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ENERGY POLICY PROJECT (EPP) MONTHLY PROGRESS REPORT

NOVEMBER 2011



November 2011

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USAID/PAKISTAN: ENERGY POLICY PROJECT (EPP)

Monthly Report: November 2011

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© USAID/Pakistan: Energy Policy Project
House 4, Street 88, Sector G-6/3
Ataturk Avenue, Islamabad
Phone: +92-51- 8357072 ● Fax: +92-51-8357071
Email: mshaikh@aeai.net



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ACRONYMS

EPP	Energy Policy Program
GOP	Government of Pakistan
FARA	Fixed Amount Reimbursable Agreement
GENCO	Generation Companies
GE	General Electric
PSRP	Power Sector Reform Program
CASA	Central Asia South Asia
NPCC	National Power Control Center
PEPCO	The Pakistan Electric Power Company
EECR	Energy Efficiency, Conservation and Renewable Energy
PMO	Project Management Office
EW	Energy Wing
ECC	Economic Coordination Committee
AEAI	Advanced Engineering Associates International
LNG	Liquefied Natural Gas
FODP	Friends of Democratic Pakistan
IMF	International Monetary Fund
NEPRA	National Electric Power Regulatory Authority
IPP	Independent Power Producer
PPIB	Private Power Infrastructure Board
NTDC	National Transmission and Dispatch Company
PSRP	Power Sector Reforms Program
PDIP	Power Distribution and Improvement Program
DISCO	Distribution Company
CPPA	Central Power Purchasing Agency Limited
WAPDA	Water and Power Development Authority
DBDP	Diamer Basha Dam Project
KKH	Karakoram Highway
TUTAP	Turkmenistan, Uzbekistan, Tajikistan, Afghanistan, Pakistan
OGRA	Oil & Gas Regulatory Authority
AEDB	Alternate Energy Development Board

PROGRAM OVERVIEW

USAID’s Energy Policy Project (EPP) supports the jointly agreed upon interests of USAID and the GOP in power generation, transmission, and related policy reform activities. Current key activities include providing monitoring and implementation support to the following six signature energy projects, announced by the Secretary of State, Hillary Clinton:

- Four repair and maintenance projects (3 GENCOs and Tarbela. Total Funding \$68 million)
- Two multipurpose dam completion projects (Gomal Zam and Satpara, Total funding \$66 million)

These projects, when completed, will add more than 718 MW to Pakistan’s generation capacity. As of November 2011, a total of 363 MW have been added to Pakistan’s grid.

Project	MW per FARA	Expected Gains	
		Low	High
Muzaffargarh	165	440	475
Jamshoro	95	120	150
Guddu	55	35	100 ¹
Tarbela	80	88	128
Gomal Zam	17.4	17.4	17.4
Satpara	17.66	17.66	17.66
Total	430.06	718.06	888.06

EPP is providing technical support for identifying and selecting new generation and transmission projects. Examples include TUTAP (Transmission Interconnection, under which power from Central Asian Republics (CAR) can be transmitted to Pakistan through Afghanistan), providing analytical support for projects such as Step I Due Diligence for Diamer Basha, Kurram Tangi, Warsak and Mangla Dam Projects and issues related to these candidate projects.

EPP is also supporting generation & transmission related studies and the policy reform activities assigned by USAID, development of GENCO and NTDC business plans, and developing policies/procedures for the National Power Control Center and advisory services at MWP and the Planning Commission (Energy Wing), Ministry of Finance, etc.

Staffing: Contractor’s level of effort is comprised of 85% Pakistani and 15% international staff.

Location: All Provinces and Federally Administered Tribal Areas

Total USAID Funding: \$191.06 million (including \$10.9 million for consulting services)

¹ At the beginning of the EPP project, due diligence report on Guddu TPS indicated an expected increase of 55 MW in the production capacity. However, due to further de-ration of equipment the expected gain in production capacity of Guddu has increased to 100MW

PROJECT ACTIVITIES



COMPONENT I: PROJECT MONITORING & IMPLEMENTATION

EPP is monitoring the implementation of six Fixed Amount Reimbursable Agreement (FARA) projects, three existing thermal GENCO power plants (Muzaffargarh, Guddu and Jamshoro), one existing hydropower (Tarbela) and two new multipurpose dams (Gomal Zam and Satpara). EPP is also coordinating with the implementing partners to achieve timely progress and the processing of invoices for reimbursement to the GOP from USAID.

