programs that should be undertaken to reduce non-technical losses;
- (c) a detailed cost estimate of the projects/programs, and a strategy (together with a timetable) for their implementation. Cost estimates should differentiate between local and foreign components, and between equipment, professional services, travel and subsistence expenditures; and
- (d) an estimate of financial benefits from the implementation of the projects/programs.

CEET Participation

CEET will assist the Consultant in the performance of this assignment by providing the following:

- (a) access to consumer, connection/reconnection and meter records;
- (b) information regarding billing and collection policies, practices and performance data;
- (c) interviews with all relevant parties involved in the metering, billing, collection and financial departments; and
- (d) access to meter shop and meter installations.

TOGO

TERMS OF REFERENCE

DIESEL PLANT REHABILITATION COMPONENT

Introduction

On or about September 1, the Consultant will start work in Togo as part of a team preparing a Power Efficiency Audit for the Compagnie d'Energie Electrique de Togo (CEET). The Energy Assessment Report for Togo and the Activity Initiation Brief (AIB) provide the background information on the power system and will be used as basic documents for the work.

Scope of Work

The main responsibility of the Consultant will be to review the problems with the 30 MW diesel plant and the derated 50 MW gas turbine units in order to identify the areas where rehabilitation would be economically justified and determine the true profile of firm capacity from the thermal generation plants. The consultant will:

- (a) identify the cause of the recent reduction of efficiency;
- (b) determine the potential for capacity and energy recovery through rehabilitation of the diesel units, including the option of retirement with estimate of the cost of the program;
- (c) review the scope of taking advantage of advances in technology by retrofitting more efficient parts;
- (d) review operational practices for efficiency monitoring and control, including the adequacy and condition of instrumentation and controls;
- (e) review maintenance programs, procedures and effectiveness and spare parts stocks;
- (f) review fuel quality control;
- (g) review opportunities for reducing auxiliary power consumption;
and
- (h) assess the need for training programs to improve efficiency in generation.

The Consultant will establish targets to be used by CEET's staff and management to continue monitoring the efficiency and performance of the diesel units. The targets will be developed for each generating unit and shall consist of the following:

- (a) thermal efficiency targets expressed in kCal/kWh; and
- (b) availability targets expressed in hours/month and kWh/year.

The thermal efficiency target developed by the Consultant will be based upon design and guarantee criteria but modified to reflect actual field conditions. The Consultant will consider the following:

- (a) conditions and age of the unit;
- (b) ambient conditions;
- (c) instrumentation and controls; and
- (d) recommended modifications to plants and units.

Reporting

The Consultant will submit a concise report that will contain:

- (a) a brief summary of main problems to the visited plants;
- (b) a detailed description of targets, projects and programs that should be undertaken to improve efficiency and/or recover capacity in these plants;
- (c) a detailed cost estimate of the projects/programs, and a strategy (together with a timetable) for their implementation. Cost estimates should differential between local and foreign components, and between equipment, professional services, travel and subsistence expenditures; and
- (d) an estimate of economic benefits from the implementation of the projects/programs.

CEET Participation

CEET will assist the Consultant in the performance of this assignment by providing the following:

- (a) access to power stations under study;
- (b) description of each unit to be evaluated;
- (c) design and guarantee criteria, including efficiency and output;

- (d) unit performance test results (commissioning test);
- (e) operating logs and records required to evaluate performance;
and
- (f) qualified engineers to accompany and assist the Consultant
during plant visits.

BENIN

TERMS OF REFERENCE

RECONNAISSANCE MISSION FOR POWER SYSTEM EFFICIENCY AUDIT

Introduction

On or about September 23, after conducting the Power System Efficiency Audit in Togo, Messrs. Tedeschi (Mission Leader), Nickson and Roeschli will visit Benin for about one week to discuss with SBEE specific problems in generation and distribution efficiency and the level and location of system losses. Considering ongoing and planned preparation work for a diagnostic study and a system rehabilitation project, the mission will determine the scope, if any, for further ESMAP involvement and prepare detailed Terms of Reference for recommended ESMAP work.

Scope of Work

The main responsibility of the mission will be to: (a) review completed preparatory work related to system rehabilitation, (b) gather further information required to determine the scope of further ESMAP participation, and (c) prepared detailed Terms of Reference for any recommended prefeasibility work.

All mission members will be briefed by WAPEG staff on the status of the power system in Benin and their views on required improvements. The mission members will review all available materials in the Bank and reach a consensus with WAPEG staff on the main areas to be considered for potential ESMAP involvement.

Reporting

The mission will submit a concise report that will contain:

- (a) a brief summary of the main problems relating to generation efficiency, technical aspects of the distribution system, commercial operations, and technical/non-technical losses in the distribution system; and
- (b) an Activity Initiation Brief (AIB) and detailed Terms of Reference for any ESMAP activity proposed.

SBEE Participation

SBEE will provide:

- (a) Data required on generation, transmission, distribution and commercial operations, operating logs, etc.

- (b) Access to generation, transmission and distribution installations to be visited, if required.

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BOOK OF TWO MESSAGES

1. *sf* MR. MAURICIO GONZALEZ
VICE MINISTER OF ENERGY
MINISTRY OF ENERGY
LA PAZ
BOLIVIA
TLX NO. *355* 2625 BV

2. *sf* MR. PAINTER
UNDP RESIDENT REPRESENTATIVE
UNDEVPRO
LA PAZ
BOLIVIA
TLX NO. *355* 2547 UNDEVPRO BV

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CLASS OF SERVICE:

TELEX NO.:

DATE: *8/20/84*

SUBJECT:

DRAFTED BY:

EXTENSION:

CLEARANCES AND COPY DISTRIBUTION:

AUTHORIZED BY (Name and Signature):

DEPARTMENT:

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TO MESSRS. GONZALEZ, VICE-MINISTER OF ENERGY, LA PAZ, BOLIVIA, AND
PAINTER, UNDP RESIDENT REPRESENTATIVE, UNDEVPRO, LA PAZ, BOLIVIA.
RE: ESMAP BOLIVIA ENERGY STRATEGY.
WE WOULD LIKE TO CONFIRM A MISSION CONSISTING OF MR. IGNACIO
RODRIGUEZ OF THE ENERGY DEPARTMENT AND MYSELF, WHICH WILL VISIT LA
PAZ STARTING ON FRIDAY, SEPTEMBER 5. THE MISSION PLANS TO DISCUSS
THE ROLE TO BE UNDERTAKEN BY ESMAP IN THE ENERGY STRATEGY EXERCISE,
AND IDENTIFY THE MAIN ISSUES TO BE ANALYZED. REGARDS. GABRIEL
SANCHEZ-SIERRA, EGYS2, ENERGY DEPARTMENT, INTBAFRAD.

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CLASS OF SERVICE: TELEX	TELEX NO.: BOOK OF TWO	DATE: 08/20/86
SUBJECT: ESMAP: BOLIVIA EGY STRATEGY	DRAFTED BY: I. Rodriguez:svh	EXTENSION: 7-4694
CLEARANCES AND COPY DISTRIBUTION: c/w (in principle) & cc: Ms. Marshall (LC2PB)	AUTHORIZED BY (Name and Signature): R.S. Posik, Division Chief, DEPARTMENT: ENERGY	
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OFFICE MEMORANDUM

NRIC
INT/83/005

DATE: August 20, 1986

TO: Messrs. Gabriel Sanchez-Sierra and Ignacio Rodriguez, EGYS2

FROM: Richard S. ~~Posit~~, Division Chief, EGYS2

EXT: 7-6894

SUBJECT: ESMAP: PARAGUAY - Supervision of Technical Assistance Project - Terms of Reference

BOLIVIA - Energy Strategy Reconnaissance Mission - Terms of Reference

Paraguay:

1. You will arrive on or about September 1, in Asunción for three working days to complete the first phase of the ESMAP Energy Planning Project, and initiate the second phase. Your tasks will include:

- (a) analyzing the project's achievements;
- (b) participating in the presentation of the results achieved in the first phase to the Government, e.g., energy balance, demand projections, household energy survey;
- (c) reviewing the project's administrative components to complete the first phase; and
- (d) discussing with the Government and the UNDP Resident Representative all the technical, financial, and logistical aspects related to the implementation of the second phase. In particular, you will seek written confirmation from UNDP that IPF funds in the amount of US\$96,000 will be made available for Phase 2.

Bolivia:

2. You will arrive on or about September 5, in La Paz for three working days to define jointly with the Government and UNDP, the ESMAP role to be undertaken in the energy strategy exercise. You will also focus on:

- (a) determining the scope of the work and main issues to be analyzed, jointly with the Ministry of Energy and Mines, the State Petroleum Corporation (YPFB), the National Power Company (ENDE), the woodfuels related institutions, and others; and

- (b) discussing with UNDP and the Government all the financial and logistical aspects of the exercise. You will make clear to UNDP and the Government that the project cannot be implemented unless its full cost, estimated at US\$112,000 is met from the IPF.


3. On your return to Washington, you will prepare a back-to-office report.

Cleared with and cc: Ms. Marshall (LC2PB)

cc: Messrs. Pfefferman, Jaspersen (LCNVP);
Tyler, Aguirre-Sacasa, Jennings (LCPDR);
Nankani (LC2DR); Manley, Zea-Barriga (LC2PB)
Moscote (LCPEN); Abbott (LEGLC);
Dervis, de Capitani (INDDR); Raghavan (INDD2);
Hume, Saunders, Fish, Heron, Iskander, Khelil,
Montfort, Byer (EGY)

Harland, Rothermel/Cox (UNDP, New York)
Chang (UNDP Resident Representative, Asunción, Paraguay)
Painter (UNDP Resident Representative, La Paz, Bolivia)

Mmes. Javier (LC2PB); Gomez-Fernandini (LCPPS)


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DR. A. KIRTON

MINISTRY OF MINING, ENERGY & TOURISM

KINGSTON, JAMAICA

TELEX NO. 381-2436

MR. W. SAUNDERS

PETROLEUM CORPORATION OF JAMAICA

KINGSTON, JAMAICA

~~CABLE 1~~ 381-2356

MS. B. MC SWEENEY

RESIDENT REPRESENTATIVE

UNITED NATIONS DEVELOPMENT PROGRAMME

KINGSTON, JAMAICA

TELEX NO. 381-2245

MR. T. COX

UNITED NATIONS DEVELOPMENT PROGRAMME

NEW YORK, NEW YORK (WUT)

TELEX NO. WDIAL 125980

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SUBJECT:	JAMAICA: ESMAP		DRAFTED BY:	EXTENSION:	
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5. MR. H. SIMARD

Sf

CANADIAN HIGH COMMISSION

30-36 KNUTSFORD BLVD.

KINGSTON 5, JAMAICA

TELEX NO. ~~CABLE 1~~ 381-2130 BEAVER

6. Sf

MR. SHALES

CANADIAN INTERNATIONAL DEVELOPMENT AGENCY (CIDA)

HULL, QUEBEC

CANADA

TELEX NO. 389-~~4140~~ 534140

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CLASS OF SERVICE: TELEX

TELEX NO.: BOOK OF SIX

DATE: AUGUST 13, 1986

SUBJECT: JAMAICA: ESMAP

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TELEX TO DR. A. KIRTON PS MINISTRY OF MINING, ENERGY AND
TOURISM: COPY TO MR. W. SAUNDERS MD PCJ: MS. MCSWEENEY UNDP
RES REP: MR. T. COX, UNDP NEW YORK: MR. H. SIMARD, CANADIAN
HIGH COMMISSION: AND MR. SHALES, CIDA, OTTAWA. RE JAMAICA -
SUPPLEMENTAL REPORT ON PETROLEUM PROCUREMENT, REFINING AND
DISTRIBUTION. (AA) FURTHER TO OUR TELEX OF JULY 22, WE CONFIRM
THAT THE BANK MISSION WILL ARRIVE JAMAICA TO MEET WITH
GOVERNMENT REPRESENTATIVES FOR 3 DAYS STARTING 9:30 AM
WEDNESDAY AUGUST 27. THE MISSION WILL COMPRISE MR. C.R.
PONCIA, ENERGY PLANNER, MR. T.S. NAYAR, REFINERY ENGINEER AND
MR. A. HUNTER, REFINERY CONSULTANT. (BB) THE OBJECTIVE OF THE
MISSION WILL BE TO FINALIZE THE TEXT OF THE DRAFT REPORT
SUBMITTED TO YOU ON JUNE 2 LAST, FOR PUBLICATION AS A BLUE
COVER ESMAP REPORT. (CC) AS DISCUSSED YESTERDAY WITH MR. GRANT,
WE UNDERSTAND THAT 3 DAYS SHOULD BE SUFFICIENT FOR THIS
PURPOSE. HOWEVER, IT WOULD GREATLY FACILITATE THIS TASK IF YOU
WERE ABLE TO ADVISE US BY TELEX OF YOUR PRINCIPAL COMMENTS IN
ADVANCE. (DD) WE PROPOSE THAT FURTHER MEETINGS SHOULD THEN BE
HELD BETWEEN BANK STAFF (INCLUDING MR. PONCIA) AND GOVERNMENT
AND OTHER AGENCIES FOR ABOUT 10 DAYS STARTING SEPTEMBER 1, TO

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CLASS OF SERVICE:	TELEX	TELEX NO.:	BOOK OF SIX	DATE:	AUGUST 13, 1986	
SUBJECT:	JAMAICA: ESMAP		DRAFTED BY:	CRPoncia:am	EXTENSION:	75284
CLEARANCES AND COPY DISTRIBUTION: cl. w/& cc: Ms. Bernard, Mr. delVoie (LC2VC); Mr. Nayar (EGYD2) cc: Messrs. Hume (EGYPS); Larriau (LCPEN); Beattie (LCPAB); Hunter, consultant; (cont.)			AUTHORIZED BY (Name and Signature): R.S. Bosik, Division Chief, EGYS2			
			DEPARTMENT: ENERGY			
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REVIEW THE SCOPE OF THE PROPOSED JAMAICA ENERGY SECTOR
MANAGEMENT PROGRAM, TO BE FINANCED BY CANADIAN CIDA. WE
UNDERSTAND THAT MS. DEMERS OF CIDA WILL BE VISITING JAMAICA AS
FROM SEPT 8, AND WOULD PROPOSE THAT SHE SHOULD JOIN THE CLOSING
MEETINGS. WE WILL TELEX YOU IN MORE DETAIL REGARDING THE
PROPOSED ESMAP PROGRAM AND BANK MISSION COMPOSITION SHORTLY.
REGARDS CHRISTOPHER R. PONCIA.

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CLASS OF SERVICE: TELEX		TELEX NO.: BOOK OF SIX	DATE: AUGUST 13, 1986
SUBJECT: JAMAICA: ESMAP		DRAFTED BY:	EXTENSION:
CLEARANCES AND COPY DISTRIBUTION: GASKIN, GULSTONE, BATES (EGYS2)		AUTHORIZED BY (Name and Signature): DEPARTMENT:	
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The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

INT/83/005

August 13, 1986

Mr. Arjan Hamburger
Ministerie van Buitenlandse Zaken
Bezuidenhoutseweg 67
Postbus 20061
2500 EB den Haag
The Netherlands

Subject: Transmission of a Series of ESMAP Project Proposals for
Co-financing Consideration by the Netherlands Government

Dear Mr. Hamburger:

In response to the recent expression of interest shown by your Ministry in possible co-financing of certain ESMAP activities in Dutch target countries, it is my pleasure to attach for your consideration a series of activities which are due to be launched within the next few months and which would welcome financial support.

For the Eastern Africa region, you will find proposals for Madagascar (Household Energy Resource Assessment) and Rwanda (Improved Charcoal Stoves, Charcoal Production Action Program and Peat Utilization).

For West Africa, two proposals for Ghana are attached (Charcoal Stove Project and Charcoal Production Improvement Strategy), in addition to power sector activities in Guinea Bissau and Benin/Togo (Technical Assistance to the Power Sector and Power Efficiency Audit respectively).

In Asia, two activities in Thailand are attached (Fuelwood/Charcoal Project Preparation and Improved Stove Efficiency/Biomass Utilization Program) and in Malaysia, a Power Sector Efficiency Audit may be of interest.

For the Middle East, a Household Fuel Marketing Study proposal for Yemen Arab Republic is also included for your consideration.

The nature of the proposals for Guinea Bissau, Benin/Togo and Malaysia relate more closely to Mr. Ronhaar's area of responsibility and I would greatly appreciate your forwarding them to him.

If you have any questions or comments on the attached proposals, please do not hesitate to contact either Willem Floor or Katrina Sharkey.

- 2 -

Looking forward to hearing from you at your earliest possible convenience,

Yours sincerely,

A handwritten signature in black ink, appearing to be 'B. Montfort', written over a horizontal line.

Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division I
Energy Department

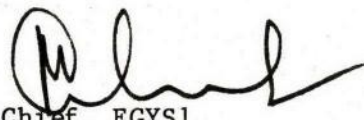
KSharkey:mdd

OFFICE MEMORANDUM

gnt/83/005

DATE: August 25, 1986

TO: Mr. Robert Chronowski, Consultant



FROM: Mr. Masood Ahmed, Deputy Division Chief, EGYS1

SUBJECT: ESMAP: Ghana - Locomoveis power and heat generation system/Terms of reference

1. During your upcoming mission to Brazil from September 2 to 16, 1986, you will visit for 1-2 days the installed Mernak Locomoveis steam cycle system in Cachoeira do Sul to evaluate its technical merits, operating performance, and capital & operating cost in its current configuration.
2. In assessing investment costs, you should determine local and foreign capital costs for construction (civil works), equipment, spares at delivery, transport and delivery of equipment, and commissioning. Local and foreign operating cost should be calculated for labor (skilled, semi-skilled, and unskilled), maintenance, energy consumption (water, sawdust, off-cuts), as well as other necessary operational arrangements.
2. In assessing operating performance you should determine the level of skilled labor required to operate the system, start-up time, as well as whether boiler performance is affected by using a fuel with varying degree of moisture content. You also will detail site specific parameters, which will influence the system's overall performance and hence its economic feasibility. Finally, you should identify any operational problems that have arisen during the system's lifetime, as well as their proposed or actual remedies.
3. Upon your return to Washington you will write up your findings and present a draft report to the Bank.

cc: Messrs. Cofino (LC2), Hume, Montfort, Dosik, Mendis (EGY)

WFloor:ha

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PAGE

OF

OFFICIAL DEPT/DIV
ABBREVIATION

MESSAGE NUMBER

TEST NUMBER
(FOR CASHIER'S USE ONLY)

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EGYS1

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START
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M. J. THIBON, LABORATOIRE DU BATIMENT ET DES TRAVAUX PUBLICS,
ABIDJAN, COTE D'IVOIRE. REF. ANALYSE DE RESIDUS DE
CAFE/PROGRAMME ENERGIE. VEUILLEZ NOUS ENVOYER LES DEUXIEME ET
TROISIEME RAPPORTS MENSUELS D'ANALYSES DE STOCKAGE DE COQUES ET
PARCHES DE CAFE. CONSIDERATIONS, BERNARD MONTFORT, CHEF DE
DIVISION, PREINVESTISSEMENT ET STRATEGIE ENERGETIQUE DIVISION I,
DEPARTEMENT ENERGIE, BANQUE MONDIALE.