HYDROPOWER PLANTS

Rehabilitation of Tarbela Hydropower Plant under FARA:

Tarbela reservoir level reached its maximum level of 1550 ft in August but is now reduced to 1530 ft after releases for power generation. Unit # 4 (after replacement of its windings under FARA) is presently generating 195 MW. Prior to USAID intervention, Unit 4 was generating 87 MW - a gain of 108 MW. Unit 1 & 3 windings have also arrived at the site and presently replacement of Unit 1 winding is in progress with expected completion by March 2012. This will increase the existing capacity of 185 MW by 10 MWs, totaling 195MWs. After completion of Unit-1, replacement/installation of Unit 3 windings will start. Purchase orders for the remaining FARA items/equipment have been placed including seals, pumps, digital governors and SCADA system.

Amendment-I of the Tarbela FARA, revised the completion date to December 31, 2012. Out of the \$16.5 million assistance amount committed for Tarbela, the total disbursement as of November, 2011 is \$9,509,917. The remaining \$ 6,990,083 million includes FARA item 4: SCADA system; item 5: Seals and guides; item 6: Digital governors; item 7: Drainage and dewatering pumps; item 8: Training and 10% payment of Unit-1, 3 winding plus spares for Unit 3 winding.

Gomal Zam Multipurpose Dam under Activity Agreement:

A field visit was conducted by EPP to verify the completion of works and current status on the main dam, powerhouse, transmission line, and other related works. The installation of transmission line towers is in progress; towers have been installed over a distance of 54 km (85 % completion achieved) starting from the Tank Grid station to the powerhouse. Main Dam and Spillway concrete and related works along with mechanical testing of dam fixtures are 100 % complete. Hydropower and Switchyard component is 93 % complete.

With the closure of the diversion tunnel and reservoir filling which started on March 30, 2011, the water level has gone up to 75 meters in the reservoir and by month end was 9 meters below the power intake level. However the outflow from the bottom outlet was higher than the inflow in order to meet the water requirements of the downstream farmers.

EPP verified a claim of US\$ 2.0 million for the completion of mechanical testing of Dam Fixtures and forwarded the same to USAID Energy Office for approval.

Amendment No. 1 to the Activity Agreement, revised the completion date to September 30, 2012. From the \$40 million assistance amount committed for Gomal Zam, the total disbursement as of

November 30, 2011 is \$33,178,000 million. The remaining \$6,822,000 million includes FARA item 5: Hydropower and switchyard component; FARA item 7: 132KV Transmission line; FARA item 8b: Filling of reservoir, testing and commissioning of electrical and civil works.

Satpara Multipurpose Dam under Activity Agreement:

Work on power house 3 & 4 is 51% complete, and the irrigation system is 99% complete. An amendment to the Activity Agreement revised the completion date for phase-I covering the dam, irrigation system and minor civil works (gates, windows) on the already constructed power house 1 and 2 is January 31, 2012. The second phase that covers the construction of the power houses 3 and 4 including civil, electrical and mechanical works is expected to be completed by April 30, 2013.

From the \$ 26 million assistance amount committed for Satpara, the total disbursement as of November 30, 2011 is \$11,274,300. The remaining amount of \$14,725,700 million includes FARA item 3: Civil, Electrical and Mechanical Work for Power House 3 & 4; FARA item 7: Irrigation System; FARA item 9: Consultancy Services and FARA item 11.

THERMAL POWER PLANTS

Rehabilitation of Muzaffargarh TPS under FARA:

Rehabilitation of boiler super heater tubes at Unit 1, 2 & 3' has been completed, adding 230MW of capacity. For most of the remaining FARA Items, tenders have been opened. As of November 30, 2011, total disbursement is \$4,464,500. An invoice for \$551,082 has been submitted to USAID Energy Office for approval.

Due to the delays in the procurement process which led to an amendment in the FARA and transferred ownership of procurements to the GENCO, the Muzaffargarh management requested an extension in the completion dates. A meeting was held at Energy House on November 15, and it was proposed to extend the FARA for one year till November 2012. The approval for the amendment is currently in process.

MTPS faced an issue of operating Foreign Currency Accounts. EPP supported resolution of the matter through the Ministry of Finance. On November 29, a meeting was held with the Additional Secretary along with the GENCO Financial Director. It was agreed that under a special arrangement the GENCO will be allowed to operate the accounts. An official notification is expected in the first week of December.

To ensure Environmental Compliance with GOP and USAID regulations, a meeting was held with Mission Environmental Officer (MEO) on November 29 regarding the Environmental Mitigation and Monitoring Plan (EMMP). Comments from MEO were incorporated and final approval of the EMMP by the MEO is anticipated in December.

Rehabilitation of Jamshoro TPS under FARA:

Two FARA items (Air Pre-heater elements and seals at Unit-I and Autoburner Control System) have been replaced which added a total of 25 MW. Another three items (4, 9, & 23) have been recently received at site and will be inspected by EPP in the first week of December.

Due to the delays in the procurement process which subsequently led to an amendment in the FARA and transferred ownership of procurements to the GENCO, the Jamshoro management requested an extension. A meeting was held at Energy House on November 15, and it was proposed to extend the FARA for one year till November 2012. The approval of the amendment is currently in process.

To ensure Environmental Compliance with GOP and USAID regulations, a meeting was held with Mission Environmental Officer on November 29 regarding the Environmental Mitigation and Monitoring Plan (EMMP) of Jamshoro TPS. Comments from MEO were incorporated and final approval of the EMMP by the MEO is anticipated in December.

Total disbursement as of November 30, 2011 is \$670,000. An invoice for \$270,000 has been submitted to USAID Energy Office for approval.

Rehabilitation of Guddu TPS under FARA:

After a series of negotiations with the GE on the upgrading of Block-I, one of the two 255-MW General Electric Combined Cycle Plants (CCP), the Guddu management is expected to reach a consensus with GE. A Purchase Order is likely to be placed in December. The overhaul will increase the capacity of the plant by about 100 MW (higher than the earlier expected increase of 55 MW), improve its efficiency by about 3.4%, and improve the reliability of the system by upgrading the obsolete gas turbine and steam turbine control systems.

GE submitted a revised proposal in October; however there are some differences in scope of work required by Guddu TPS. EPP is working closely with both GE and Guddu management to resolve the matter at the earliest.

Due to the delays in reaching an agreement with GE on price, work could not start as per the FARA schedule. Therefore, the Guddu management requested an extension for one year. A meeting was held at Energy House on November 15, and it was proposed to extend the FARA till November 2012. The approval of amendment is currently in process.

To ensure Environmental Compliance with GOP and USAID regulations, a meeting was held with Mission Environmental Officer on November 29 regarding the Environmental Mitigation and Monitoring Plan (EMMP) of Guddu TPS. Comments from MEO were incorporated and final approval of the EMMP by the MEO is anticipated in December.

COMPONENT 2: POLICY AND REFORM

SUPPORT TO GOVERNANCE AND REFORM TEAM (GRT), MWP

EPP is supporting the Ministry of Water and Power implement the GOP's Power Sector Reform Program (PSRP) in generation, transmission, fuels, policy and finance. GRT support is jointly performed with the USAID funded Power Distribution Improvement Program (PDIP).

Policy:

EPP provided support to Ministry Officials in policy matters and also provided analytical support in the following matters:

- **Energy Efficiency:** Provided an analysis for Energy Conservation Bill 2011 for the Additional Secretary. The analysis lists key actions items that can be undertaken by MWP to provide for effective conservation and efficient use of energy, and create an enabling environment to support energy security plans of the government.
- **Electricity Act 2011:** MWP requested EPP to review the Electricity Act presentation. A memo comprising of analysis of the presentation and comments was prepared and shared with MWP
- **Electricity Theft:** Gathered data and information on electricity theft to analyze its effect on the energy sector and prepared report on policy options that MWP can implement to deal with the issue.
- **NEPRA Act Amendment:** MWP is working on the options to achieve affordable cost recovery tariff through amendment to Electricity Act 1910 and NEPRA Act. EPP provided an analysis of the Electricity Act 2011 and its impact on the new legislation relation to NEPRA during this process.