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END
OF
TEXT

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INFORMATION BELOW NOT TO BE TRANSMITTED

CLASS OF SERVICE: Telex	FILE NO: 969-42169	DATE: 08/13/86
SUBJECT: ESMAP: Cote d'Ivoire Biomass utilization	DRAFTED BY: Joe Leitmann:ha	EXTENSION: 75507
CLEARANCES AND COPY DISTRIBUTION: cc: Willem Floor	AUTHORIZED BY (Name and Signature): Bernard Montfort, Division chief, EGYS1 DEPARTMENT: Energy	
SECTION BELOW FOR USE OF CABLE SECTION		
CHECKED FOR DISPATCH		

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

INT/83/005

August 12, 1986

Mr. Stroeter
Deutsche Gesellschaft für Technische
Zusammenarbeit (GTZ) GmbH
D-6236 Eschborn 1 (bei Frankfurt am Main)
Postfach 5180
Federal Republic of Germany

Subject: Niger - Improved Stoves Project

Dear Mr. Stroeter:

not enclosed
Please find enclosed for your office five copies of the Improved Stoves Project Mid-Term Progress Report. If you would like any additional copies please let us know. Copies of this report have been made available through the Project Director, Mr. Michael Gajo, to local representatives of GTZ in Niamey, Niger.

We are quite pleased with the success thus far experienced with this project. The first year of the project has been quite promising with over 9% of potential national urban household demand for stoves already met. This encouraging result, as discussed in the report, is due to four main factors: (a) appropriate stove design and production system (including quality control); (b) price setting which meets the needs of producers and consumers and provides real, accruing benefits; (c) extensive sensitization, promotion and publicity campaigns; and (d) use of traditional and modern disseminating and marketing channels.

Upon completion of the report at the end of January 1987, a final report will be prepared and made available.

With best regards,



Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division I
Energy Department

Enclosures

JShanberge:my

(Copy of letter only)

cc: Ms. Martinez (WAI)

Messrs. Bauer, Menezes (WAPEG); Floor (EGY)

Sanger (Resident Representative, Niamey, Niger)

Gajo (Project Director, Niamey, Niger)

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

INT 183/005

August 12, 1986

Mr. Arjen Hamburger
Ministerie van Buitenlandse Zaken
Bezuidenhoutseweg 67
Postbus 20061
2500 EB den Haag
The Netherlands

Subject: Niger - Improved Stoves Project

Dear Mr. Hamburger:

not enclosed
Please find enclosed for your office five copies of the Improved Stoves Project Mid-Term Progress Report. If you would like any additional copies please let us know.

We are quite pleased with the success thus far experienced with this project. The first year of the project has been quite promising with over 9% of potential national urban household demand for stoves already met. This encouraging result, as discussed in the report, is due to four main factors: (a) appropriate stove design and production system (including quality control); (b) price setting which meets the needs of producers and consumers and provides real, accruing benefits; (c) extensive sensitization, promotion and publicity campaigns; and (d) use of traditional and modern disseminating and marketing channels.

Upon completion of the report at the end of January 1987, a final report will be prepared and made available.

With best regards,



Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division I
Energy Department

Enclosures

INT 143/005-

August 11, 1986

Mr. Z.D. Seiner
Deputy Director, UNSO
One United Nations Plaza
New York, New York 10017

Dear Mr. Seiner:

Pursuant to your telephone conversation with Mr. Floor of August 4, 1986 and in reply to your letter of July 24, 1986 in which you expressed your concern that we would proceed with changes in the UNSO Household Energy Project's Budget without your consultation and agreement, let me assure you that this is not the case. The reason why we have not earlier sent you justification for the budget revisions is that the project officer in charge of this project, Mr. Willem Floor, has been on mission followed by home leave, which caused a delay in the processing of this matter. Officers of UNSO and representatives of organizations involved with the project have, however, been kept fully informed of project developments. After starting up this project during an April 1986 mission to Niger, Ms. Jacqueline Shanberge, co-project officer for the Bank, met in New York with Mr. Pierre-Michel Astolfi, Chief, West and Central African Division, UNSO. The two discussed the start-up mission and in particular, the tasks to be undertaken by each consultant hired. For reference, I have included a copy of the Terms-of-Reference for the consultants (in English and French) as Attachment 1. In May 1986, a second mission (Mr. Floor and Ms. Shanberge) visited Niger to discuss the progress of the project and draw up a revised budget. The budget revisions which were discussed and upon which the Government of Niger, the Bank, and the UNDP Resident Representative agreed, were then sent to you by Mr. Cavalli, UNDP Res. Rep. These budget revisions were also discussed in June 1986 with Ms. Sissel Ekaas, Project Officer of the Government of Norway because Mr. Floor happened to be in Oslo following his mission to Niger.

To follow-up the discussions held in Niger and New York, we are including below the proposed budget revisions with justification for the changes. If you agree to these revisions we will draw up a Budget Revision "B" to be signed by all parties concerned.

Proposed Budget Revisions

The following numbers before each revision explanation refer to Budget Line Items. Refer to Attachment 2 for a copy of the revised budget.

- 11.02 The original designation of this budget line mistakenly specifies an LPG specialist, who is also mentioned in the original budget line 11.03. What should have been here is an institutional specialist (for detail on his tasks, refer to page 19, volet 4.1a and b of the UNSO Project Document). This duplication was not spotted by anyone until the budget revision became necessary. Because of the rearrangement of the budget line numbers we suggest putting the briquetting specialist in this line and the institution specialist under line 11.08. The briquetting specialist was added to cover the evaluation of the option of the use of rice-husk and groundnut briquettes (page 17, volet 2.1 of the UNSO Project Document) as agreed as part of the project's objectives. A total of 2 man-weeks were required to carry out this work.
- 11.03 The new budget figure represents real instead of estimated expenditures.
- 11.04 In the original budget there was one budget line for the stove specialist. Since we used two experts we decided to separate their expenses and give each a budget line in accordance with their estimated number of man-months requirements. The total amount of the new budget lines 11.04 plus 11.05 is the same as the original 11.04.
- 11.05 See explanation given under 11.04.
- 11.06 This line was 11.05 in the original budget. The proposed budget increase for the energy economist has been caused primarily by the devaluation of the US dollar and that the original consultants' estimates were too low for this type of highly specialized work. The underestimate made on the initial budget was our mistake. The proposed amount represents actual cost, both consultant's fees and local expenditure.
- 11.07 This line was 11.06 in the original budget. The exchange in man-months between the energy economist and the marketing specialist are caused by their internal division of labor as agreed upon with the Bank (refer to each of the consultant's TORs in Attachment 1).
- 11.08 This originally was budget line 11.02 (though mis-named) for which two man-months were reserved. Once the consultant was selected, the amount of time agreed upon to complete the work was reduced to only one man-month.
13. The support staff cost was reduced based on expected expenditure patterns.
22. Remained the same.

23. Support to the improved wood stove program designated under the original budget was deleted, since that project received funds from the Dutch government which enabled the project to continue activities along the lines of page 17, volet 1 of the UNSO Project Document. Consequently, the UNSO project received support for designing the improved wood stove component of the Household Energy Strategy at zero. Instead of the Stove Program Support being put under this line, this line was switched with what was originally line 24. The money now designated under this line is to be used for volet 4.1 (page 19) of the UNSO Project Document. A pilot activity has been formulated by the consultants and detailed out in the consultant's report. It is to be executed by the Forestry Service.
24. The forestry work originally designated under this line was moved to line 23. Work for development of a kerosene stove is now proposed for this line. During the laboratory and field stove tests, it became clear that all internationally available kerosene stoves had too low a power output to be suitable for Nigerien cooking. The consultants adapted one type of stove, the best one available, which performed adequately, however, the women complained about the long time it took to cook the food. It therefore became clear that in order to have a good performing stove, some hardware design work had to be done. Problems with the kerosene stove hardware were discussed with the consultants during the May 1986 mission and thus the Bank, the Government and the UNDP Res. Rep. agreed to allocate funds to design a stove that could specifically meet the Nigerien needs. Accordingly, a revision was made in the budget for this design activity. (The proposed contract for this work will be sent shortly. The work is scheduled to begin in September 1986.)
- 41.01 No change.
- 41.02 No change.
42. This budget line has been considerably increased because the Government requested a computer to be bought with project funds. We did not totally disagree with this purchase since the consultants needed a computer for their design of the strategy. Moreover, a computer also could be useful for the follow-up activities allowing the Government to make the necessary adaptations in the strategy (e.g. prices, penetration rates). We, therefore, formulated a number of conditions that would have to be met before we would agree to the purchase of a computer. The Government's response to these conditions is included with this letter as Attachment 3. It is too late for the computer to be used by the consultants, they made use of the Bank's office facilities at no cost to the project. However, the purchase of a computer for use by the Direction de l'Energie

in the follow-up Energy Project as detailed by the Government in Attachment 3 could still be justified.

- 43. The estimated amount of money did not suffice and the proposed amount represents actual expenditure.
- 51. No change.
- 53. The amount here has been increased to reflect expenditures related to O&M cost of the computer (budget line 42).

We look forward to your comments on and clearance of the above proposed budget revisions. Please direct any comments or questions to Mr. Floor (202) 477-5425 or Ms. Shanberge (202) 477-5535.

With best regards,



Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division I
Energy Department

Attachments

no attachments

cw & cc: Messrs. Gabriel (WAPPS); Depuy (LEGWA)

cc: Messrs. Bauer, Menezes (WAPEG); Bagheri (LOATF)

Ms. Martinez (WA1)

WFloor/JShanberge:my

INT/83/005

Ministère des Relations Extérieures
A l'attention de Monsieur Guillaud
20 rue Monsieur
75007 Paris
France

le 8 août 1986

Objet: Programme conjoint PNUD/Banque Mondiale concernant l'énergie (ESMAP). Activités au Congo. Dotation française au programme.

Cher Monsieur,

Suite à notre réunion du 11 juillet dernier à Paris en compagnie de Monsieur Joo', nous avons réexaminé les possibilités de co-financement entre le gouvernement français et le programme ESMAP en ce qui concerne le Congo. L'enveloppe envisagée avec vous pour ce pays serait de US\$ 200.000 environ, dont l'équivalent de FF 400.000 proviendrait du reliquat de l'étude TRANS ENERG, tandis que le reste serait apporté par ESMAP.

Compte tenu de votre intérêt pour le secteur électrique, nous vous proposons l'une des deux variantes suivantes (termes de référence en annexe 1).

La première porterait uniquement sur le secteur électrique. Il s'agirait d'un projet pour la préparation d'un plan de développement à moyen terme (1986-1996), réalisé en quatre étapes (\$175.000 à \$200.000 au total):

- (a) Projection de la demande et définition du niveau de sécurité à atteindre à Brazzaville et à Pointe Noire.
- (b) Définition d'une séquence d'installation optimale des moyens de production et transports requis.
- (c) Détermination des spécifications techniques et sélection des sites d'implantation des moyens de production thermiques.
- (d) Définition des études de faisabilité à entreprendre sur les sites hydrauliques.

L'autre variante comprendrait:

- (a) la définition des études de faisabilité sur les sites hydrauliques (\$45.000); et
- (b) l'étude sur le charbon de bois dont je vous ai entretenu à Paris (\$150.000).

Je suppose que la première variante réponds davantage aux priorités que Monsieur Joo' et vous-même avez exprimées à Paris. Cette variante constitue en fait le dernier volet d'une série d'activités successives présentée au gouvernement congolais, et dont le financement des premiers volets est envisagé par la Banque à l'intérieur du deuxième projet d'assistance technique, actuellement en préparation. ESMAP coordonnerait de toute façon le calendrier d'exécution de l'activité qui vous est proposée avec celles qui seraient financées par la Banque, et assurerait l'initiation des premières étapes avant la fin de l'année 1986. L'activité en question a été ajoutée à la version modifiée de la liste qui avait été communiquée à Monsieur Nemo sous couvert d'une lettre de Monsieur Rothermel en date du 12 mai 1986. Vous trouverez cette liste ci-jointe, en annexe 2.

Si cette proposition vous agréée, je vous serais reconnaissant de vous mettre directement en relation avec Messieurs Rothermel et Cox à New York pour la signature des documents appropriés (échange de lettre ou avenant) et le transfert de la dotation de FF 4 millions destinée au financement de nos programmes.

J'adresse copie de la présente à Monsieur Joo' ainsi qu'à Monsieur Rothermel (UNDP, New York) et à Monsieur Richard Dosik dont je vous ai indiqué qu'il dirige la Division de Stratégie et de Préinvestissement Energétique 2 depuis le 1er juillet.

En vous remerciant de l'opportunité de travailler ensemble sur les études énergétiques du tiers monde, je vous prie d'agréer, cher Monsieur, l'expression de mes sentiments distingués.



Bernard Montfort
Directeur Adjoint par intérim,
Département d'énergie,
Banque mondiale

Copie: M. Julien Joo'

Chef du Bureau des Mines et de l'Energie
Ministère des Relations Extérieures
Coopération et Développement
1 bis, Avenue de Villars
75007 Paris

M. Timothy Rothermel
UNDP
304 East 45th Street
New York, NY 10017

P.J.: Liste d'activités ESMAP

cc: Messrs. Bouhaouala, Bauer, Ouahes, Davis, Menezes (WAP);
Churchill, Hume, Ferroukhi, McCarthy, Iskander, Dosik,
Ahmed, Gulstone, Sharkey, Perine (EGY);
Palein, Homsî, Kranjec (WA2DC); Singh (WA2DR);
Mme. Leach (WAP)

BMontfort:dap

REPUBLIQUE POPULAIRE DU CONGO

Société Nationale d'Electricité - Plan de Développement à Moyen Terme
Termes de Référence
(Version abrégée)

Le consultant fera une projection de la demande sur les 10 prochaines années pour le réseau interconnecté. Il devra s'inspirer des études déjà exécutées à ce sujet, qu'il conviendra d'amender ou de corriger. Il considérera au moins deux scénarios.

Le consultant devra définir et proposer un niveau de qualité de service approprié pour les villes de Brazzaville et Pointe Noire. Il devra tenir compte: (i) des considérations de sécurité; (ii) des exigences particulières de certains clients; (iii) des conditions locales; (iv) des capacités techniques et financières de la SNE.

A partir des prévisions de la demande et tenant compte des travaux de réfection des équipements existants, le consultant proposera un plan de développement des moyens de production et transport pour la période 1986-1996. Ce plan devra représenter la séquence d'installation la plus économique pour la SNE.

Pour les moyens de production thermique, le consultant devra déterminer les caractéristiques détaillées des groupes, sélectionner les sites d'implantation, et préparer les spécifications techniques et les plans en vue d'un appel à la concurrence internationale.

Pour les moyens de production hydrauliques, le consultant devra examiner les inventaires existants des sites hydrauliques, sélectionner les plus appropriés au plan de développement, et définir un programme d'études de faisabilité à entreprendre.

CHARCOAL PRODUCTION FOR EXPORT
Draft Project Outline

Production of charcoal, mainly for export markets, is one of the uses under consideration for the eucalyptus plantations managed and operated by the Unite d'afforestation industrielle du Congo (UAIC) at Pointe Noire. Just over 23,000 ha are planted currently, with expansion plans to 50,000 ha. Exploitation of the first crop for producing electric poles will start in late 1986. Charcoal could be produced using the residues from this operation; alternatively, direct exploitation of the crop for charcoal production could be considered.

The study would be undertaken in two phases. Phase I includes the following components:

1. Review suggested scenarios for plantation utilization and/or design alternatives to evaluate in each case
 - (a) total biomass and residue availability by site and time,
 - (b) potential production sites and organization and management of production at each site, and
 - (c) investment and management options for sustaining minimum volumes for economic production.
2. Assess national and international markets for size of potential demand, competitive delivery costs, transport options and organization.
3. Select most appropriate technology and conduct a financial and economic analysis of production and transport to identified markets.

If the results of Phase I are favorable, the study would proceed into Phase II:

1. Training in the operation of selected kiln model(s).
2. Test selected kiln model(s) to monitor performance, production quality, and operational constraints.
3. Design future global production strategy based on the outcomes above, outlining costs and financial requirements for continued/expanded production, further training requirements, and technical and logistical design.

Activités de préinvestissement et de préfaçabilité
dans le cadre du PAGE 1986

Pays	Activité	Coût	Critères
		(\$ E.U.)	
Congo	Plan de développement 1986-1996	200.000	2
Côte d'Ivoire	Diagnostic énergétique du système électrique	90.000	2
Sao Tomé et Principe	Inventaire forestier/étude sur l'offre et la demande de combustibles ligneux	134.000	3
Madagascar	Planification de l'énergie dans la région du Lac Alaotra	250.000	1
Haiti	Foyers améliorés à charbon de bois	85.000	3
Rwanda	Production de charbon de bois	31.000	3
Rwanda	Perspectives d'utilisation de la tourbe	325.000	3
		<u>1.115.000</u>	\$ EU

GH- Energy Sector
(EGY assessment)

ZCZC WAFF5121 JWS0622
EGYS1 WA1DB GSDCB
REF : TCP FCA

P-336 INT/83/005

ACC0841
EGYS1 WA1DB
.IBRDACC
INTBAFRAD ACCRA, GHANA, AUGUST 4, 1986
RE ENERGY ASSESSMENT REPORT.
LETTER SENT TO MISSION ON AUGUST 4, 1986 AND SIGNED BY AG. CHIEF
DIRECTOR, MINISTRY OF FUEL AND POWER, MR. J.K. OWUSU INFORMS
MISSION THAT IN ORDER TO CO-ORDINATE REACTIONS ON THE ABOVE
REPORT FROM ALL RELEVANT INSTITUTIONS GOVERNMENT WILL PREFER
THE BANK MISSION TO ARRIVE ON THE WEEK OF SEPTEMBER 8, 1986.
THE INCONVENIENCE CAUSED IN CHANGING THE DATES IS GREATLY
REGRETTEED. THIS NEW DATE SUPERCEDES ALL OTHER DATES PREVIOUSLY
FIXED. PARTICIPANTS IN ALL RELEVANT INSTITUTIONS INFORMED
ACCORDINGLY. REGARDS, DUFO.

=08060904

--POSSIBLE DUPLICATE--

NNNN

INT/83/005

8/1/86

Back to office
report

OFFICE MEMORANDUM

DATE: August 1, 1986

TO: Mr. Saunders, Acting Assistant Director, EGY

FROM: Bernard Montfort, *Chief*, EGY61

SUBJECT: Visit to the French Government on July 10-11, 1986
Back to Office Report

1. In accordance with my Terms of Reference, I visited the Ministère des Relations Extérieures/Coopération et Développement (MRE/CODEV). Specifically, I met with Mr. Guillaud (Directeur des Politiques de Développement) and Mr. Joo' (Chef du Bureau des Mines et de l'Energie), our current contacts in the Ministry at the working level.