Finance:

- **Tariff Determination Methodology:** MWP requested EPP to analyze the Tariff Determination Methodology document prepared by Planning Commission. A memo on feasible tariff determination components was prepared and shared with MWP related.

Transmission:

- First draft of the Standard Operating Procedures (SOP) for National Power Control Center (NPCC) is 97% complete. The SOP for SCADA & Communication remains open since this can only be completed during initial commissioning. The internal review process of the drafted SOPs continued during November; the first 15 out of 25 SOPs are completed and review of the remaining SOPs is under process. The initial draft of the SOPs final review is expected to be completed by December 2011.
- EPP is also developing a contingency plan for NPCC which will act as the backup procedures in the wake of an emergency. The first draft of the plan is now 65% completed and is scheduled to be submitted to NPCC/NTDC by mid December.
- Induction Training Manual (Orientation & Operations) for NPCC's new recruits and the existing operators is being developed. The first draft is expected to be ready by February 2012.

- Provided technical assistance to EPP's team working on NTDC business plan.
- EPP technical team collected and analyzed data for the 132 kv grid system, however the EPP team is waiting to receive data on '132 kv lines' from NTDC. Based on the existing data a quick system analysis regarding the Reactive Power Compensation requirements on the 132kv Grid was done. An estimated Power Factor of 0.75pf was calculated (as an average for 132kv System). Initial recommendations are being drafted and the task is 50% completed.
- NPCC -Economical Dispatch evaluation assessment and recommendation report will be started in January 2012. Data collection from NPCC for the continued during the reporting month. Due diligence will begin in January 2012.
- EPP along with Project Director SCADA visited the 500 KV Grid Station at Rawat on November 2, 2011 in connection with Contingency Plan of NPCC/NTDC and an overall study of the Grid station and allied transmission network.

Import of Power:

- On November 22, EPP met with the Secretary, MWP and MD PEPCO to discuss power imports from Central Asia. Discussions were primarily focused on comparing the CASA 1000 concept with emerging opportunities (TUTAP Concept), and providing the possibility for combining into a single project with much higher benefits, lower costs, and quicker implementation. Serving primarily thermal power, TUTAP-CASA would be able to deliver year-round. If implemented, the TUTAP-CASA project will require synchronization of Pakistan grid with the Asian grid

SUPPORT TO PLANNING COMMISSION

Hydrocarbons:

- Provided support to Energy Wing in the preparation of briefs and comments on ECC summaries, namely gas load management, ban on import of CNG kits and cylinders.
- **Shale Gas:** Followed up on the letter from MPNR to USAID regarding USAID support for Shale gas (policy and technology experts). Met with MPNR on November 21 to finalize the TORs of the experts and specify areas regarding immediate attention of the proposed experts to solicit applications. Review of available CVs is in progress.
- **Public-Private Partnership Report:** Reviewed and provided feedback on the report on LNG imports and related gas sector issues.
- **Business Plan of NTDC:** Reviewed and discussed the business plan of NTDC, obtained informal inputs from Planning Commission and provided feedback to EPP.
- **Pak Integrated Energy Model (PIEM):** In response to a query from USAID, discussed the status, cost and viability of using the PIEM with the Planning Commission. During the meeting it was decided that the model needs to be enhanced and Planning Commission staff trained prior to its usage for power sector planning.

IT Support:

- Created a brief for the Deputy Chairman on the Power Sector Crisis with a focus on NEPRA related issues.
- Gathered information for organizing a Seminar on Business and the Middle Class in Pakistan at the Planning Commission. Modified and updated a presentation for the seminar.
- Updated presentation on Functionalization of CPPA.