2. One objective of the visit was to respond to the Ministry's wish to be periodically informed about the development of ESMAP. The other objective was to secure the FF 4 million pledge made by the French delegation to the January 1986 Paris meeting on ESMAP. It was confirmed to me that the Ministry is ready to honor its pledge along the conditions outlined in my back-to-office report of March 12, 1986, i.e. the contribution will by and large be untied. However there is one small outstanding problem to be resolved before the transfer of funds can be effected, concerning our activities in the Congo, as outlined below.

3. Mr. Joo' is keen on getting involved with us in further energy work in the Congo and the Ministry is prepared to contribute an additional FF 400.000 (left over from the Trans Energ study) toward the financing of key ESMAP activities, under the assumption that the balance will be financed by ESMAP. I was ready to discuss this subject since it had already been raised by Mr. Joo' with the Congo Assessment mission (with Mr. Ferroukhi in the field, and Ms. Perine in Paris) and proposed a feasibility study for charcoal production from the Unité d'afforestation industrielle du Congo (UAIC) plantations. Mr. Joo' responded that, while he was possibly interested in a charcoal study, he felt it was not central enough to the Congolese energy sector problems. He would like to use the additional French contribution on something more central and visible, in power for example. The financing would be shared between the French (FF 400.000 additional funds) and ESMAP (FF 1 million). Although this in a way results in tying a portion of the FF 4.000.000 contribution, I believe we should accept it. Firstly, we wish to go ahead with an ESMAP program in the Congo, which in any event will include power sector activities coordinated with those being prepared by WAPEG under the Second Technical Assistance Project. Secondly, there are few donors interested in financing ESMAP power sector work. Finally the list of ESMAP activities sent to the French government by Mr. Rothermel on May 12 (Annex 1) had to be modified anyway because of the postponement of a few activities. The proposed revised list is attached in Annex 2.

Next Steps

3. All we have to do is send to Mr. Guillaud the updated list of ESMAP tasks in Annex 2. Upon receipt of such updated list, the Ministry will dispatch to UNDP a contract amendment 1/ to be signed and returned to the Ministry. The FF 4.000.000 will then be transferred to UNDP.

4. I pointed out that it may prove difficult to achieve substantial disbursements during CY86 on any ESMAP activity added to the list at this late hour. This however is not an issue for the Ministry, and Mr. Guillaud indicated that the CY86 contribution to ESMAP will be justified if the activities are simply "initiated" in CY86.

Attachments

cc. Messrs.: Bouhaouala, Bauer, Davis, Menezes (WAP);
Hume, McCarthy, Iskander, Dosik, Ahmed (EGY);
Palein, Homsî, Kranjec (WA2DC); Singh (WA2DR);
Harland, Rothermel/Cox (UNDP, New York)

Mme.: Leach (WAP)

BMontfort:dap

1/ Although Messrs. Tom Cox and Guillaud had agreed that a simple exchange of letters was sufficient, it appears that the wording of the original agreement between UNDP and the French Government requires a more formal amendment.

Activités de préinvestissement et de préfaisabilité
dans le cadre du PAGE 1986

Pays	Activité	Coût total	Critères
		(\$ E.U.)	
Côte d'Ivoire	Diagnostic énergétique du système électrique	90.000	2
	Stratégie de l'énergie pour les ménages	400.000	3
	Conservation de l'énergie dans l'industrie et les transports	115.000	1
Sao Tomé et Príncipe	Inventaire forestier/étude sur l'offre et la demande de combustibles ligneux	134.000	3
Madagascar	Evaluation des ressources énergétiques pour les ménages	400.000	1
	Planification de l'énergie dans la région du Lac Alaotra	200.000	1
Ile Maurice	Diagnostic énergétique du système électrique	150.000	2
Djibouti	Diagnostic énergétique du système électrique	70.000	2
	Gestion de la demande de l'énergie	40.000	1
Haiti	Chauffe-eau solaires et séchage solaire des cultures	85.000	3
	Foyers améliorés à charbon de bois	85.000	3
		1.769.000 \$ EU	
		soit millions FF	

Activités de préinvestissement et de préfaisabilité
dans le cadre du PAGE 1986

Pays	Activité	Coût total	Critères
		(\$ E.U.)	
Congo	Plan de développement 1986-1996	200.000	2
Côte d'Ivoire	Diagnostic énergétique du système électrique	90.000	2
Sao Tomé et Principe	Inventaire forestier/étude sur l'offre et la demande de combustibles ligneux	134.000	3
Madagascar	Evaluation des ressources énergétiques pour les ménages	400.000	1
	Planification de l'énergie dans la région du Lac Alaotra	200.000	1
Ile Maurice	Diagnostic énergétique du système électrique	150.000	2
Djibouti	Diagnostic énergétique du système électrique	70.000	2
	Gestion de la demande de l'énergie	40.000	1
Haiti	Chauffe-eau solaires et séchage solaire des cultures	85.000	3
	Foyers améliorés à charbon de bois	85.000	3
		<u>1.454.000</u>	\$ EU
		soit	millions FF

OFFICE MEMORANDUM

DATE: August 1, 1986

TO: Mr. Jean-Claude Balcet, Resident Representative, Guinea

FROM: Bernard Montfort, Division Chief, EGYS1

SUBJECT: GUINEA: Energy Assessment
Green Cover - French Version

1. Please find enclosed in the Bank pouch of August 4, 1986, 45 copies of the above-named report. Along with the letter enclosed, we recommend the following distribution to the Government:

Ministeres des Ressources Naturelles, de l'Energie et de l'Environnement (12 for the MRNEE and 6 for SNE)	18
Ministeres du Plan	4
Ministere de l'Economie et des Finances	2
Banque Centrale	2
Secretariat d'Etat au commerce	4
Secretariat d'Etat aux eaux et Forets	4

TOTAL	34
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2. The remaining 6 copies are for the Bank's resident mission. If you feel a different distribution is more appropriate, please let us know.

3. Concerning scheduling of the mission to discuss the Green Cover, we will contact you shortly.

Enclosures

(Memo and Letter Only)

cc & cl: Mr. Cadario (WA2)

cc: Messrs. Skillings (WA2); Bauer, Wilton, Mikhail, Mithrani (WAPEG);
 Gorse (WAPAC); Trabucco, Ahmed (EGY)

Mmes. Haug (WAPDR); Larrecq, Manuelyan-Atinc (WA2)

JShamberge:my

le 28 juillet 1986

Son Excellence
Docteur Ousman Sylla
Ministre des Ressources Naturelles,
de l'Energie et de l'Environnement
Conakry, République de Guinée

Monsieur le Ministre,

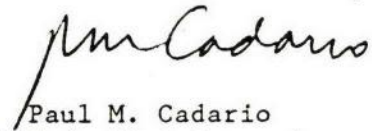
Nous avons l'honneur de vous remettre ci-joint la version française de notre rapport d'évaluation du secteur de l'énergie, intitulé: "Guinée: Problèmes et Choix Energétiques". Ce rapport couvre les trois principaux sous-secteurs énergétiques: électricité, pétrole, bois et énergies renouvelables. Il analyse également les problèmes institutionnels et les questions d'assistance technique. Au début du rapport, un chapitre est consacré aux rapports entre le secteur de l'énergie et l'économie guinéenne dans son ensemble.

Par rapport à la version anglaise, remise le 30 mai 1986, cette version quasi-définitive essaie de tenir compte des discussions que vous avez organisées les 23 au 26 juin concernant le plan directeur de l'électricité et l'avenir de la SNE. Nous aimerions souligner l'importance que nous attachons à la création de la nouvelle SNE, une société qui disposera de l'autonomie financière et d'un pouvoir de gestion et de planification indépendant, sans l'interférence externe qui jusqu'à maintenant l'a empêchée de remplir sa mission. Comme le rapport le propose, nous croyons que les recommandations de Tractionnel vous fournissent les bases d'une stratégie appropriée pour le redressement de la compagnie, qui constitue un préalable et la sine qua non à tout investissement futur dans le secteur, ainsi qu'à l'appui accru des bailleurs de fonds comme l'IDA.

En outre, nous pensons que les observations concernant l'organisation du secteur pétrolier, et notamment les mesures envisageables pour remettre au pied le système d'importation, de distribution et de ventes des hydrocarbures méritent d'être étudiées dans le cadre des discussions concernant la privatisation des activités de l'ONAH, car nous avons l'impression que les offres des trois intervenants potentiels n'ont pas encore tenu compte des exigences d'une organisation saine et efficace.

Avec les retards dans la traduction de ce document, ainsi que la nécessité d'y refléter les conclusions des réunions du 23 juin, la mission que nous proposons d'envoyer à Conakry n'aura lieu qu'au mois de septembre prochain, à une date qui vous sera proposée prochainement. Après le retour de la mission, nous rédigerons la version finale du rapport dont copie vous sera adressée. Ce document pourra être utile pour la réunion prochaine du Groupe Consultatif pour la Guinée, que la Banque Mondiale organise avec la collaboration du Ministère du Plan et de la Coopération Internationale.

Nous vous prions d'agréer, Monsieur le Ministre, l'expression de
notre haute considération.



Paul M. Cadario
Chef de Division p.i.
Département des Programmes
Région Afrique de l'Ouest

Copies à:

SE Edouard Benjamin, Ministre délégué auprès de la Présidence de la
République chargé du Plan et de la Coopération Internationale


SE Lamine Bolivogui, Ministre de l'Economie et des Finances

SE Kerfalla Yansané, Gouverneur de la Banque Centrale
de la République de Guinée

SE Kory Kondiano, Secrétaire d'Etat au Commerce

SE Mamadou Tiana Diallo, Secrétaire d'Etat aux Eaux et Forêts

Nous vous prions d'agréer, Monsieur le Ministre, l'expression de
notre haute considération.


Paul M. Cadario
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Région Afrique de l'Ouest

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de la République de Guinée

SE Kory Kondiano, Secrétaire d'Etat au Commerce

SE Mamadou Tiana Diallo, Secrétaire d'Etat aux Eaux et Forêts

Cleared with and cc: Messrs. Bauer, Ahmed

cc: Messrs. Skillings, Wilton, Mikhail, Mathrani, Gorse, Trabucco
Mmes. Haug, Larrecq, Manuelyan Atinc, Shanberge

PMCadario:pmc/as

GH - Energy Sector
(Egy Assess)

F338

INT/83/005

ZCZC WAFF4979 JWS0741
EGYS1 WA1DB EGYD2
REF : TOP D.S.

JWS0741 ZJO770 IN 31/10:45 OUT 31/10:52
2188 PETCOM GH

FRM: PETCOM ACCRA DATE: 31/7/86

TO: MR. MASOOD AHMED AG. CHIEF, ENERGY STRATEGY WORLD BANK USA

CC: MR. S.H. CHOI - RES. REP. IBRD. ACCRA

QUREF MFP/226/SF.12

TKS FOR YR SUBMISSION OF THE GHANA ENERGY ASSESSMENT REPORT, WHICH REACHED US ON JULY 24, 1986 X REGARDING THE PROPOSED DATE OF AUG. 4, FOR THE ARRIVAL OF THE BANK'S MISSION IN ACCRA TO DISCUSS THIS REPORT WITH THE GHANA GOVT., WE WUD PREFER THAT THIS BE DEFERRED IN ORDER TO ALLOW TIME FOR MFP TO CO-ORDINATE REACTION TO REPORT BY THE RELEVANT INSTITUTIONS AS WELL AS FOR COMPLETION OF PRELIMINARY REPORT BY LOCAL CONSULTANTS FOR THE ESMAP SAWMILL RESIDUE UTILIZATION STUDY, EXPECTED BY AUG. 15 X WE THEREFORE PROPOSE THAT THE MISSION ARRIVE IN ACCRA ON AUG. 1986 X

RGDS

LED DENKYI
AG. TECH. DIRECTOR

2188 PETCOM GH

2188 PETCOM GH

FRM: PETCOM DATE: 31/7/86

TO: MR. J. DEVILLE. BEICIA FRANCE

CC: MESSRS. MAGDI R. ISKANDER/NGUYEN TIN. ENERGY DEPT WORLD BANK

QUREF MFP/226/SF.7

RE: ENERGY PROJECT - CREDIT 1373 X NATURAL GAS UTILIZATION STUDY AND YR PENDING VISIT TO ACCRA X WE ARE STANDING BY TO RECEIVE YOU IN ACCRA ON TUE. AUG. 5, 1986 X WE HV NO OBJECTION TO YR INCLUSION OF MR. ASTIN IN THE TEAM PROVIDED BEICIA WUD SUBMIT A FORMAL REQUEST FOR HIS INCLUSION AND ALSO HIS C.V. X COPIES SHD BE MADE AVAILABLE TO THE WORLD BANK X

LEO DENKYI
AG. TECH. DIRECTOR

2188 PETCOM GH

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ALT RTD FROM:WAF

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START
2 HERE

MR. YOSHIHIRO KISHI, UNDEVPRO, UNDP ASSISTANT RESIDENT *INT/83/005-*
REPRESENTATIVE, DHAKA, BANGLADESH.
REGARDING SOLAR PHOTOVOLTAIC (SPV) STUDIES IN BANGLADESH.
REFERING TO YOUR INTEREST IN FUNDING THIS PROJECT SHOWN DURING
OUR PREVIOUS MEETINGS WITH YOU:

- o 1ST MEETING, NOVEMBER 1985, WITH MR. A. MALIK, RENEWABLE
ENERGY SPECIALIST;
- o 2ND MEETING, FEBRUARY 1986, WITH MR. H. SHIBUSAWA, SPECIAL
ADVISER TO THE VICE PRESIDENT, SOUTH ASIA REGION;
- o 3RD MEETING, MARCH 1986, WITH MR. R. IBRAHIM, FORMER
CONSULTANT. WE HEREBY EXPRESS THANKS FOR YOUR ABOVE
INTEREST. WE ARE NOW PREPARING THIS PROJECT DOCUMENT AND WE
WOULD APPRECIATE YOUR INFORMING US OF THE LATEST STATUS OF
YOUR PROPOSED FUNDING OF THIS PROJECT. FOR YOUR REFERENCE,
I AM SENDING THIS TELEX ON BEHALF OF MR. A. MALIK WHO IS
ILL. BEST REGARDS, TOM KANASE, EGYS2, ENERGY DEPARTMENT,
WORLD BANK.

END
OF
TEXT

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CLASS OF SERVICE: TELEX

950 - 642582 UNDP BJ

DATE: July 30, 1986

SUBJECT:
ESMAP: BANLADESH - Photovoltaics

DRAFTED BY:

TKanase:jrs

EXTENSION:
75466

CLEARANCES AND COPY DISTRIBUTION:

Discussed with Mr. del Buono.

AUTHORIZED BY (Name and Signature):

Richard S. Bosik, Div. Chief, EGYS2

DEPARTMENT:

ENERGY

SECTION BELOW FOR USE OF CABLE SECTION

CHECKED FOR DISPATCH



Record Removal Notice

File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
Document Date July 29, 1986	Document Type Letter			
Correspondents / Participants To: Director General, Multilateral Department, Ministry of Development Cooperation (Norway) From: Anthony A. Churchill, Director, Energy Department				
Subject / Title Letter of agreement between the Government of the Kingdom of Norway and IBRD regarding the joint UNDP/World Bank Energy Sector Management Assistance Programme (ESMAP) energy strategy studies in Senegal and Burkina Faso.				
Exception(s) Financial Information iv				
Additional Comments		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Kim Brenner-Delp</td><td>Date November 02, 2022</td></tr></table>	Withdrawn by Kim Brenner-Delp	Date November 02, 2022
Withdrawn by Kim Brenner-Delp	Date November 02, 2022			

OFFICE MEMORANDUM

INT/83/005

DATE: July 29, 1986

TO: Distribution

FROM: Bernard Montfort, Division Chief, EGYSl

SUBJECT: Niger: Improved Stoves Project
Mid-Term Progress Report*not attached*

1. Please find attached a copy of the final printed version of the Niger Improved Stoves Mid-Term Progress Report. This report discusses the progress made during the first year of the Project (February 1985 - March 1986) and the work being carried out during the second year. It is based on nine consultants' reports and on observations and conclusions made during the January 1986 Supervision Mission (Messrs. Montfort, Floor, and Ms. Shanberge) and the April 1986 Mission (Ms. Shanberge).

2. The first year of the Project has been quite promising with over 9% of potential national urban household demand for stoves already met. This encouraging result, as discussed in the report, is due to four main factors: (a) appropriate stove design and production system (including quality control); (b) price setting which meets the needs of producers and consumers and provides real, accruing benefits; (c) extensive sensitization, promotion and publicity campaigns; and (d) use of traditional and modern disseminating and marketing channels.

3. For any questions or comments on this ongoing project, please contact Mr. Willem Floor (Ext. 75425) or Ms. Jacqueline Shanberge (Ext. 75535).

Distribution

Messrs. O'Brien, Thalwitz (WAPVP);
Fuchs, Husain, Bouhaouala, Bauer, Davis, Menezes, Wilton,
Steed, Falloux, Gorse, Long (WAP);
Alisbah, Isenman, Hinkle, Heim, Vuylsteke, Gabriel (WAI)
Singh (WA2); Rajagopalan, Raphaeli (PPD); Dubey (CPD);
Richardson (CDD); Riley (IRD); Ludvik (EISVP);
Bourcier, Hume, Saunders, McCarthy, Iskander, Dosik, Fish,
Heron, Ahmed, Floor (EGY)
Harland/Rothermel/Cox UNDP (New York)

Mmes. Leach (WAP); Martinez, Bendokat (WAI)

cc: EGYSl Professional Staff (memo only)

JShanberge:my



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& Records Management

File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
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Correspondents / Participants To: Director General, Multilateral Department, Ministry of Development Cooperation (Norway) From: Anthony A. Churchill, Director, Energy Department				
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Exception(s) Financial Information iv				
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Withdrawn by Kim Brenner-Delp	Date November 02, 2022			

DATE : July 25, 1985

TO : Mr. Gautam S. Kaji, Director, AEA

FROM : Antony P. Cole, Chief, AEASE

SUBJECT: OVP Meeting of July 31 - Review of Energy Assessments

INT/83/005
INT/80/009
cc. P - minutes of the
OVP meeting

1. Mr. Hume is seeking guidance from the OVPs on the future for energy assessment activities (ESAP) and preinvestment and institutional development activities (ESMAP).
2. As you know the Korea and China Divisions managed their own energy assessment programs whereas Thailand's assessment was managed by the Energy Department. If Johannes has time to comment on his return, it may be useful for him to compare the two approaches. My comments on Mr. Hume's proposals are based on the Thailand experience.
3. Proposal 1 - The maintenance of a core energy sector team in the strategy and Preinvestment Divisions EGY to carry out priority sector tasks in the larger, more complex countries.
4. Comment - Despite the many issues and problems that may have arisen in the establishment of a central function to carry out the assessment work, I believe it would have been difficult for the Bank to have moved as fast as it has to develop an in-house capacity and carry out the assessments it has completed with other approaches. However, energy sector issues, whether they are concerned with policies, investments, or institutions are so important that there is an extremely strong case for the resources and management of sector work to be regionalized. In my view there is a stronger case for this in the larger countries that could justify the regionalization of a critical mass of skills, than for smaller countries where it might be more difficult to support a balanced team of staff with appropriate skills.
5. Regionalization would facilitate better integration of energy sector issues into the country dialogue and better project identification and preparation. It is particularly desirable to move away from the traditional subsector approach to broader sector issues especially the interrelationships of common fuel markets that are not covered by the traditional subsectors. The option of full or partial regionalization of the energy sector resources and sector work management should be looked into more thoroughly before agreement is given to the continuation of a core sector work staff as proposed.
6. As you are aware, our experience in Thailand with the energy assessment has been mixed. For a long time it lacked leadership and was drifting and it was only after Regional intervention that the management and timetable was firmed up. We now have a product which is essentially sound, but had little time for careful internal review and requires a good deal of presentational improvement before it is finalized. Because of past delays and a

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July 25, 1985

Government deadline when it wished to use this document for preparation of the Sixth Plan, we have been obliged to agree to release a draft document to the Government for discussions before the presentational issues have been taken into account and only after a perfunctory review. In retrospect, it might have been better if we could have been masters of our own fate for this task, particularly as we shall have to pick up the follow-up, as the leading authors are likely to move on to other tasks.

7. Proposal 2 - \$1 million from the Bank to fund ESMAP activities.

8. Comment - The main "beneficiary" in our Region of this program has been Indonesia. However, both Ann Hamilton and I feel that for our countries, investment, identification and preparation activities should be integrated with either the centrally managed project divisions or the regional project divisions. The case to maintain the ESMAP, if any, would have to be made by the other major beneficiaries.

ACole:vmk

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HERE

MR. LEO DENKYI, EXECUTIVE DIRECTOR, NATIONAL ENERGY BOARD,
MINISTRY OF FUEL AND POWER, ACCRA, GHANA. RE: ONGOING SURVEY FOR
THE ESMAP WOOD INDUSTRIES RESIDUES UTILIZATION STUDY. (AAA)
PLEASED TO HAVE RECEIVED THE FIRST SURVEY RESULTS COVERING
ASHANTI AND EASTERN REGIONS, AND LOOK FORWARD TO RECEIVING THE
SECOND SURVEY RESULTS AS SCHEDULED. (BBB) FINALIZED TERMS OF
REFERENCE FOR THE CONSULTANTS MESSRS. HAGAN AND BEN-DZAM HAVE
BEEN SENT TO YOU AND UNDP OFFICE ON JULY 8 VIA WORLD BANK
DIPLOMATIC POUCH. PLEASE CONFIRM THEIR RECEIPT AND PROVIDE
COPIES TO THE CONSULTANTS. BEST REGARDS, BERNARD MONTFORT,
CHIEF, ENERGY STRATEGY AND PREINVESTMENT DIVISION I, ENERGY
DEPARTMENT, WORLD BANK.

END
OF
TEXT

Telex

974- 2188

July 25, 1986

ESMAP:Wood Residues Utilization Study

JBoroumand:dap

75424

cc and cw: Mr. Matthew Mendis (EGYPA)

Masood Ahmed, Deputy Chief, EGYS1

Energy

SECT. 1 FOR USE OF CABLE SECTION

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OFFICE MEMORANDUM

NRIC

DATE: July 21, 1986

INT/83/005

TO: Mr. P. Moulin, EGYPA; S. Rivera, EGYS2

FROM: K. Saunders, Division Chief, EGYPA;
K. ~~Deane~~ Division Chief, EGYS2

EXTENSION: 72293/76894

SUBJECT: ESMAP: MEXICO - Technical Assistance for CNG Conversion Project
Terms of Reference for Reconnaissance Mission

1. You will travel to Mexico on July 28, for about a week to discuss possible technical assistance by ESMAP related to the proposed conversion to natural gas-CNG-of the bus fleet of Mexico City. Your main counterpart will be Mr. Lorenzo de Paul Manzanares from Autotransportes de Pasajeros R100.

2. In Mexico, your main tasks will be to:

- (a) collect and review all relevant economic-technical information on the project's status and merits, including how efficiently the use of CNG will reduce pollutants and lead to social/economic benefits from the reduced level of pollutants;
- (b) assess the institutional capability to run this type of program and maintain satisfactory performance and safety standards;
- (c) discuss the project's phases and ESMAP's possible role in the design and organization of the test program;
- (d) discuss scope of work of the projected CNG conversion program, its linkage with the ongoing Pollution Control Project financed by the Bank, and consideration given to energy pricing and substitute transportation modes;
- (e) meet all relevant agencies involved in pollution control projects i.e. Secretaria de Desarrollo Urbano y Ecologia (SEDUE), Fondo de Equipamiento Industrial (FONEI), Nacional Financiera S.A. (NAFINSA), Departamento del Distrito Federal (DDF), Secretaria de Salubridad y Asistencia Publica (SSA), R100 and other partners in the program, as well as representatives of the Secretaria de Hacienda y Credito Publico (SHCP); and
- (f) fully brief the UNDP representative on the mission's objectives and output.

3. On your return to Washington, you will prepare a back to office report summarizing your findings and recommendations for the next course of action, including the program's feasibility and merits, capacity of R100 to handle it and appropriate technical assistance required by R100.

cleared with and cc: Messrs. Julius Varallyay (LCIMX);
M. Del Buono, Gaskin (EGYS2)

Distribution

Messrs. Bottelier, Berger, Landau (LCI);
Linder, Schultz, Saadat, Moscote, Flora, Stout (LCP);
de Capitani (LNDDR);
Churchill, Hume, Bourcier, Iskander, Batzella, Khelil,
Byer, Montfort, Bates (EGY)
Harland, Rothermel/Cox (UNDP, New York);
Silva-Aranda (UNDP, Mexico City)

Ms. Augusto (LCIMX)

SRC

Phoulin/SRivera:pas

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INT 123/005

INTBAFRAD, OUAGADOUGOU, BURKINA. ATTN. RICHARD TRAORE, ECONOMIST.
REF. ENERGY STRATEGY FOR URBAN HOUSEHOLDS.
FOLLOWING MINPLAN'S REQUEST QUOTED IN ROGERSON'S TELEX OF JUNE 11
REGARDING THE ABOVE SUBJECT, WE ARE PLANNING A MISSION TO COMMENCE
THE ABOVE ACTIVITY AROUND OCTOBER-NOVEMBER 1986 IF COMPATIBLE WITH
GOVERNMENT'S SCHEDULE AT THAT TIME. SINCE THE SUBJECT OF THE
STUDY CUTS ACROSS THE DOMAIN OF MANY MINISTRIES, WE BELIEVE IT IS
IN THE INTEREST OF BURKINA TO FORM AN INTERMINISTERIAL COMMITTEE
(AAA) TO ACT AS THE INTERLOCUTOR AND HELP MANAGE THE STUDY ON THE
LOCAL SIDE, (BBB) TO IDENTIFY THE SPECIFIC OPERATIONAL ISSUES
NECESSARY FOR RESOLUTION, AND (CCC) ESTABLISH AN ACTION PROGRAM
FOR IMPLEMENTATION. ONLY WITH THIS COORDINATED EFFORT CAN WE
ASSURE RELEVANCE OF THE STUDY FOR POLICY MAKING. OF COURSE, IT
WOULD BE IDEAL IF SUCH COMMITTEE WAS ESTABLISHED PRIOR TO THE
MISSION, TO FACILITATE INTERACTION WITH EXECUTIVE AGENCIES ACTIVE
IN THE ENERGY FIELD. PLEASE CHECK WITH MINPLAN PROPOSED MISSION
TIMING AND FEASIBILITY OF CREATING A COORDINATING COMMITTEE. WE
WILL PREPARE LETTER TO MINISTER ON BASIS OF YOUR FEEDBACK. WITH
BEST REGARDS, MASOOD AHMED, ACTING DIVISION CHIEF, ENERGY STRATEGY
AND PREINVESTMENT I, WORLD BANK.

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INFORMATION BELOW NOT TO BE TRANSMITTED

CLASS OF SERVICE: **TELEX**

TELEX NO.:

6265

DATE: **07/18/86**

SUBJECT:

BURKINA HOUSEHOLD ENERGY

DRAFTED BY:

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EXTENSION:

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CLEARANCES AND COPY DISTRIBUTION:

Cleared with and cc: Mr. Dailly (WA1DA)
cc: Messrs. Montfort, Sherbiny,
Floor (EGYS1)

AUTHORIZED BY (Name and Signature):

MASOOD AHMED, ACTING CHIEF, EGYS1

DEPARTMENT:

ENERGY

SECTION BELOW FOR USE OF CABLE SECTION

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The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

July 15, 1986

Mr. Johan Brisman
Head of Infrastructure
Swedish International Development
Authority
Birger Jarlgatan 61
S 105 25 Stockholm
SWEDEN

Dear Mr. Brisman:

Let me thank you very much indeed for the cordial reception you gave me on my recent visit to Stockholm. I found our discussions to be both informative and productive and I believe that these periodic meetings between us are most worthwhile for furthering the cooperation between our two organizations.

I had promised to follow-up on a number of items. Some of these will have to depend upon further discussions within the Bank, which may take a little time, given the absence of key people on Summer vacations. However, with my own departure on Home Leave from July 18 for several weeks, I wanted to brief you as fully as I could at this stage.

1. Tanzania Fuelwood Project. Phase I will be financed by CIDA and should start in October. Phase II could proceed in May-June 1987. As I explained to you, Phase II costs will only be known after Phase I has been completed but they will probably be in the order of US\$200,000. I am proceeding on the assumption that SIDA has a strong interest in funding Phase II.
2. Tanzania Rural Industries Energy Efficiency. The Tobacco Efficiency project which you agreed to fund is being broadened in scope to include other rural industries such as brick-making, and we have changed the project title accordingly. I confirm that it will also look at the scope for solar crop drying in the tobacco industry. We are sending a reconnaissance mission to Tanzania in August. The mission will agree on the scope of the project with the government and prepare an Activity Initiation Brief (AIB). Apart from providing details on scope and staffing, the AIB will include a detailed costing of the project.
3. Secondment of Swedish Forester. We are obtaining a full costing of all costs for this position. As a preliminary and tentative guess, I think a salary of US\$52,000 p.a. plus other costs of some US\$80,000 (i.e., about US\$184,000 over a two-year period) gives a rough order of magnitude for the time being.
4. SADCC Household Energy Study. We are preparing an AIB for this project and we shall send it as soon as possible.

5. Laos Energy Assessment. Work is unlikely to be able to start until 1987 due to our staffing commitments but just as importantly, it will be necessary to get the full agreement of the government and our own country desk. We shall then need some reconnaissance work to identify the specific issues for inclusion (as in Angola). The cost will depend on the scope of work but as a rough estimate for the time being, I think a figure of US\$300,000 serves the purpose.

6. New Funding Agreement between SIDA and the Joint UNDP/IBRD Program. Again I welcome the proposals from your side for the negotiation of a new agreement between us. The project document we have been preparing internally for ESMAP as a whole is still under discussion between the Bank and UNDP and between my Department and other interested Departments, (e.g., Controllers and Legal) so that it would be premature to send you a copy, even as a draft. I hope we can put it into a sufficiently good form to send to you in the near future. However, I would say that on reflection, I think that a much simpler approach might be feasible in the present case, perhaps based on a short Letter of Agreement with attachments referring to specific activities. With regard to Swedish participation in ESMAP at large, I should like to bring to your attention the form of words used by the Netherlands Ministry of Foreign Affairs in a recent (June 9, 1986) Letter of Agreement in which Holland has increased its contribution to ESMAP by 1.5 million guilders. It states: "To the maximum extent possible - if sufficiently competitive in quality and price - Dutch expertise should be involved in the execution of the activities." You may wish to employ similar wording in any formal communication to us. I think that -- assuming a US\$2 million contribution from SIDA over two years -- it would be very difficult for us to reach a Swedish component in the aggregate program of, say, US\$1 million. From my preliminary investigations, the typical consultant assignment costs around \$20,000 (fees, travel, subsistence). As mentioned in Paragraph 3, the forester might account for US\$184,000 over two years in salary and other benefits or, say, US\$200,000 over two years, including travel and subsistence. To achieve a balance of US\$800,000 over two years implies therefore at least 40 consultant assignments, i.e. 20 per year. I think that a figure of ten consultant assignments per year is more realistic, although still, I fear, ambitious, given ESMAP's limited experience with Swedish consultants to date. On that basis, over the two-year period, we might achieve a Swedish component of US\$600,000 (US\$200,000 for the forester plus US\$400,000 for consultants, i.e. $2 \times 10 \times \text{US\$20,000}$), implying a ratio of 30% over the two-year period. I emphasize that these are my preliminary informal and strictly personal thoughts and calculations only but your reaction to them would be appreciated.

7. Zambia. We discussed the inclusion of work on Zambia in a new agreement between us. I attach a note covering the possibilities for other ESMAP work there.

Finally, please be informed that Mr. Richard Dosik, the Department's New Energy Sources Adviser, has been appointed Division Chief for the Energy Strategy and Preinvestment Division II with immediate effect, to replace Mr. Alberto de Capitani, who was promoted to the position of Assistant Director in the Industry Department effective from June 1. In my absence on Home Leave, please address any communications to Mr. Dosik. I expect to be back in the office on August 25.

Again, thank you for making my visit to Stockholm enjoyable as well as productive. I am sending an identical version of this letter to Mr. Holmberg.

My very best wishes,

A handwritten signature in black ink, appearing to read 'R. Bates', written in a cursive style.

Robin Bates
Deputy Chief, EGYS2

Enclosure

ESMAP: Zambia

Having completed an Energy Assessment Status Report in 1985 and an Energy Sector Institutional Review in the first half of 1986, the Bank is now considering a range of possibilities for further technical assistance to Zambia, which is one of SIDA's target countries.

The sharp changes in relative energy prices since the Energy Assessment mission in 1982 and Zambia's extreme foreign exchange shortage, coupled with its weak energy planning and analysis capability, suggest that a comprehensive energy sector strategy review is the top priority. This would provide a sound framework for future donor lending without which there is a danger that the current trickle of assistance will shrink further.

However, the Government has shown some initial reluctance to the idea. Consequently, some issue-specific technical assistance proposals have been developed under ESMAP as alternatives to the sector-wide project. The following notes summarize those proposals. SIDA's assessment of their relative priority and an indication of SIDA's potential interest in funding them is invited.

A. Urban Household Energy Strategy

Objective. Define a least-cost strategy for satisfying urban household energy needs, identify and bring to prefeasibility status justified projects and strengthen government capability to analyze household energy options.

Components. (i) survey of fuel use by representative households to establish pattern of energy demand by type of fuel and nature of use; (ii) estimation of economic and financial cost of alternative fuels (fuelwood, charcoal, electricity, kerosene, etc.); (iii) assessment of potential demand management options (improved stoves); and (iv) specification of justified demand & supply projects (e.g. fuelwood production, charcoal efficiency, improved stoves, power connections) and recommended policy actions.

Comments

Addresses largest and most neglected source of energy demand and puts scattered, small-scale local initiatives (stoves, kilns, etc.) into more comprehensive framework.

B. Transport Sector Energy Demand Management Program

Objective. Improve the efficiency of energy use in transport and ensure that correct price signals are being given to all commercial energy consumers.

Components. (i) analysis of economic efficiency of current fuel price and tax policy; (ii) review of barriers (if any) to efficient inter-modal choice of transport (import tariffs, quotas, etc.); (iii) analysis of conservation policy options (lower speed limits, etc.); (iv) review of large transport suppliers' energy efficiency performance and management systems; and (v) specification of recommended action program.

Comments

Addresses largest use of imported fuels and would have spin-off impact on overall energy efficiency through prices and tax analysis.

C. Power Sector Efficiency and Rehabilitation Audit

Objective. Identify justified investments and operational improvements that would lead to more reliable and less costly power supply and improve ZESCO's cash flow.

Components. (i) analysis of size, economic and financial cost of technical and non-technical power losses and power supply interruptions; (ii) identification and analysis of options for improving the efficiency and reliability of power supply; and (iii) definition and costing of a justified program of rehabilitation and reinforcement investments and improvements in power system operating procedure.

Comments

Focuses an important but neglected component of energy supply system.

D. Industrial and Mining Energy Conservation/Substitution Options

Objective. Identify and bring to prefeasibility status justified investments in industrial and mining energy conservation and substitution, building on preliminary analyses by the Zambian Department of Energy.

Components. (i) analysis of public energy policy (pricing, tax policy, tariffs, investment incentives, publicity, technical assistance, etc.) to encourage efficient energy selection and use; (ii) estimation of the current and prospective economic and financial costs of alternative energy supplies; and (iii) on the basis of those costs, and building on existing analysis of conservation and substitution options, identification and prefeasibility analysis of justified conservation and substitution projects.

Comments

Addresses key issue of potential for efficient conservation/substitution of imported energy which initial government analysis suggests is significant.

bcc: Messrs. Hume, Dosik, Montfort, Ahmed, Broadfield (EGY)

Ms. Kiwana, Sharkey, Hristodoulakis, Owen (EGY)

OFFICE MEMORANDUM

NRIC

INT/83/005

DATE: July 11, 1986**TO:** Ms. Connie Bernard, LC2VC**FROM:** Christopher R. Poncia, EGYS2 *CRP***EXTENSION:** 7-5284**SUBJECT:** JAMAICA - Energy Assessment Supplemental Report
and ESMAP Program

1. I received a call on Wednesday, July 9 from Ms. Clarke, on behalf of Mr. Kirton, P.S., Ministry of Energy.
2. As regards the Supplemental Report on Petroleum Procurement, Refining and Distribution, the Ministry requests a Bank mission to discuss the Report with Ministry and PCJ officials (see Ms. Clark's telex attached). Since Mr. Saunders will be away most of August, MWEM proposes the week beginning August 25. Messrs. Nayar, Hunter and myself would all be available at that time.
3. As regards the ESMAP program, I referred to Mr. Gulstone's discussion on the cogeneration component with Mr. Cox, JPS, last week (his BTOR to be issued shortly), and suggested that we should review this, together with the other ESMAP program components (forestry assessment/conservation/MIS/possible follow assistance to the Supplemental Report) after the Supplemental Report review, i.e., in the week beginning September 1. Ms. Clarke agreed to propose this to Mr. Kirton. Mr. Nigel Grant, Director of Planning in the Energy Division is still away in the U.S. and his return date to Jamaica is not sure but Messrs. Morgan, Gulstone and Gaskin all expect to be available in that week. (I will check with Mr. Beattie on his return).
4. Ms. Demers of CIDA subsequently called me to enquire the present position, which I told her as above. She is going to Jamaica on September 8-12, and I suggest that she join us in a final review meeting with Government on, say, September 8.
5. If this is agreeable to you, may I suggest that you should respond to Ms. Clarke to confirm the proposed meeting.