COORDINATION, CAPACITY BUILDING & GENERAL SUPPORT SERVICES TO USAID

- Developed curriculum in collaboration with NTDC Planning Department on modeling applications for the transmission system for engineers at NTDC and NPCC. Subject area will involve system analysis and optimization using PSS/E modeling software at two levels – beginners and advanced. The course is tentatively scheduled to start in December 2011.
- Designed a strategy for an internship program involving university students and energy organizations. Initial discussions were held with potential sponsors and the organizations have shown a positive response.
- Prepared a memo for the Acting Director, USAID about the Water Dialogue held in Islamabad during the first week of November. The U.S. Under Secretary of State for Democracy and Global Affairs, Maria Otero, led the U.S. delegation. This was the fourth round of dialogue on water issues between US and Pakistan.
- Prepared a brief for USAID's assistance in thermal power plants. USAID provided funding to install Pakistan's first Combined Cycle Plant consisting of four gas turbines and two steam turbines, each of 100 MW capacity at Guddu. The units were commissioned from 1985-1988 and were highly efficient in providing low cost electricity. These units termed as "GE Frame 9" were the latest at that time. The total project cost for the Combined Cycle Power was \$ 362 million, in which USAID contributed \$ 52 million as a grant.
- Prepared a brief snapshot about the interventions under FARA.
- Prepared a Performance Monitoring Plan (PMP) for the energy sector, on the request of USAID Energy Office.
- Worked on preparation of the quarterly and monthly reports of EPP.
- Compiled a list of deliverables issued by EPP for the electronic library. This activity included collecting documents prepared since 2008 to date, by reviewing all the documents, files, shared folders and organizing the files for easy access. Internal meetings with the project consultants continued during the month for this task, which is now completed. The deliverables are of the following types:
 - Project reports (monthly, quarterly and annual)
 - Financial reports
 - Sector studies
 - Feasibility studies

EPP prepared a brief write-up on the USG's assistance for the construction of Tarbela Dam during the 1960s. The objective was to highlight the role of USAID /USG/ US contractors for the project. Information was compiled from the reports of ADB, World Bank, USAID's clearing house and World Commission on Dams.

NTDC BUSINESS PLAN

An initial draft of the NTDC business plan was completed by EPP. The draft is under review by NTDC. After incorporating NTDC's feedback, the plan will be shared with stakeholders, including the Ministry of Water and Power. Specific activities undertaken during the month are:

- EPP completed the financial model and structural options to capture the exact dynamics of circular debt.
- Completed the analysis of technical matters to link transmission technical performance and financial impact now and in the future.

- EPP conducted a number of meetings with NTDC and CPPA management in Lahore. The agenda was to discuss the salient features of the Business Plan and hand over hard copies of the Draft Business Plan for review and comments of NTDC management.
- On November 22, EPP met with the Secretary, MWP and MD PEPCO to discuss power imports from Central Asia. Discussions were primarily focused on comparing the CASA 1000 concept with emerging opportunities (TUTAP Concept), and providing the possibility for combining into a single project with much higher benefits, lower costs, and quicker implementation. Serving primarily thermal power, TUTAP-CASA would be able to deliver year-round. If implemented, the TUTAP-CASA project will require synchronization of Pakistan grid with the Asian grid
- Pakistan EPP technical team met with Mr. Javed Parvez, CEO of IESCO to review the NTDC business plan as a whole and specifically to consider the 132 kV networks which is the interface between NTDC and distribution companies such as IESCO. Various options for the 132 kV networks were considered:
 - 1) Transfer back the network to NTDC.
 - 2) Leave it at DISCOs and use NTDC for central services
 - 3) Leave it at DISCOs but upgrade DISCOs capacity to properly manage it.

COMPONENT 3: NEW PROJECTS, PLANNING & DEVELOPMENT

When projects are identified by the GOP and others to USAID as candidates for USG support, USAID requests EPP to undertake a two-step Due Diligence exercise to determine whether the proposed project meets the requirements established by USAID. The criteria relate to technical viability, cost and overall effect.