Attachment

Cl. w&cc: Mr. R. Bates (EGYS2)

cc: Messrs. Morgan o/r (PPDES) Beattie o/r (LCPAB), Hume o/r (EGYPS)
Iskander, Nayar (EGYD2), Dosik, Gaskin, Gulstone (EGYS2)
Larrieu (LCPEN)

CRPoncia:cah

Date Received: 7/10/86Project Name: Jamaica - AssessmentProject Officer: ① Poncia② Schmidtje/Bate③ Drisk ④ file

Date Action Taken: _____

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JULY 9, 1986.

VIA TRI

197688 WORLDDBKMUT - (WASHINGTON)

LY 9, 1986

TO: MR. C. R. PONCIA
ENERGY PLANNER
ENERGY POLICY AND STRATEGY STAFF
ENERGY DEPARTMENT
VENEZUELA AND CARIBBEAN DIVISION
WORLD BANK

THIS CONFIRMS OUR TELEPHONE CONVERSATION (PONCIA/CLARKE)
TODAY WHEN I ADVISED YOU THAT THE MINISTRY OF MINING,
ENERGY AND TOURISM WISHES TO HAVE AN OPPORTUNITY TO
DISCUSS WITH YOU THE WORLD BANK'S SUPPLEMENTAL REPORT
TO "JAMAICA: ISSUES AND OPTIONS IN THE ENERGY SECTOR."
WEEK BEGINNING MONDAY, AUGUST 25, 1986 WILL BE
CONVENIENT FOR MEETINGS AND DISCUSSION ON ESMAP WILL
FOLLOW.

KIND REGARDS.

BEULAH CLARKE (MISS)
FOR PERMANENT SECRETARY
MINISTRY OF MINING, ENERGY AND TOURISM.

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Record Removal Notice

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File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
Document Date July 11, 1986	Document Type Letter			
Correspondents / Participants To: Barbara Karpinsky, CIDA, Canada From: Turid Sato, Acting Chief, Latin America & Caribbean Programs Department				
Subject / Title Institutional Evaluation for Energy Sector in Colombia				
Exception(s) Financial Information iv				
Additional Comments		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Kim Brenner-Delp</td><td>Date November 02, 2022</td></tr></table>	Withdrawn by Kim Brenner-Delp	Date November 02, 2022
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Record Removal Notice

File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
Document Date July 10, 1986	Document Type Telex			
Correspondents / Participants To: Yoon Yul Kim, UNDP Resident Representative From: Margaret Walsh and Herb Langer, Acting Chief UNDP Trust Funds				
Subject / Title [Authorization of payment to consultants]				
Exception(s) Personal Information				
Additional Comments		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Kim Brenner-Delp</td><td>Date November 02, 2022</td></tr></table>	Withdrawn by Kim Brenner-Delp	Date November 02, 2022
Withdrawn by Kim Brenner-Delp	Date November 02, 2022			

INT/43/005-

July 9, 86

OFFICE MEMORANDUM

DATE: July 9, 1986

TO: Masood Ahmed, Deputy Division Chief, EGYSL

FROM: Matthew Mendis, EGYPA and Jahangir Boroumand, EGYSL

SUBJECT: Ghana: Wood Industries Residues Utilization Study --
Initiation Mission Back-to-Office Report

1. In accordance with our Terms of Reference dated May 28, 1986, we arrived in Accra on May 31 to (a) discuss the Government's comments on the project's Activity Initiation Brief; (b) hire local consultants for the project; and (c) initiate the survey phase of the project. The mission was well received by the Government through the counterpart agency, the National Energy Board of Ghana (NEB), and was able to reach agreement with the Government on all the administrative and logistical supports required for the work of the main mission. The key points of agreement with the Government are reflected in an aide memoire, a copy of which is attached. In addition, field observations and preliminary data collected during the mission have resulted in further clarification of the scope of the project as discussed below. The mission also met other government and international agencies officials (see attached list), and had a particularly useful meeting with Mr. Appiah-Korang, the PNDC Secretary of Fuel and Power, during which he emphasized his government's strong support for the project.

Hiring of Local Consultants

2. At the request of the NEB, the mission considered extending the role of the local consultants to include not only a survey of the supply and demand of wood residues and patterns of energy use in the wood processing regions, but also a preliminary analysis of the results of their survey in order to assist in focusing the field work of the main mission. Since capable local consultants were available, the mission agreed to the extended role for the local consultants. As a result, the local consultants were hired for 10 weeks rather than the 3 weeks originally proposed.

3. Two local consultants, Messrs. Benjamin Hagan and Martin Ben-Dzam of Ru-Tek Consultants, were selected from a short list provided by the NEB. They were fully briefed on the requirements of their assignments and were provided with detailed draft terms of reference. Their finalized TOR's have been sent to them, copies of which are attached.

Initiation and Monitoring of the Survey Work

4. The local consultants started the survey phase of the project under the mission's supervision on June 9, 1986. A number of facilities were jointly visited while the mission was in the field, and question-

naires were developed and finalized for use in the survey work. The consultants will carry out the detailed survey work on a regional basis according to an agreed schedule which requires reporting their results periodically on July 4, July 25 and August 15. Their final analysis and report is due at the World Bank Resident Representative's office by August 15. NEB will be monitoring the progress of the consultants' work during the coming weeks and will report on its findings to the Bank.

Mission Schedule

5. It was agreed with the NEB that the field work by the main mission would start in mid to late September and require approximately three weeks to complete. The scheduling of the main mission is based on the time required for the local consultants to complete their assignments and for the main mission to receive and review the consultants' report prior to visiting Ghana. The local consultant's report is due in Washington in late August.

Meetings with UNDP and Canadian High Commission Officials

6. The mission met with the UNDP Deputy Resident Representative, Mr. Glovinsky and informed him of the mission's progress. In a subsequent meeting with the Project Officer in charge, arrangements were made for the UNDP office to proceed with hiring of the local consultants.

7. The mission also met with the First Secretary of the Canadian High Commission, Mr. Bowes. It was learned that the High Commission had not received the letter from the Ghanaian Government requesting release of CIDA funds for the project. A copy of this letter had been received by the Bank prior to the mission's departure for Ghana. The NEB was informed and subsequently a photocopy of the letter was delivered to the Canadian High Commission with assurances from NEB that the original will be sent promptly.

Scope of the project

8. Field observations and preliminary data collected during this reconnaissance mission indicate that almost all of the solid wood residues (bark, off-cuts, slabs, etc.) produced in the major wood processing regions of Kumasi, Takoradi, and Akin-Oda are currently being utilized. The solid wood residues are made into charcoal, burned as firewood, or used to make wood products in local workshops. However, very little of the sawdust, which amounts to about 15% of the volume of the wood processed, is currently being utilized. Some sawdust is used as a boiler fuel along with wood off-cuts in the wood processing industries that require process heat. In Kumasi, some sawmills are paying to have surplus sawdust removed from their premises or are burning it in open piles, significantly aggravating ambient pollutant levels. At the same time, one of the two breweries in Kumasi is in the process of installing a fuel oil boiler to replace its electric boiler. To date, the brewery owner has not seriously considered the option of using sawdust instead of

fuel oil, due to lack of information on available biomass combustion systems and their potential economic benefits.

9. Given the current situation, the main mission will need to focus on possible means for increasing the use of sawdust. This must include options such as direct use of the sawdust in the nearby industries, and making briquets for the distant domestic and/or export markets. Most major industries in Ghana are located in the Accra-Tema area which is between 100 to 200 miles from the major wood processing regions of the country. Therefore, the survey being conducted by the local consultants will be used to first assess the potential markets for sawdust in the vicinity of the wood processing industries. A pilot sawdust briquetting plant at Akim-Oda has been in operation for the past few months and was visited by the mission. The plant has a small capacity of about 300 kg/hr and the owner has been trying to promote the sawdust briquets in Accra by selling them at discount prices. He is also looking for export markets. The main mission should closely evaluate this operation to determine the financial and economic attractiveness of briquet production in Ghana and the acceptability of sawdust briquets as a fuel.

10. The main mission should also evaluate the current means of charcoal production in wood processing areas to improve utilization of solid wood residues. The current practice is to carbonize the solid wood residues by using the traditional earthen kiln method resulting in conversion efficiencies of less than 15% by weight. The possibility of substantially improving the efficiency of charcoal making operations by introducing simple metal or brick beehive kilns, which are particularly suitable for stationary charcoal making operations, should be evaluated by the main mission.

11. The availability of cheap hydroelectricity from the national power grid has been a major factor influencing the location of wood processing industries in Ghana. At present, most of the wood industries are connected to the national grid or are being actively considered for such connections. The only wood processing regions of the country where ECG still provides diesel generated power to the sawmills and the local population are the Brong-Ahafo and part of the Central regions. The extension of the national power grid through the Brong-Ahafo region, which was recently appraised by the Bank, could provide hydro generated electricity to most of the sawmills in that region by 1989. The picture that emerges from our preliminary data and field observation shows clustering of most wood processing industries around urban centers (e.g. Kumasi, Takoradi) that are already connected to the national power grid. Subsequently, most of the wood residues produced are not utilized for energy by these wood processing industries but their solid wood residues are being utilized by the surrounding urban population. The preliminary data available to the mission also indicates that only the larger facilities such as MIM, AT&P, and GWA, which are not near the electrified urban centers, use diesel for power generation to either partially or fully meet their electricity requirements. Thus, these

facilities would be prime candidates for increasing the use of their residues.

12. The economics of generating electricity from wood residues is not favorable when compared to the relatively low cost of hydroelectricity from the national grid. The main mission will need to focus on the larger wood processing facilities in Ghana to evaluate the economics of diesel power generation, co-generation with wood residues, or hydroelectric power from the national grid when connection costs are included. The MIM sawmill in the Brong-Ahafo region, one of the largest in Ghana, is a case in point. The proposed connection of Mim to the national grid is estimated to cost \$2.5 million and is scheduled for 1989. Another case in point is the GWA facility which is apparently to be connected to the national grid within a few months. At present there are no known plans for connecting AT&P which is far from the existing transmission lines.

13. Detailed information on energy sources and requirements for the wood processing industries will become available through the surveys presently being conducted by the local consultants. This information will be used to further focus the efforts of the main mission in evaluating the various options for supplying power, including the potential for co-generation, at the large wood processing facilities.

Follow-up Actions

14. The following tasks need to be done before initiating the main mission to Ghana: (a) preparation of terms of reference for the expert consultants; (b) selection and hiring of qualified consultants; (c) monitoring of the progress of the local consultants; and (d) review and synthesis of data in the local consultants' final report.

Attachment

Distribution:

Messrs: O'Brien (WANVP); Isenman (WAl);
Reese, Berk, Lateef, Ijichi, Upadhyay (WAlDB);
Eccles, Bouhaouala, Thoolen, Bauer, Walton, Soto, T. Husain (WAP)
Wanatabe (OED); Richardson (CDD); Spears (AGRP1); Barnum (PHND1);
Bennathan (TRP); Kuczyński (CADEU); Weissman (EISVP);
de Capitani, Kohli, Sood, Goldberg, Rowat, Stern (IND);
Churchill, Bourcier, Hume, Sadove, Saunders, Kalim, Fish, Heron,
Green, Iskander, Dosik, Montfort, Richter, Bates, Ferroukhi (EGY).
Harland, Rothermel, Cox (UNDP, New York)

Mmes: Haug, Mitchell (WAP); Johansen (TRP); Jones (WAlDB).

EGYS1 Higher-Level Staff

JBoroumand:dap

LIST OF OFFICIALS MET

Ministry of Fuel and Power

Mr. Appiah-Korang, PNDC Secretary of Fuel and Power
Mr. Leo Denkyi, Executive Director, National Energy Board
Mr. Donald Tarnawiecki, Chief Technical Advisor, National Energy Board

Ministry of Land and Natural Resources

Mr. Ohene-Kena, PNDC Undersecretary of Land and Natural Resources
Mr. Birikorang, Chief Technical Director
Mr. G. Akoba, Assistant Technical Director

Electricity Corporation of Ghana

Mr. Opong, Director of Engineering
Mr. Addae-Kondu, Commercial Director
Mr. Mensah, Regional Director, Oda

International Agencies

Mr. Cam Bowes, First Secretary, Canadian High Commission
Mr. Steven Glovinsky, Deputy Resident Representative, UNDP
Mr. Angelo Capalbo, Project Officer, UNDP
Mr. S. H. Choi, World Bank Resident Representative
Mr. R. K. Sharma, Deputy Resident Representative

National Investment Bank

Dr. Denis Alder, Loan Officer, Ghana Export Rehabilitation Project,
Timber Sector

Wood Processing and Other Industries

Mr. Chaowus, Director, Chaowus Briquetting Plant, Akin-Oda
Mr. Imad Berbari, Director, Specialized Timber Products, Ltd.
Mr. Hans Loertscher, General Manager, Bibiani Logging and Lumber Co. Ltd.
Mr. Henry Atiase, Director, Guinness Brewery Ghana, Ltd.



Record Removal Notice

File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
Document Date [July 1986]	Document Type Report			
Correspondents / Participants n/a				
Subject / Title Aide memoire - Ghana - ESMAP Wood Processing Industries Residues Utilization Study				
Exception(s) Personal Information				
Additional Comments		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Kim Brenner-Delp</td><td>Date November 02, 2022</td></tr></table>	Withdrawn by Kim Brenner-Delp	Date November 02, 2022
Withdrawn by Kim Brenner-Delp	Date November 02, 2022			

OFFICE MEMORANDUM

DATE: July 1, 1986

TO: Mr. Martin Ben-Dzam, Consultant

FROM: Masood Ahmed, Deputy Division Chief, EGYS1

SUBJECT: ESMAP: GHANA: Wood Industries Residues Utilization Study --
Terms of Reference

1. In accordance with your letter of appointment as a consultant you will participate in the above project by: (a) conducting a survey of wood processing industries in Ghana between June 9 and August 15, 1986; and (b) periodically joining the main study team during its field work in September to discuss your survey results and to assist in the fieldwork. These terms of reference detail the scope of your responsibilities. They supplement the verbal guidance and finalize the terms of reference given to you by the mission leader, Mr. Matthew Mendis, during his meeting with you in Accra in early June.

2. Your primary responsibility will be to compile available data on the location, capacity, operating profile, energy requirements and waste wood production of all the wood processing industries in Ghana. You should conduct the survey using the questionnaire form mutually agreed upon with Mr. Jahangir Boroumand during his visit to Ghana in early June. You are to work in conjunction with Mr. Essel Benjamin Hagan to incorporate the results of your survey in a final report to be submitted to the Bank. The details of your responsibilities are presented below.

I. THE SURVEY WORK

3. The general purpose and scope of the survey are described in paragraphs 2.1 and 2.2 of the Activity Initiation Brief (AIB) of the above project, a copy of which has been provided to you for your general information.

4. You should compile a list of all sawmill/wood processing facilities in Ghana and, for each facility, obtain at least the following information:

Plant Data

- (i) Full name and location/address (including region, nearest town, and the access road) of each wood processing facility.
- (ii) Type of facilities: milling operation -- plywood or veneer production, furniture work, etc.

- (iii) The maximum production capacity of the facility.
- (iv) Quantity (volume, weight, etc.) of wood processed in 1985 and expected production for 1986.
- (v) Quantity of each output actually produced (lumber, plywood, veneer, woodwork, etc.) in 1985 and expected in 1986.
- (vi) Annual operating period of the facility.

5. Based on the above information you should select a sample of facilities in each processing region for which you should obtain more detailed information on wood residue production and plant energy requirements. The facilities sampled should include all large scale wood processing facilities with capacity of more than 10,000 m³/year as well as a representative population of medium (5,000 to 10,000 m³/year) and small (less than 5,000 m³/year) scale facilities.

(a) Plant Residue Production/Use/Disposal

- (i) Total quantity of wood residues produced in 1985 and expected in 1986 for each facility surveyed.
- (ii) Types of wood residues produced (i.e., sawdust, bark, off-cuts, shavings, sanderdust, etc.) and their quantities, if available, at each facility surveyed.
- (iii) Estimates of the type and amount of residues used by the facility for its energy requirements.
- (iv) Estimates of the type and amount of residues sold commercially and/or given away to others for consumption. For residues sold commercially, indicate type of buyer and price at which sold.

(b) Plant Energy Requirements

- (i) Total annual electricity consumption (kWh/yr), peak demand (kW) and average demand (kW).
- (ii) Sources of electricity indicating if purchased from ECG local grid, national grid or if generated on site.
- (iii) For electricity purchased from the grid indicate the unit costs (¢/kWh) plus demand charge (¢/kW). Also indicate if any special power purchase agreements are in effect.
- (iv) For electricity generated on-site, indicate the method of power generation (i.e., diesel set or steam turbine). Also obtain the price paid for the raw fuel (¢/l) and the quantities of fuels used annually for power generation.

- (v) List the total installed capacity of all power generating equipment that is located on-site and indicate the utilization factors associated with this equipment.
- (vi) List the total thermal (i.e., steam or direct heat) requirements of the plant including peak and average demand.
- (vii) Provide the basic specification of all thermal generating equipment (boiler) including number of units, capacity, type, and fuel requirements, etc.
- (viii) Indicate if any co-generation of power and heat occurs at this facility.

II. REPORT PREPARATION

6. You will tabulate and briefly analyze the data you have collected through the survey to identify major issues and areas that the Bank's project team should focus on to improve the utilization of residues from wood processing industries. For example, opportunities for wood fired power generation in the larger wood processing plants. You are to compile your survey data on a region by region basis, and submit both data (i.e., completed questionnaires) and analysis to the NEB in Accra for transmittal to the Bank according to the following schedule: first submission on July 4 covering Ashanti and Eastern Regions; second submission on July 25 covering Western and Central Regions; third submission on August 15 covering Brong Ahafo Region.

7. You will coordinate with Mr. Hagan to prepare a draft final report by August 8. You will discuss this draft report with NEB and incorporate their comments for submission of a final report to the Bank. Your final report is to be submitted no later than August 15, 1986 to the world Bank's Resident Representative in Accra.

III OTHER ASSIGNMENT

You shall join the rest of the project's team during its field work in Ghana in September to:

- (a) discuss your survey results and assist in its analysis; and
- (b) collect additional information as requested.

Cleared with and cc: Messrs. Mendis (EGYPA) and Upadhyay (WAlDB).

cc: Messrs. Eccles (WAP); Berk, Lateef (WAlDB);
Bauer, Mathrani (WAPAG); Hindle, Hvidberg-Hansen (WAPAB);
Montfort, Richter (EGYS1).

JBoroumand:jb

OFFICE MEMORANDUM

DATE: July 1, 1986

TO: Essel Benjamin Hagan, Jr., Consultant

FROM: Masood Ahmed, Deputy Division Chief, EGYS1

SUBJECT: ESMAP: GHANA: Wood Industries Residues Utilization Study --
Terms of Reference

1. In accordance with your letter of appointment as consultant you will participate in the above project by: (a) conducting a survey of energy use patterns in the wood processing areas of Ghana between June 9 and August 15, 1986; and (b) periodically joining the main study team during its field work in September to discuss your survey results and to assist in the field work. These terms of reference detail the scope of your responsibilities. They supplement the verbal guidance and finalize the terms of reference given to you by the mission leader, Mr. Matthew Mendis, during his meeting with you in Accra in early June.

2. Your primary responsibility will be to compile available data on the pattern of energy use in all non wood processing industries, commercial and public enterprises, and households located in the vicinity of the main wood processing areas of Ghana. In addition, you will have the primary responsibility of coordinating the results of the wood processing industries survey, being conducted by Mr. Martin Ben-Dzam, into a final report to be submitted to the Bank. You should conduct the survey using the questionnaire form mutually agreed upon with Mr. Jahangir Boroumand during his visit to Ghana in early June. The details of your responsibilities are presented below.

I. THE SURVEY WORK

3. The general purpose and scope of the survey are described in paragraphs 2.1 and 2.2 of the Activity Initiation Brief (AIB) of the above project, a copy of which has been provided to you for your general information.

4. You should identify and put together a list of all major energy consuming industries (e.g., brick factory, etc.), and commercial enterprises (e.g., restaurants, bakery, etc.) which are located within 50 kilometers of the main wood processing centers and use process heat (cooking, drying, etc.) in their operations. For each item on the list you should provide the following information:

(a) Full name and exact location/address.

(b) State if fully operational in 1985 & 1986.

- (c) Type of operation and quantity of output per year.
- (d) Type and quantity of energy consumed per year (biomass fuel, petroleum products, electricity).
- (e) Type and capacity/rating of the energy using apparatus/equipments/processes.
- (f) Source and cost of fuel (where purchased and how much per unit).
- (g) Availability of petroleum products (gasoline, diesel oil, fuel oil, LPG) and biomass fuels (wood, charcoal) and their actual retail price in the area.

5. Through a representative sample survey of households within a 50 kilometer radius of wood processing centers you should provide an assessment of:

- (a) type and quantity of fuel typically used by households (wood, charcoal, kerosene, LPG, electricity); and
- (b) source of fuel (purchased, collected by household members, etc.) and price paid, if any.

II. REPORT PREPARATION

6. You will tabulate and briefly analyze the data you have collected through the survey to identify major issues and items of interest for which the Bank's project team should focus on to improve the utilization of residues from wood processing industries. For example, opportunities for wood residue/fuel oil substitution in industrial boilers and kilns. You are to compile your survey data on a region by region basis, and submit both data (i.e., completed questionnaire) and analysis to the NEB in Accra for transmittal to the Bank according to the following schedule: first submission on July 4 covering Ashanti and Eastern Regions; second submission on July 25 covering Western and Central Regions; third submission on August 15 covering Brong Ahafo Region.

7. You will prepare a draft final report that incorporates the inputs of Mr. Ben-Dzam by August 8. You will discuss this draft report with NEB and incorporate their comments for submission of a final report to the Bank. Your final report is to be submitted no later than August 15, 1986, to the World Bank's Resident Representative in Accra.

III. OTHER ASSIGNMENTS

8. You shall join the rest of the projects team during its field work in Ghana in September to:

- (a) discuss your survey results and assist in its analysis;
and
- (b) collect additional information as requested.

Cleared with and cc: Messrs. Mendis (EGYPA) and Upadhyay (WA1DB).

cc: Messrs. Eccles (WAP); Berk, Lateef (WA1);
Bauer, Mathrani (WAPEG); Hindle, Hvidberg-Hansen (WAPAB);
Montfort, Richter (EGYS1).

JBoroumand:jb

OFFICE MEMORANDUM

INT/83/005

DATE: July 9, 1986

TO: Mr. David Reese, Division Chief, WALDB

FROM: Masood Ahmed, Deputy Division Chief, EGYS1

EXTENSION: 73996



SUBJECT: ESMAP: LIBERIA - Power System Efficiency Study

1. Attached please find a copy of the Green Cover Report Liberia: Power System Efficiency Study, which has been cleared by Stephen Eccles (WAPDR) on behalf of the West Africa region, for distribution to the Government. Also attached is a transmittal letter for your signature.

2. Following your signature, we will arrange for the dispatch of these reports to Monrovia and for their internal distribution within the Bank. Please call me if you have any comments.

Attachments

MBBachrach:tla

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address INTBAFRAD
Cable Address INDEVAS

July 9, 1986

The Honorable Emanuel Gardiner
Minister of Planning and Economic Affairs
Ministry of Planning and Economic Affairs
Monrovia, Liberia

Dear Minister Gardiner,

We are pleased to enclose for your review and comments six (6) copies of the draft report of our power efficiency mission which visited Liberia in June 1985 to review the operation of the Liberia Electricity Corporation.

The report emphasizes that major institutional reform and full autonomy are urgent to arrest the deterioration of LEC's finances and quality of service. These are also preconditions to ensure long-term benefits from any corrective action taken to improve LEC's efficiency. The report also defines some of the technical and organizational changes needed along with estimates of their cost.

After you and your colleagues have had an opportunity to review the report, we would be ready to send a mission to Liberia to discuss the report and its follow-up and to obtain your comments for incorporation in the final version of this study. In view of their interest in these matters, we are also sending copies of this report to LEC and the Resident Representative of the UNDP in Monrovia. If you require additional copies, these can be obtained from Mr. Kendall's office.

Thank you for your support in this work and we again express our sincere appreciation for the assistance and openness of LEC's management, without which this work would have been impossible.

Sincerely,

David G. Reese
Division Chief
West Africa Division 1
Country Programs Department 1

Cleared with and cc: Mr. M. Ahmed (EGYS2)

cc: Messrs. Bauer, Davis, Menezes, Mena, Chaparro, Park (WAP);
Aggarwal, Berk, L. Ramirez (WAL);
Hume, Bates (EGY)
J. C. Kendall (IBRD Res. Rep., Liberia)

MBBachrach:tla

THE WORLD BANK / INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

NRIC

INT/83/005

DATE: July 8, 1986

TO: Files

FROM: ^{SRC} Salvador Rivera, EGYS2

EXTENSION: 74689

SUBJECT: ESMAP: MEXICO - Technical Assistance For Compressed
Natural Gas (CNG) Project

1. A meeting was held on July 1 to discuss the scope of the work and organization of the above project. The meeting was attended by Messrs. P. Bottelier, J. Varallyay (LC1MX); O. Saadat (LCPI2); P. Moulin (EGYPA) and myself.

2. Scope of the work. The meeting agreed that this activity will be divided in three phases, namely: i) a first phase which - if considered worth to pursue it after the reconnaissance mission on July 28 - will be aimed at designing and implementing a test program to equip and run a determined number of buses with the dual CNG/diesel oil modes. It is expected that ESMAP assistance and funds will be provided to procure needed services and possibly selected equipment; ii) a 2nd phase aimed at monitoring and interpreting the results of 1st phase. It was agreed that funds from the Pollution Control Project (Loan 2154 ME) could be utilized for this phase once it has been agreed by the loan beneficiary; and iii) a 3rd phase, which if phase I and II prove positive, will involve the preparation and implementation of a full scale project through appropriate Bank/IFC instruments.

3. Organization of Activity. A reconnaissance mission with staff from EGYS2/PA will take place on July 28 - 31. Programs will notify the Ministry of Finance about the mission's objective and timing; the mission's TORs will reflect the scope of the work above mentioned. It was agreed that for operational purposes, and since this activity should proceed along the CAM process, LCPI2 will allocate required CAM resources from their allocation on LN 2154 ME to EGYS2/PA staff to supervise the 2nd phase.

cleared & cc by: P. Moulin (EGYPA)

J. Varallyay (LC1MX)

J. Page (LCPI2)

cc: P. Bottelier (LC1MX), O. Saadat (LCPI2);

Hume, Saunders, Byer, Dosik, Bates, Del Buono (EGY)

SRivera:pas

SRC

OFFICE MEMORANDUM

DATE: July 3, 1986

INT/83/005

1/3

TO: Mr. W. Floor and Ms. J. Shanberge, EGYS1

FROM: Jean-François Bauer, Chief, WAPEG

SUBJECT: Re Your Back-to-Office Report dated June 27, 1986

I read with interest this document and want to congratulate you on the good work done in Niger. The analysis of LPG and kerosene supply is, however, not convincing. We need a better understanding of SONIDEP's role as well as that of private suppliers. I would also like to discuss, at your convenience, the staffing problems plaguing the Industrial Energy Conservation Project in Senegal.

cc: Messrs. Montfort (EGYS1), Menezes (o/r), Ouahes (o/r) (WAPEG)

JFBauer:mc

THE WORLD BANK INTERNATIONAL FINANCE CORPORATION
OFFICE MEMORANDUM

INT/83/005-

DATE: July 3, 1986

TO: Mr. Abderraouf Bouhaouala, Assistant Director, WAP

THROUGH: Mr. Bernard Montfort, Acting Assistant Director, EGYPS

FROM: Masood Ahmed, Acting Division Chief, EGYS1

SUBJECT: WEST AFRICA: Energy Sector Work and ESMAP:
Quarterly Status Report

1. Attached please find for your review and comments a copy of the current version of the above report which outlines the status, as of July 1, 1986, of the Energy Sector Work and ESMAP activities being managed by EGYS1 for the West Africa Region. The main developments that have taken place during the last quarter are summarized below.

2. ESW. The agreed FY86 ESW Program has been implemented without any major issue. During the last quarter, two energy assessment reports (Ghana and Guinea) have been produced and processed to green cover; both are scheduled to be discussed with the Government in the coming quarter prior to being issued in final form. One other assessment mission (Congo) has returned from the field and its white cover draft is expected in August. For Gabon, a reconnaissance mission has had extensive discussions with the Government on the scope and timing of the proposed assessment; these have been set out in a pre-mission issues paper which has been reviewed within the Bank and which proposes a main mission for October 1986. For both Congo and Gabon, we intend to produce assessment reports that are considerably shorter (30-50 pages) and structured around the key issues with the bulk of the descriptive material on the sector recorded in annexes which would be available upon request.

3. ESMAP. During the last quarter two brief activity completion reports have been issued recording the assistance provided under ESMAP to the Government of Senegal in connection with the preparation for the 1985 Energy Sector Donors Meeting and to the Government of Togo in regard to the optimal use of wood waste arising from the Nangbeto hydro project. Also during the last quarter, the Liberia Power Efficiency Study has been sent to the Government for review in green cover; the Ivory Coast Power Efficiency Study has been circulated for working level review in white cover; and limited work on power system losses has been initiated in Togo and Benin. Work has also started on the Sawmill Residue Utilization Study in Ghana (a reconnaissance mission has just returned) and on the UNSO supported household energy substitution project on Niger. We are ready to meet with you to respond to any comments or queries you might have.

Attachment

cc: Messrs. O'Brien, Knotter (WANVP);
Alisbah, Eccles, Husain, Bauer, Davis, Menezes (WAP);
Koch-Weiser, Humphrey, Reese, Hinkle, Isenman (WAI);
Serageldin, Hablutzel, Skillings, Landell-Mills,
Merghoub, Palein (WA2).

Ms. Haug (WAP).
Standard Status Report Distribution

MAhmed:hm

QUARTERLY WORK PROGRAMME AND STATUS REPORT

WEST AFRICA REGION

JULY 1, 1986

Energy Strategy and Preinvestment Division I
Energy Department

ENERGY ASSESSMENTS AND OTHER SECTOR WORK

Work Program for West Africa

COUNTRY	ACTIVITY	PRINCIPAL STAFF INVOLVED			STAGE COMPLETED	FY87												COMMENTS ON MAJOR CHANGES SINCE LAST REPORT
		EGYD	PROJECTS	PROGRAMS		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR				
A. ENERGY ASSESSMENTS																		
CONGO		*Ferroukhi Craig Perine	Mathrani Ouahes	Chevallier	(5)	6		7	8	9		10						
GABON		*Ferroukhi Perine		Kranjee	(1)				4		5	6		7				
GHANA		*Richter Boroumand Grut	Mena Mathrani	Lateef	(8)		9		10									
GUINEA		*Decaux Russell (con.) Shanberge	Mikhail Sneddon	Cadario	(8)	9		10										
MALI		*Richter	Sneddon	Ahlens	(1)													Main assessment postponed to FY88 for lack of CAM resources. Initiation of activity during FY87 under discussion.
SIERRA LEONE		*Ferroukhi Aleem	Mena Nayyar	Upadhyay	(5)		6	7		8	9		10					
B. OTHER SECTOR WORK																		
BURKINA	Energy Strategy Paper	*Craig	Sneddon	Dailly	(5)	7												Paper will be brief memo noting current status of Bank and ESMAP energy activities in Burkina.
MAURITANIA	Preparation of Structural Adjustment Credit	Richter		Vaurs	(4)													Contribution to SAC President's Report to be completed by early August 1986.
NIGERIA	Household Energy Study	Aleem			(1)													This task has now been dropped because the expected CAM funding has not materialized.
	Energy Sector Update	Aleem	Klein		(-)													Task to be basically a desk study with possibly one short visit to Nigeria in conjunction with EGYD.
SENEGAL	Household Energy Strategy Study	Floor/ Littmann			(3)													Field work tentatively scheduled for September 1986 at Government's request.

* Mission Leader
Assessment Report Stages (Only some of these stages may be applicable to other sector work)

- | | | |
|-----------------------------|------------------------------|-------------------------------|
| 1. Desk Study | 5. Post Mission Issues Paper | 9. Discussion with Government |
| 2. Reconnaissance | 6. White Cover | 10. Blue Cover |
| 3. Pre-Mission Issues Paper | 7. Yellow Cover | |
| 4. Mission | 8. Green Cover | |

ASSESSMENTS COMPLETED

Benin	06/85
Burkina	01/86
Cote d'Ivoire	08/84
Gambia	11/83
Guinea-Bissau	08/84
Ivory Coast	04/85
Liberia	12/84
Mauritania	04/85
Niger	05/84
Niger-Strategy Paper	02/86
Nigeria	08/83
San Tome & Principe	10/85
Senegal	07/83
Togo	06/85

ENERGY SECTOR MANAGEMENT ASSISTANCE PROGRAM

Current Work Program for West Africa

Country/Activity		Principal Staff	Stage Completed	July	Aug.	Sept.	Comments
Benin	Power System Efficiency Audit	Gulstone/Nickson	(2)	3,4	5		
Burkina	Household Energy Study	Sherbiny	(2)			3	Mission scheduled for October.
Gambia	Energy Assessment Status Report	Armar/Perine	(6)	7		8,9	Second mission fielded in May 1986 to update initial findings.
Ghana	Wood Residues Utilization	Mendis/Boroumand	(4)			5	Reconnaissance mission completed.
Ghana	Improved Charcoal Stoves	Floor/van der Plas	(1)				
Ghana	Energy Efficiency in Indust. & Transport	Richter/Thadani	(2)				
Guinea-Bissau	Technical Assistance to Power Sector	Gulstone/Sharkey	(3)	4		5	Further action subject to mobilization of funding.
Ivory Coast	Improved Biomass Utilization	Floor/Letmann	(5)	6	7	8	
Ivory Coast	In-Depth Study of the Regional Training Center for Power Engineers	Wilton/Perine	(5)	6		7,8	Draft consultant's report expected July 1.
Ivory Coast	Power System Efficiency Audit	Gulstone/Mitchell	(6)	7	8	9	
Liberia	Power Sector Efficiency Audit	Gulstone/Rachrach	(7)	8,9		10	
Mauritania	IDA Petroleum Project	Richter	(-)				
Mauritania	Household Energy Study	Richter	(1)				
Niger	Improved Stoves	Floor/Shanberge	(5)				24-month project cofinanced by GTZ, started February 1985. Mid-term report circulated 4/86. Consultants began field work 4/86. Supervision mission 5/86.
Niger	Household Energy Substitute Study	Floor/Shanberge	(5)		6		
Nigeria	Identification of Tech. Asst. Projects	Aleem/Mathrani	(1)				Awaiting request from the Government.
Sao Tome & Principe	Technical Assistance Identification	Sharkey	(1)				
Senegal	Solar Water Heating Project	Malik	(4)			9	Awaiting Government comments on Green Cover.
Senegal	Energy Conservation Technical Assistance Project	Floor/Shanberge	(5)				First of 3-year project funded through UNDP IPP; second supervision mission scheduled for 9/86. Audit program funded by CIDA to begin 9/86.
Togo	Power Efficiency Audit	Gulstone/Nickson	(2)	3,4	5		ESMAP will define improvements in the management information system and commercial operations of the Togo utility. WAPEG will deal with other aspects of its operation. Mission scheduled August 1986.

Stages of ESMAP Activities

1. Identification, definition of assistance
2. Government request received
3. Terms of reference drafted
4. Activity Initiation Brief issued
5. Mission in field
6. White Cover
7. Yellow Cover
8. Green Cover
9. Discussion with Government
10. Report cleared with government and issued in final

Country	ESMAP ACTIVITIES COMPLETED Activity	Date Completed
Burkina	Ident. of Technical Assistance Projects	03/86
Gambia	Solar Water Heating Retrofit Project	01/85
Gambia	Solar Photovoltaic Applications	03/85
Gambia	Petroleum Supply Management	04/85
Guinea-Bissau	Identification of Technical Assistance Projects	04/85
Liberia	Identification of Technical Assistance Projects	06/85
Niger	Status Report	02/86
Senegal	Energy Conservation Feasibility Study	11/84
Senegal	Asst. to Donors Meeting	05/85
Senegal	Nangbeto Reservoir	04/86
Togo	Nangbeto Reservoir	04/86

WEST AFRICA

Brief Description/Status of Activities

This section provides a brief description and the current status of all the sector work or ESMAP tasks which have been listed in the preceding tables. By definition this coverage extends only to work that has been managed by the Energy Strategy and Preinvestment Division. However, over the next year, we hope to expand the coverage of this text to include all major energy sector work done in the region so that this report can serve a wider and more comprehensive purpose.

For each country, completed activities are presented first; then followed by tasks currently underway. ESW and ESMAP tasks are also distinguished in each case. Given the essentially similar concept of all energy assessments, individual descriptions have not been included for each completed assessment. Abstracts of these reports are available upon request.

BENIN

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in Blue Cover in June 1985.

ESMAP: -

(b) Current Activities

ESW: -

ESMAP: **Power System Efficiency Audit.** The audit will be focused on the problem of non-technical losses only (taking account of other studies available) and will consist of (a) estimating the level of non-technical losses in the system of SBEE (Société Béninoise d'Eau et d'Electricité). (b) recommending improvements in commercial operations as well as investments required to reduce non-technical losses and (c) preparing terms of reference for the recommended improvement program along with an analysis of its costs and benefits. A consultant Commercial Operations Specialist will carry out the audit in August 1986. This audit will be carried out in parallel with a similar operations in Togo.