Activities for the reporting period were:

- EPP initiated discussion with WAPDA on the Kurram-Tangi Multipurpose Dam project to meet USAID requirements for detailed information. A Meeting was held with relevant WAPDA officials during the month, in Lahore to get accurate and latest information on the development and progress of the project to derive a schedule for risk assessment. The TORs of Consultant selected for review of design and construction supervision of the project were reviewed. Project implementation schedule, EIA and RAP (resettlement) studies were discussed. Information of pre-construction activities at site and details of cost estimate based on revised PC I prepared and submitted to GOP in July 2011 was obtained. A preliminary draft based on all the above compiled information was shared with USAID.
- EPP continued to advise and support WAPDA in their effort to develop the Kurram-Tangi multipurpose Dam Project by suggesting improvement in quality and credibility of project design review. WAPDA had earlier agreed to EPP's advice to review project design and had selected a consortium of consulting firms for the task but the allocation of consultant resources to tasks seemed inconsistent with purpose of the review. The dialogue continues as WAPDA signed the consulting agreement at the Governor House, KPK on 17 November 2011.
- In response to request from USAID, EPP explored resources to identify and mobilize experts to work with the ADB in developing a Scope of Work proposed to review the Diamer-Basha multipurpose Dam Project. The list of experts was provided to USAID.
- USAID officials visited EPP to follow up on the status of a \$100 million funding request received from Tarbela management in October 2011. On USAID's instructions, WAPDA was asked to give the rationale and expected benefits from these interventions. WAPDA is working on it and once EPP obtains the detailed response it will be analyzed and shared with USAID.
- On USAID's request, EPP provided a 'brief' to USAID describing US role in construction of the Mangla Dam Project built in the 1960s.
- To seek closure on a report "Converting Pakistan's Oil-Fired Power Generation to Coal: A Preliminary Analysis" commissioned by USAID and completed by EPP in late 2010, EPP

EPP met with USAID Energy Office officials to advise and assist in their requirement for WAPDA to develop a Risk Assessment Schedule for the Kurram-Tangi Multipurpose Dam Project.

A draft was discussed and EPP was tasked to work in collaboration with WAPDA to prepare the document.

followed up with the GOP to determine interest to pursue recommendation of “further study” contained therein and found no interest to reopen the study as private sector use of coal was growing in Pakistan owing to higher price of oil.

- EPP is also engaged with Ministry of Finance to explore ways and means to obtain cost effective insurance against credit default on Pakistan sovereign risk for raising offshore USD long-term loans. GOP needs to tap offshore funding to meet critical gaps and innovative structures will be required to obtain success.

PUBLIC PRIVATE PARTNERSHIP

EPP submitted a paper on Public-Private Partnership to USAID. Based on preliminary feedback, the revised paper has been completed for internal review, which will be shared with USAID shortly for consideration.

Draft presentation on PPP has also been prepared internally and will be shared with USAID in December.

ADMINISTRATION/MANAGEMENT: SUPPORT TO EPP

Administration is structured to support on-going and planned project activities while ensuring contractual compliance. Administration encompasses the following functions: Accounting/Finance, Human Resources, Procurement, Contracts, Logistics and Communications. In implementing these functions, processes and policies are developed to ensure uniformity of efforts.

Accounting/Finance

Miscellaneous payments have been made to the vendors during this month. Payroll and financial reconciliations completed. Accounting/finance policy has been revised.

Human Resources

Training program is being developed for security management. Security, Inventory Control and IT policies are being developed.

One technical staff member was added during this month - Director Project Monitoring & Implementation Support and one specialist resigned from her position. Recruiting process for a communication specialist is completed. New employee will be joining on December 7, 2011.

Procurement

RFP issued for training services. Proposal evaluated. Proposal evaluations completed for office equipment and other support services. Procured office equipment/supplies, security equipment, and services to support operations.

Procurement policy revised.

Award made for security services providing an upgrade in past services.

Logistics

4 Trips (arrangements, Per Diem & documentation), evaluated potential guesthouses for staff.

Search for office building and expats' residence

Negotiations with current lessor yielded significant savings and it was determined this represented best value for EPP. Efforts to obtain different office/guesthouse discontinued.

Communications

Trouble shooting IT equipment in office and for operations at ministries; all related matters have been solved during this month.

General Support

Internal training and mentoring program is on-going.

Meeting held with USAID to gain insight and understanding of its role with media and outreach. Post award meeting with USAID held to review scope and responsibilities of upcoming contract.