BURKINA

(a) Completed Activities

ESW: **Energy Assessment Report.** Blue Cover report was distributed in January 1986.

ESMAP: **Identification of Technical Assistance Projects.** An ESMAP report on a Technical Assistance Program for the energy sector in Burkina was issued in Blue Cover in March 1986. Norway has now provided funding for the top priority project identified in the report -- Urban Household Energy Strategy Study, see below. Discussions are continuing within the Bank and with other donors concerning the second and third priority activities -- Petroleum Import Management and Power Plant Rehabilitation Diagnosis.

(b) Current Activities

ESW: **Energy Strategy Paper.** As agreed between EGY and the Region, this will simply consist of a brief memo summarizing the status at the end of FY86 of Bank and ESMAP energy activities in Burkina.

ESMAP: **Household Energy Study.** Following a request recently received from the Government, Phase I of this activity will be undertaken in early FY87. The objective of Phase II will be to prepare an Urban Household Energy Project that would include (a) promotion of improved cookstoves, (b) promotion of kerosene for cooking, and (c) support to forestry policy making.

CONGO

(a) Activities Completed

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** The main assessment mission, which was fielded in April, drew upon the findings of a Trans Energy energy sector review conducted in late 1984 and upon those of WAPEG's Power Sector Memorandum (updated in October 1985). The assessment report will fill in gaps not covered adequately in these reports and at the same time progress further than is normally feasible in assessments, i.e. by spelling out a subsequent program of action, including detailed TOR for priority preinvestment or policy development work. A White Cover report will be completed in July 1986.

ESMAP: -

GABON

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** A reconnaissance mission was fielded in late April 1986 and its findings presented in a Pre-Mission Issues Paper in late June. Priority among the issues identified were questions concerning future petroleum investments, rational development of gas and hydroelectric resources, institutional deficiencies and energy pricing policies. The main assessment mission's visit to Gabon in late October is expected to be very timely, given the probable sector-wide impacts due to recent structural changes in the international petroleum industry. A draft White Cover is tentatively scheduled for late January 1987.

THE GAMBIA

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in final Blue Cover in November 1983.

ESMAP: **Solar Water Heating Retrofit Project.** This report was issued in February 1985. The report, which is a pre-investment analysis of solar water heating retrofit at the five largest tourist hotels, also includes terms of reference to extend the experience to the remaining tourist hotels and to evaluate the potential for solar water heating in the residential and institutional sectors. The total investment for the retrofit program is estimated at US\$500,000, including spares, contingency, and technical assistance. Implementation arrangements for this project are being discussed between Government and Swedish commercial interests.

Solar Photovoltaic Applications Project. This report, a pre-feasibility analysis of photovoltaic applications in the rural health and telecommunications sectors, was issued in March 1985. The report identified highly profitable investments estimated at US\$612,000, consisting of US\$500,000 for hardware procurement and installation, and US\$112,000 for technical assistance. Funds for the implementation of this project are to be provided by UNCDF and the Islamic Development Bank.

Petroleum Supply Management Assistance. This report on petroleum supply management, pricing and allocation was discussed and cleared with the Government in November 1984 and the Activity Completion Report issued in April 1985.

(b) Current Activities

ESW: -

ESMAP: **Energy Assessment Status Report.** This report will provide an overview of sector developments since the preparation of the 1983 Energy Assessment, and include a summary of the findings, recommendations and follow up to the technical assistance and pre-investment activities carried out under ESMAP. A second mission was fielded in May 1986 to bring the report further up-to-date and consolidate the initial mission's findings. The Yellow Cover will be issued for review within the Bank in July 1986.

GHANA

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** Ghana's energy sector is recovering from its serious deterioration which has resulted from (as well as contributed to) the stagnation of the overall economy, compounded by the effects of the 1983-1984 drought. The principal problems in the sector are: (a) the lack of foreign exchange for imports needed for maintenance and rehabilitation; (b) continuous high cost of petroleum imports; (c) the accelerated deforestation, especially in the north-east; and (d) institutional weaknesses at the sectoral and subsectoral levels, and the lack of effective energy planning. The energy assessment would focus on the required response to these problems, which consists in the short term of rehabilitating the productive installations and strengthening the operating entities in the major subsectors, and more efficient energy demand management; and strengthening energy planning and policy coordination at the sectoral level to ensure the implementation of an optimal strategy, and over the medium term, of implementing least-cost options to meet future energy requirements. The main mission visited Ghana in October 1985. Following a Yellow Cover review within the Bank, the report has been forwarded to the Government for review and clearance.

ESMAP: The Energy Assessment mission has identified three high priority preinvestment activities on which work can begin in parallel with the preparation of the main assessment report. These activities are:

Sawmill Residues Utilization. The substantial volumes of residues, particularly sawdust, from the wood processing industry in Ghana, are largely wasted at the present time. There is potential for enhancing the use of the wood industry residues to: (a) generate steam and/or electricity at the sawmills or other conveniently located industries; and (b) produce charcoal and sawdust briquettes. The objectives of this activity are to evaluate these options and prepare viable projects for enhancing the use of sawmill residues. A mission visited Ghana in June and has discussed the Government's comments on the Activity Initiation Brief, hired the local consultants, and initiated the data collection and survey phase of the project. As requested by

the Government the role of the local consultants has been extended to include a preliminary analysis of the data from the survey that they will be conducting. The survey work by the local consultants is to be completed by the end of August. The main mission, including expatriate consultants, is scheduled for September/October 1986.

Energy Efficiency Enhancement in Industry and Transport.

The recent energy assessment has identified important options for improving the efficiency of energy end-use in a number of energy-intensive industries, and in road and rail transport, most of which would depend on rehabilitation of capital equipment. The objectives of the proposed activity are to evaluate the available options in more detail and to indicate the institutional, policy and preinvestment requirements, including energy audits for an effective energy conservation program, as an important component of rehabilitation programs in the industrial and transport sectors. A draft activity initiation brief has been prepared.

Improved Charcoal Stoves Project. Most households in Accra use prefabricated metal stoves fired by charcoal and wood. These stoves are not efficient but could be made more so through some modifications in design and assembly, at small incremental cost. Consequently, the purpose of this project is to establish a self-sustaining non-subsidized commercial production capacity for improved charcoal stoves using existing artisans and marketing channels. Funding for this activity still needs to be mobilized.

GUINEA-BISSAU

(a) Completed Activities

ESW: **Energy Assessment Report.** Issued in Blue Cover in August 1984.

ESMAP: **Recommended Technical Assistance Projects.** A mission visited Guinea-Bissau in August 1984 to discuss the draft Energy Assessment Report and review with the Government a number of technical assistance priorities which had been identified in the report. As a result of the discussions, the mission prepared a package of terms of reference for projects which have the common objective of strengthening the power sector. Following internal review in the Bank, the draft TORs were sent to the Government for their comments. As a consequence, the package of four projects was finalized with a total cost of US\$320,000. An Activity Completion Report was issued in April 1985.

(b) Current Activities

ESW: -

ESMAP: **Technical Assistance to the Power Sector.** A mission visited the Government of Guinea-Bissau in May 1986 to define terms of reference for the implementation of the above package which was modified to include: (a) technical assistance and on-the-job training for plant operators and distribution personnel; (b) strengthening of metering, billing, accounting, procurement and administrative systems; (c) preparation of a detailed map of the distribution system. Financing has already been received from the SIDA for (c). Two bi-lateral agencies are interested in financing (a) and (b) and finalized terms of reference will be sent shortly for their consideration. Implementation will begin as soon as total funding has been secured.

GUINEA

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** The main mission for this assessment was carried out in October 1985. The mission identified the following principal issues: (a) the virtual breakdown of electricity and petroleum supply systems as a result primarily of institutional problems; (b) energy pricing, with particular reference to the need to increase petroleum product and electricity prices to reflect the real cost of supply; (c) the future trend of commercial energy demand in the light of the higher rate of economic growth expected as a result of the economic reform program; and (d) the greatly increased investment requirements (mainly in electric power) to meet the growth of demand. Following a review of the Yellow Cover, the report was finalized in Green Cover and sent to the Government in June, 1986.

ESMAP: -

IVORY COAST

(a) Completed Activities

ESW: **Energy Assessment Report.** Issued in April 1985.

ESMAP: -

(b) Current Activities

ESW:

ESMAP: **Improved Biomass Utilization.** This activity covers four biomass sources with significant potential for increased utilization: sawmill wastes, palm oil residues, rice husks and coffee residues. It will evaluate the economic and technical feasibility for tapping unutilized wastes from these sources to: (a) meet in-house energy requirements at the originating plant; (b) briquetting and/or conversion for use as a household fuel; and in the case of rice, coffee and palm oil residues, (c) generating power to be sold to the national grid. A mission (Floor/Leitmann) was undertaken in November 1985, and its draft report will be circulated for internal review in July 1986.

In-Depth Study of the Regional Training Center for Power Engineers. The objective of this activity is to undertake a comprehensive technical, financial and management review of the Ecole Supérieure Interafricaine de l'Electricité (ESIE) situated in Abidjan, to provide technical training for electrical engineers in Western Africa. Field work began in early 1986, and the consultants' draft report is scheduled for July 1986. The study is being cofinanced with the UNDP.

Power System Efficiency Audit. A mission visited the Ivory Coast in February and performed the efficiency audit. A White Cover report was distributed for review in June. Discussions of the Green Cover report with the Government are envisaged in August/September. The audit will result in recommendations for rehabilitation work at the steam power plant, improvements in commercial operations and some technical improvements to the distribution system.

LIBERIA

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in December 1984.

ESMAP: **Identification of Technical Assistance Projects.** The October 1984 mission which discussed the Green Cover Energy Assessment Report also identified and prepared terms of reference for a number of priority projects in the energy sector. A brief description and terms of reference for further work were prepared for the following projects (i) improvement of utilization efficiency of charcoal; (ii) pre-investment analyses of ore-drying using fuelwood; (iii) power system efficiency improvement; and (iv) review of power exchange possibilities between a mining enclave and a power utility. The Activity Completion Report based on the mission's findings is being circulated to potential donors, some of which have already expressed an interest in funding these activities.

(b) Current Activities

ESW:

ESMAP: **Power System Efficiency Audit.** This activity has identified the need for complete restructuring of the utility as a prerequisite for the restoration of normal service reliability and loss reduction. The Green Cover is being finalized and will be sent to the Government in early July.

MALI

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** Based on discussion with WAPEG and Programs, it had been agreed to defer the energy assessment until FY88 when: (a) the Trans Energy Study on Mali will be over three years old and the issues will need a fresh look; and (b) the ongoing Power Master Plan will be completed and will therefore enable the Assessment to make an important input on evaluating the strategy proposed for electric power development.

ESMAP: -

MAURITANIA

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in Blue Cover in April 1985.

ESMAP: -

(b) ESW: **Preparation of Structural Adjustment Credit -- Energy-related Aspects.** Together with the West Africa Region, EGYS1 will assess the government's energy strategies, policies and investment plans, as a basis for agreeing with the Government within the context of the SAC on energy-related measures conducive to economic stabilization and growth.

ESMAP: **Supervision of Studies funded by IDA Petroleum Exploration Promotion Project.** The Energy Strategy and Preinvestment Division I is responsible for the implementation of energy-related studies under the IDA Petroleum Exploration Promotion Project (Credit No. 1175-MAU). These are: (a) an institutional study on the Energy Directorate of the Ministry of Hydrology and Energy; (b) a study on petroleum products procurement and marketing; and (c) a study on the importation of charcoal. The first two studies have been prepared by consultants and will be reviewed by the Government and IDA in mid-1986. The Government is in the process of selecting consultants for the charcoal importation study.

Household Energy Study. Pending Government approval and based on the above mentioned studies, an evaluation on improving the production, marketing and end-use of household energy would be started in the the third quarter of FY87, with the specific objective of reducing the consumption of domestically produced woodfuels. This evaluation would be followed by a household energy project.

NIGER

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in final cover in May 1984.

ESMAP: **Energy Assessment Status Report.** The report identifies priority technical assistance activities in the areas of woodfuel substitution, petroleum promotion, energy conservation, and petroleum supply and demand management; it was cleared by the Government in December 1985 and was issued in final cover in February, 1986. The report is based on a mission which visited Niger in April 1985 to review the progress made in implementing the major recommendations of the energy assessment report and to identify the priority areas where further technical assistance was required.

(b) Current Activities

ESW: **Energy Strategy Paper.** The Yellow Cover draft of the Niger Energy Assessment Status Report included a chapter proposing a strategy for Bank assistance to Niger's energy sector. It has been agreed that there is no need to process this paper beyond Yellow Cover.

ESMAP: **Improved Urban Cookstoves Project.** The objective of this project is to establish a self-sustaining production and marketing system for the dissemination of portable and prefabricated improved woodstoves. The project is being implemented in two phases. Phase I began February 1985 and is carrying out production and marketing on a pilot basis over an eight-month period at a cost of US\$150,000. Based on the evaluation of the first phase, Phase II is expanding these efforts on a larger scale over an 18-month period at a cost of US\$350,000. The German Government has agreed to contribute the equivalent of US\$200,000 towards the cost of this project. Additional financing has been provided by the Netherlands. The first supervision mission visited Niger April 1985 to evaluate the progress that has been made on the first phase. A second supervision mission visited Niger in January, 1986 to find the interim results of the project very encouraging. Over 25,000 stoves had been sold on a cost recovery basis, almost 125% of projected sales for the entire two-year project. A mid-term Report on the project will be circulated in July, 1986.

Household Energy Substitute Study: The objective of this project is to establish the socio-economic viability of fuelwood substitutes for urban households; the emphasis is on the penetration of either kerosene or LPG in the short term. The project will also assist the Government in developing an operational plan for more rational management of the woodfuel production and marketing system through more effective pricing, fiscal and legal measures. Finally, it will assist in the dissemination of improved woodstoves (Mai Sauki) outside Niamey. The project is being financed by the Norwegian Government through UNSO, and executed under ESMAP. Implementation began in March 1986 and will be completed in August 1986, at a total cost of about US\$340,000. The project is expected to result in an investment and policy package for household energy strategy which will be incorporated in a proposed FY87 IDA Energy Project.

NIGERIA

(a) Completed Activities

ESW: **Energy Assessment Report.** Issued in Blue Cover in August 1983.

ESMAP: -

(b) Current Activities

ESW: **Household Energy Study.** This study, originally identified in the Energy Assessment Report, would be carried out as a component of the Bank's Forestry II Project, at a cost of US\$512,000. It was envisaged that EGYSI would supervise this task for WAPAB. However, due to a lack of CAM resources the task has been dropped.

ESMAP: **Identification of Technical Assistance Projects.** A mission to identify technical assistance projects was fielded in May 1985 and a BTO report outlining proposed projects issued in May, 1985. One of the projects identified as suitable for ESMAP-type activity was a power sector efficiency improvement programme. The Power Preinvestment Study would evaluate options for improving the efficiency and cash flow of the National Electric and Power Authority. It would also help to define the Bank's next power project in Nigeria. Its implementation is dependent on the receipt of a formal request from the Nigerian Government.

SAO TOME AND PRINCIPE

(a) Activities Completed

ESW: **Energy Assessment Report.** This report was issued in final Blue Cover in October 1985.

ESMAP: -

(b) Current Activities

ESW: -

ESMAP: **Technical Assistance Identification** A recent ESMAP mission attended this meeting to join with the international donor community and the GSTP in allocating technical/financial resources to priority projects identified in the Energy Assessment report. An urgently required rehabilitation of the power sector is to be financed by an IDA credit and the GSTP has expressed an interest in requesting a Special Project Preparation Facility (SPPF) from the Bank to carry out a three-component project, consisting of a forest inventory, a woodfuels supply and demand study, and an analysis of the ecological impact of fuelwood use for cocoa drying. The Portuguese and French governments have expressed an interest in supporting activities in the power sector and training while Sweden has tentatively offered assistance to forestry for multipurpose species trials. ESMAP itself will consider undertaking pre-investment activities if and when requested by the GSTP.

SENEGAL

(a) Completed Activities

ESW: **Energy Assessment Report.** This report was issued in final Blue Cover in July 1983.

ESMAP: **Energy Assessment Status Report.** The July 1983 Energy Assessment Report has generated considerable interest in follow-up both within the Bank and among bilateral donors (notably Canada, France and Norway). A mission visited Senegal in July, 1984 to review the progress made in implementing the major recommendations of the Energy Assessment Report and to identify the priority areas where further technical assistance was required. Some of these activities are now in varying stages of implementation with ESMAP assistance.

Industrial Energy Conservation Study. The July 1983 Assessment Report for Senegal recommended the development and implementation of a comprehensive energy conservation program beginning with the industrial sector for which the potential for substantial energy savings had already been established. The July 1984 Energy Assessment Status Mission included an energy conservation specialist who visited about 20 industrial plants to update the Energy Assessment's findings on the energy savings potential in the industrial sector. On the basis of the mission's findings, a report was prepared which defined a three-year project to establish and implement an Industrial Conservation Program, supported by a US\$2.6 million technical assistance package.

Preparatory Assistance for Donor Meeting. For the Senegalese Energy Sector Donors Meeting held in July 1985, the Government of Senegal prepared background documents (a main document and separate subsector documents covering electricity, petroleum, woodfuels, renewable energy and energy conservation). The main document and the woodfuels subsector document were prepared in close collaboration between MDIA staff and two consultants provided under ESMAP financing. The main document outlines development strategies, policies and investment programs for the energy sector, 1985-1992. In addition to assistance in report preparation, one consultant collaborated with SENELEC and the EDF team in charge of the "Plan de redressement" to develop a financial forecasting model for use on a micro-computer. A brief Activity Completion Report recording the scope and nature of the assistance provided to the Government of Senegal was issued in final blue cover in April 1986.

(b) Current Activities

ESW: **Household Energy Strategy Study.** Over 90% of firewood and charcoal consumption in Senegal is accounted for by the residential sector. To support this, the country is running an annual fuelwood deficit of 400,000 m³ over sustainable supply, which is contributing to a decline in soil fertilizing, as increase in desertification and a fuelwood crisis. Because urban households disproportionately contribute to this problem, there is a need to develop a household energy strategy for urban consumers. This will involve: (a) developing a disaggregated data base for analytical purposes; (b) identifying, testing and establishing a hierarchy of project and policy options (substitution, demand management, pricing, increasing supply); and (c) preparing a detailed, costed and coordinated plan of action. At the request of the Government, a mission has been tentatively planned for September 1986.

ESMAP: **Solar Water Heating Marketing Study.** The July 1983 Assessment report for Senegal as well as the Energy Assessment Status Report identified this as a priority area for follow-up technical assistance. A mission in March 1985 concluded that the potential for energy savings, mainly by substituting electric water heating in the residential sector, was over 16,300 toe/year. The project also focused on the design of appropriate manufacturing and maintenance facilities, training, financial and economic analysis, a marketing strategy, roles and responsibilities of the government and as solar water heating development project including a demonstration program. The report has been sent for clearance by the Government and their comments are expected shortly.

Industrial Energy Conservation Project. The first year of the technical assistance package, described above in the Industrial Conservation Study, is being funded by the UNDP through its Country IPF with the Bank acting as executing agency. The project commenced in January, 1986. A supervision mission took place in June. An audit program for large industries, being funded by CIDA, is scheduled to begin September 1986.

SIERRA LEONE

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW: **Energy Assessment Report.** The main assessment mission visited Sierra Leone in the second week of February 1986. The mission found serious problems and deficiencies in nearly all aspects of the energy sector: electricity and petroleum supplies, pricing and demand management, institutions, investment planning, etc. An important reason for this proliferation of problems is the prolonged stagnation in the economy with which the energy sector is inextricably linked. At a time when the new Government is still formulating its strategy to revive the economy, the energy assessment will provide an opportunity to evaluate the short and long term steps needed for restructuring the energy sector. The White Cover report is due out in August 1986.

ESMAP: -

TOGO

(a) Completed Activities

ESW: **Energy Assessment Report.** Issued in June 1985.

ESMAP: **Nangbeto Reservoir Project.** The objectives of this project are: (a) to define the optimal means of clearing wood in the catchment area of the Nangbeto power plant; (b) to devise an appropriate scheme for the use of wood cleared i.e. transportation to Lome; supply to the household sector; potential for charcoal production. An Activity Completion Report was issued in April 1986.

(b) Current Activities

ESW: -

ESMAP: **Power System Efficiency Audit.** This audit will be focussed on the problem of non-technical losses only and will consist of: (a) estimating the level of non-technical losses in the system of CEET (Compagnie d'Energie Electrique de Togo, (b) recommending improvements in commercial operations as well as investments required to reduce non-technical losses; and (c) preparing terms of reference for the recommended improvement program along with an analysis of its costs and benefits. A consultant (Commercial Operations Specialist) will visit Togo in August 1986. This audit will be carried out in parallel with a similar operation in Benin.

REGIONAL

(a) Completed Activities

ESW: -

ESMAP: -

(b) Current Activities

ESW:

ESMAP: -



Record Removal Notice

File Title UNDP - INT/83/005 - Energy Sector Management Assistance Programme [ESMAP] - Correspondence - 1984/1986 - Volume 7		Barcode No. 30189797		
Document Date July 2, 1986	Document Type Memorandum			
Correspondents / Participants To: Zenbei Mizoguchi, Alternate Executive Director From: Bernard Montfort, Acting Director, EGY				
Subject / Title Energy Sector Management Assistance Program (ESMAP)				
Exception(s)				
Additional Comments Declassification review of this record may be initiated upon request.		<p>The item(s) identified above has/have been removed in accordance with The World Bank Policy on Access to Information or other disclosure policies of the World Bank Group.</p> <table border="1"><tr><td>Withdrawn by Kim Brenner-Delp</td><td>Date November 02, 2022</td></tr></table>	Withdrawn by Kim Brenner-Delp	Date November 02, 2022
Withdrawn by Kim Brenner-Delp	Date November 02, 2022			

GM - Energy Sector
(ESMAP)

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REF : TCP FCA

CC F338

INT/13/004

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248423 WORLDBANK

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TLX: 248423 WORLD BANK

TO: INTERNATIONAL DEVELOPMENT ASSOCIATION
(ATTN: NILS FOSTVDT)

FROM: MINISTRY OF ECONOMIC PLANNING AND INDUSTRIAL DEVELOPMENT

RE: INTEGRATED ENERGY PROJECT

FOLLOWING A THOROUGH REVIEW OF THE SOLAR PHOTO VOLTAIC PROJECT WITH THE UNCDF, IT IS NOW CONFIRMED THAT THIS PROJECT CANNOT BE IMPLEMENTED BEFORE THE TERMINATION OF THE ENERGY PROJECT, 31, DECEMBER 1986.

ACCORDINGLY, THE GOVERNMENT WOULD LIKE TO UTILIZE THE US DOLLAR 50,000 PROJECT FUNDS SET ASIDE FOR THE SOLAR PHOTO VOLTAIC PROJECT FOR TRAINING ACTIVITIES FOR THE GEOLOGICAL UNIT AND MEPID PLUS PURCHASE OF EQUIPMENT INCLUDING OFFICE EQUIPMENT.

GRATEFUL FOR YOUR REACTION TO THIS PROPOSAL.

F.L. JATTA
FOR: PERM. SECT.
GAMBIA.

2293 MEPID GV
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ALT RTD FROM: WAF

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ESMAP
INT/83/005

JWS0774 ZJR784 IN 04/05:50 OUT 04/05:52
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44156 BDOIHC IA 1650LT

JUL/4/86

TO MR. BERNARD MONTFORT, CHIEF, EGYSI, INTBAFRAD, WASHINGTON, USA.
RE INDONESIA : ENERGY EFFICIENCY IN BRICK, TILE, LIKE INDUSTRIES.

(AAA)
APPRECIATE YR AUTHORIZING PAYMENT OF US 3.500 TO ME THROUGH IBRD
RES. MISSION, JAKARTA. INTIMATING PROJECT ACCOUNT NO. FOR DEBIT.
FUNDS REQUIRED TO COVER EXPENSES FOR TRAVEL/SUBSISTANCE OF LOCAL
STAFF.

(BBB)
MISSION PROCEEDING AS SCHEDULED. REGARDS BERNHARD FRUEH, JAKARTA

+++
(2)

44156 BDOIHC IA

=07070901

ALT RTD FROM:EAS

NNNN

OFFICE MEMORANDUM

DATE: July 1, 1986

TO: Mr. Martin Ben-Dzam, Consultant

FROM: Masood Ahmed, Deputy Division Chief, EGYSI

SUBJECT: ESMAP: GHANA: Wood Industries Residues Utilization Study --
Terms of Reference

1. In accordance with your letter of appointment as a consultant you will participate in the above project by: (a) conducting a survey of wood processing industries in Ghana between June 9 and August 15, 1986; and (b) periodically joining the main study team during its field work in September to discuss your survey results and to assist in the fieldwork. These terms of reference detail the scope of your responsibilities. They supplement the verbal guidance and finalize the terms of reference given to you by the mission leader, Mr. Matthew Mendis, during his meeting with you in Accra in early June.

2. Your primary responsibility will be to compile available data on the location, capacity, operating profile, energy requirements and waste wood production of all the wood processing industries in Ghana. You should conduct the survey using the questionnaire form mutually agreed upon with Mr. Jahangir Boroumand during his visit to Ghana in early June. You are to work in conjunction with Mr. Essel Benjamin Hagan to incorporate the results of your survey in a final report to be submitted to the Bank. The details of your responsibilities are presented below.

I. THE SURVEY WORK

3. The general purpose and scope of the survey are described in paragraphs 2.1 and 2.2 of the Activity Initiation Brief (AIB) of the above project, a copy of which has been provided to you for your general information.

4. You should compile a list of all sawmill/wood processing facilities in Ghana and, for each facility, obtain at least the following information:

Plant Data

- (i) Full name and location/address (including region, nearest town, and the access road) of each wood processing facility.
- (ii) Type of facilities: milling operation -- plywood or veneer production, furniture work, etc.

- (iii) The maximum production capacity of the facility.
- (iv) Quantity (volume, weight, etc.) of wood processed in 1985 and expected production for 1986.
- (v) Quantity of each output actually produced (lumber, plywood, veneer, woodwork, etc.) in 1985 and expected in 1986.
- (vi) Annual operating period of the facility.

5. Based on the above information you should select a sample of facilities in each processing region for which you should obtain more detailed information on wood residue production and plant energy requirements. The facilities sampled should include all large scale wood processing facilities with capacity of more than 10,000 m³/year as well as a representative population of medium (5,000 to 10,000 m³/year) and small (less than 5,000 m³/year) scale facilities.

(a) Plant Residue Production/Use/Disposal

- (i) Total quantity of wood residues produced in 1985 and expected in 1986 for each facility surveyed.
- (ii) Types of wood residues produced (i.e., sawdust, bark, off-cuts, shavings, sanderdust, etc.) and their quantities, if available, at each facility surveyed.
- (iii) Estimates of the type and amount of residues used by the facility for its energy requirements.
- (iv) Estimates of the type and amount of residues sold commercially and/or given away to others for consumption. For residues sold commercially, indicate type of buyer and price at which sold.

(b) Plant Energy Requirements

- (i) Total annual electricity consumption (kWh/yr), peak demand (kW) and average demand (kW).
- (ii) Sources of electricity indicating if purchased from ECG local grid, national grid or if generated on site.
- (iii) For electricity purchased from the grid indicate the unit costs (¢/kWh) plus demand charge (¢/kW). Also indicate if any special power purchase agreements are in effect.
- (iv) For electricity generated on-site, indicate the method of power generation (i.e., diesel set or steam turbine). Also obtain the price paid for the raw fuel (¢/l) and the quantities of fuels used annually for power generation.

- (v) List the total installed capacity of all power generating equipment that is located on-site and indicate the utilization factors associated with this equipment.
- (vi) List the total thermal (i.e., steam or direct heat) requirements of the plant including peak and average demand.
- (vii) Provide the basic specification of all thermal generating equipment (boiler) including number of units, capacity, type, and fuel requirements, etc.
- (viii) Indicate if any co-generation of power and heat occurs at this facility.

II. REPORT PREPARATION

6. You will tabulate and briefly analyze the data you have collected through the survey to identify major issues and areas that the Bank's project team should focus on to improve the utilization of residues from wood processing industries. For example, opportunities for wood fired power generation in the larger wood processing plants. You are to compile your survey data on a region by region basis, and submit both data (i.e., completed questionnaires) and analysis to the NEB in Accra for transmittal to the Bank according to the following schedule: first submission on July 4 covering Ashanti and Eastern Regions; second submission on July 25 covering Western and Central Regions; third submission on August 15 covering Brong Ahafo Region.

7. You will coordinate with Mr. Hagan to prepare a draft final report by August 8. You will discuss this draft report with NEB and incorporate their comments for submission of a final report to the Bank. Your final report is to be submitted no later than August 15, 1986 to the world Bank's Resident Representative in Accra.

III OTHER ASSIGNMENT

You shall join the rest of the project's team during its field work in Ghana in September to:

- (a) discuss your survey results and assist in its analysis; and
- (b) collect additional information as requested.

Cleared with and cc: Messrs. Mendis (EGYPA) and Upadhyay (WALDB).

cc: Messrs. Eccles (WAP); Berk, Lateef (WALDB);
Bauer, Mathrani (WAPEG); Hindle, Hvidberg-Hansen (WAPAB);
Montfort, Richter (EGYS1).

JBoroumand:j b

OFFICE MEMORANDUM

DATE: July 1, 1986

TO: Essel Benjamin Hagan, Jr., Consultant

FROM: Masood Ahmed, Deputy Division Chief, EGYS1

SUBJECT: ESMAP: GHANA: Wood Industries Residues Utilization Study --
Terms of Reference

1. In accordance with your letter of appointment as consultant you will participate in the above project by: (a) conducting a survey of energy use patterns in the wood processing areas of Ghana between June 9 and August 15, 1986; and (b) periodically joining the main study team during its field work in September to discuss your survey results and to assist in the field work. These terms of reference detail the scope of your responsibilities. They supplement the verbal guidance and finalize the terms of reference given to you by the mission leader, Mr. Matthew Mendis, during his meeting with you in Accra in early June.

2. Your primary responsibility will be to compile available data on the pattern of energy use in all non wood processing industries, commercial and public enterprises, and households located in the vicinity of the main wood processing areas of Ghana. In addition, you will have the primary responsibility of coordinating the results of the wood processing industries survey, being conducted by Mr. Martin Ben-Dzam, into a final report to be submitted to the Bank. You should conduct the survey using the questionnaire form mutually agreed upon with Mr. Jahangir Boroumand during his visit to Ghana in early June. The details of your responsibilities are presented below.

I. THE SURVEY WORK

3. The general purpose and scope of the survey are described in paragraphs 2.1 and 2.2 of the Activity Initiation Brief (AIB) of the above project, a copy of which has been provided to you for your general information.

4. You should identify and put together a list of all major energy consuming industries (e.g., brick factory, etc.), and commercial enterprises (e.g., restaurants, bakery, etc.) which are located within 50 kilometers of the main wood processing centers and use process heat (cooking, drying, etc.) in their operations. For each item on the list you should provide the following information:

(a) Full name and exact location/address.

(b) State if fully operational in 1985 & 1986.

- (c) Type of operation and quantity of output per year.
- (d) Type and quantity of energy consumed per year (biomass fuel, petroleum products, electricity).
- (e) Type and capacity/rating of the energy using apparatus/equipments/processes.
- (f) Source and cost of fuel (where purchased and how much per unit).
- (g) Availability of petroleum products (gasoline, diesel oil, fuel oil, LPG) and biomass fuels (wood, charcoal) and their actual retail price in the area.

5. Through a representative sample survey of households within a 50 kilometer radius of wood processing centers you should provide an assessment of:

- (a) type and quantity of fuel typically used by households (wood, charcoal, kerosene, LPG, electricity); and
- (b) source of fuel (purchased, collected by household members, etc.) and price paid, if any.

II. REPORT PREPARATION

6. You will tabulate and briefly analyze the data you have collected through the survey to identify major issues and items of interest for which the Bank's project team should focus on to improve the utilization of residues from wood processing industries. For example, opportunities for wood residue/fuel oil substitution in industrial boilers and kilns. You are to compile your survey data on a region by region basis, and submit both data (i.e., completed questionnaire) and analysis to the NEB in Accra for transmittal to the Bank according to the following schedule: first submission on July 4 covering Ashanti and Eastern Regions; second submission on July 25 covering Western and Central Regions; third submission on August 15 covering Brong Ahafo Region.

7. You will prepare a draft final report that incorporates the inputs of Mr. Ben-Dzam by August 8. You will discuss this draft report with NEB and incorporate their comments for submission of a final report to the Bank. Your final report is to be submitted no later than August 15, 1986, to the World Bank's Resident Representative in Accra.

III. OTHER ASSIGNMENTS

8. You shall join the rest of the projects team during its field work in Ghana in September to:

- (a) discuss your survey results and assist in its analysis;
and
- (b) collect additional information as requested.

Cleared with and cc: Messrs. Mendis (EGYPA) and Upadhyay (WAlDB).

cc: Messrs. Eccles (WAP); Berk, Lateef (WAl);
Bauer, Mathrani (WAPEG); Hindle, Hvidberg-Hansen (WAPAB);
Montfort, Richter (EGYSI).

JBoroumand:jbb

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

July 1, 1986

INT/83/005

Mr. W. Schmidt
Brown, Boveri & Cie
Aktiengesellschaft
Postfach 351
D-6800 Mannheim 1

Subject: Your Request for ESMAP Reports

Dear Mr. Schmidt:

Thank you for your letter of 4 June, 1986. Brown Boveri's interest in the the joint UNDP/World Bank Energy Sector Management Assistance Programme is greatly appreciated.

I regret to inform you, however, that the distribution of reports prepared under this Programme is restricted to the governments concerned and to the official agencies participating in their execution.

While it is not possible, therefore, for us to send the reports to you, I would suggest that a more successful channel may be for you to direct your request to either the Executive Director for the Federal Republic at the World Bank or to the Federal Ministry for Economic Cooperation in Bonn, one of which may be in a position to assist you.

With repeated thanks for Brown Boveri's interest in the ESMAP Programme,

Yours sincerely,



Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division 1
Energy Department

KSharkey:mdd

The World Bank

INTERNATIONAL BANK FOR RECONSTRUCTION AND DEVELOPMENT
INTERNATIONAL DEVELOPMENT ASSOCIATION

1818 H Street, N.W.
Washington, D.C. 20433
U.S.A.

(202) 477-1234
Cable Address: INTBAFRAD
Cable Address: INDEVAS

INT/83/005

July 1, 1986

Mr. Gosta Elehn
FIDE AB
P. O. Box 142
S-33101 Varnamo
Sweden

Subject: Your Request for ESMAP Reports

Dear Mr. Elehn:

In response to your letter of June 2 1986, I regret that it is not possible for us to respond favourably to your request for reports prepared under the ESMAP Programme as their distribution is restricted to the governments concerned and to the official agencies participating in their execution.

I suggest that a more successful channel for your company may be to contact either the headquarters of SIDA, which is a contributor to our Programmes, or the office of the Executive Director for Sweden at the World Bank. While the activities of interest to you are still under preparation, these sources may be in a position to facilitate your request.

FIDE's interest in the joint UNDP/World Bank Energy Sector Programmes is much appreciated.

Yours sincerely,



Bernard Montfort
Division Chief
Energy Strategy and Preinvestment
Division I
Energy Department

KSharkey: mdd

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INT/83/005

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EGYS1
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INTBAFRAD BANGKOK THAILAND JULY 01. 1986

FOR M. AHMED
REF. THAILAND FUELWOOD/CHARCOAL. YOURTEL 25 JUNE.
AAA MARGARET REGNAULT IS OUT OF TOWN. BUT BOB TAYLOR VAN DER PLAS,
AND I BRIEFED RAY MARSDEN, SECOND SECRETARY, DEVELOPMENT ASSISTANCE,
AT AUSTRALIAN EMBASSY TODAY ON BOTH ONGOING ESMAP STUDIES. DURING
OUR FIELD TRIP IN NORTHEAST REGION WE HAD ALREADY CONTACTED AUSTRALIAN
PROJECT COORDINATOR TERENCE O'SULLIVAN OF THE ADAB-SUPPORTED
TUNG KULA RONGHAI LAND DEVELOPMENT PROJECT (SEE PARAGRAPH 25 OF
ANNEX III OF OUR JOINT BTO REPORT OF MARCH 31) TO SUGGEST THAT OUR
PROPOSED PROJECT MIGHT STRENGTHEN THEIR TREE PLANTING COMPONENT.
WE MENTIONED TO MARSDEN THAT PARTICIPATION IN DECEMBER MISSION BY
AUSTRALIAN EXPERT ON TROPICAL FARMING SYSTEMS. WIND BREAKS AND
LAND USE WOULD BE WELCOME, IF ADAB IS INTERESTED IN FINANCING
PREPARATION.
BBB PLEASE ASK MARGARET WALSH TO IMMEDIATELY TELEX MR. DONALD
DE VIVO, UNDP BANGKOK, AN AUTHORIZATION FOR THEIR DISBURSEMENT OF
LOCAL CONSULTANTS' FEES FOR FUELWOOD PROJECT. AUTHORIZATION MUST
MENTION THEM BY NAME: DR. NARONG SRISAWAS AND DR. PRASIT PRAKONGSRI.

ALSO PLEASE ADVISE UNDP ON CHARGE CODE NUMBER. REGARDS

MIKAEL GRUT

=07010826

ALT RTD FROM:EAS

NNNN