

## **Highlights from the Multilateral Development Banks' Water and Power Pipelines March – June 2011**

*Compiled by International Rivers*

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Note: All monetary figures are given in US dollars.

## **WORLD BANK**

### **NEW PROPOSED PROJECTS**

Sources: World Bank Monthly Operational Summary

<http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/PROCUREMENT/0,,contentMDK:50004501~menuPK:63001537~pagePK:84269~piPK:60001558~theSitePK:84266,00.html>

and

Projects Portfolio

<http://web.worldbank.org/WBSITE/EXTERNAL/PROJECTS/0,,menuPK:51563~pagePK:95873~piPK:95910~theSitePK:40941,00.html>

### **Proposed Guarantees**

#### ***Albania***

#### **Energy and Mining**

Dam Safety Additional Financing: The objective is to update and ensure the safety of the dams as interventions for Fierza, Komani and Vau i Dejes. Project Concept Review Meeting scheduled for mid-April 2011. Environmental Assessment Category B. US\$22 million (IBRD).

#### ***Albania***

#### **Water Resources and Irrigation Project**

The PDO of the proposed project is to increase the area under improved irrigation and drainage, to improve the safety of dams and to establish the institutional basis for improved integrated water resource management in two priority river basins. PDO indicators include the acreage

under improved irrigation and drainage, the number of reservoirs in compliance with dam safety regulations, and an agreed IWRM strategy. Environmental Assessment Category B. US\$40 million. IBRD/IDA (Specific Investment Loan)

### ***Georgia***

#### **Water, Sanitation and Flood Protection**

Regional Development: The objective is to enable Kakheti to become one of Georgia's most dynamic growth centers, with sustainable rising standards of living for the local population, exploiting its comparative advantages (in agriculture, tourism and small hydropower production), attracting domestic and foreign investments, and generating good quality jobs. Project Concept Review Meeting scheduled for 11 July 2011. Environmental Assessment Category F. US\$50 million (IBRD).

### ***Nigeria***

#### **Irrigation and Water Resources Management Project:**

Project Objectives: Improved performance and management of irrigation and water resources infrastructure and institutions in targeted areas. The project involves the rehabilitation of existing dams and associated irrigation schemes as well as ancillary facilities. Environmental Assessment Category A. US\$400 million IDA (Specific Investment Loan)

### ***Nigeria***

#### **Kainji Hydropower Rehabilitation Project**

Rehabilitation of Kainji Hydro Power Plant as a carbon finance project is envisaged under the Niger Basin Water Resources Development and Sustainable Ecosystems Management Program (WRDSEM). The project development objective of the WRDSEM is to enhance regional coordination, development and sustainability of water resources management in the Niger River Basin. The specific objective of the Kainji Hydro Power Plant Rehabilitation project is to improve the performance of the power generating units at Kainji power station to generate additional electricity of about 240 MW for the Nigerian grid. The proposed project will enhance the availability of cleaner electricity (without any associated green house gas emissions) from the hydro resources, which otherwise could have come from thermal sources. The rehabilitation project thus contributes to green house gas reductions, making it potentially eligible to earn additional revenues from the sale of carbon credits. The rehabilitation of regional infrastructure within the project will involve the Rehabilitation of Kainji dam and hydropower plant and the Rehabilitation of Jebba hydropower dam. Environmental Assessment Category: A. No information on funding sources available yet.

### ***Nigeria***

#### **Erosion and Watershed Management Project**

Project Objectives: This multi-sector project is expected to support a transformation in how Nigerians relate to their land. To respond to the President of Nigeria's request to the Bank to support the country to address severe erosion in southeastern Nigeria, the Project would take a comprehensive watershed management approach coupled with an investment focus on gully erosion prevention and rehabilitation (via a rapid-response facility). Also, via a cross-state learning element, the project will be dynamic, visible, active, transparent, push for reforms, and provide a framework for action that could be scaled out nationwide. Environmental Category B. US\$450 million IBRD/IDA (Specific Investment Loan)

***Macedonia, (former Yugoslav Republic of)***

**Lukovo Pole Water Regulation and Renewable Energy Project**

The Development Objective of the proposed project is to help Macedonia increase the share of renewable energy resources in its energy consumption and contribute to reducing its vulnerability to climate change. The proposed project is located in North-West Macedonia in Korab mountain range, upstream of an existing Mavrovo cascade that includes three hydropower power plants: Vrben (a run-of-river plant upstream of Mavrovo lake), and Vrutok and Raven (dam-storage plants downstream of the lake). The proposed Lukovo Pole Renewable Energy Project comprises: (a) construction of about 20 kilometer long covered feeder channel, running slope parallel, to transfer water from Korab catchment to Lukovo Pole storage and Crn Kamen river, (b) about 70 meter high dam at Lukovo Pole that will have a storage capacity of about 39 million cubic meters, and (c) a small hydropower project (Crn Kamen) of about 5 MW downstream of Lukovo Pole. The reservoir will be within the Mavrovo National Park, and its area will fluctuate between 1.5 and 0.1 square kilometers at the maximum and minimum reservoir level. Total energy generation from the new 5 MW and additional generation from the existing three projects on Mavrovo cascade is expected to be about 160 GWh/year. Estimated Date of Board Approval November 1, 2012. Environmental Category A. US\$50 million IBRD/IDA (Specific Investment Loan)

***Pakistan***

**Tarbela Fourth Extension Hydropower Project**

The overall project development objective is to facilitate a sustainable expansion in Pakistan's electricity generation capacity. This would be achieved by installing a 1,000 MW hydropower plant on an existing dam, thus reducing exposure to many social and environmental challenges generally associated with large dams projects. The project is considered a low hanging fruit and it is a "low-risk- high reward" operation aimed at providing over 2,000 GWh of least-cost low-carbon renewable energy. Tarbela Dam is located at the Indus River about 60 km northwest of Islamabad, with installed capacity of 3,478 MW. The dam is world's largest earth and rock filled structure with a height of 485 feet and a length of 9,000 feet. The dam structure consists of five tunnels and two spillways and the hydropower units are installed on Tunnels 1 to 3. This proposed project would support installation of hydropower units on Tunnel number 4.

Environmental Assessment Category A. US\$300 million IBRD/IDA (Specific Investment Loan)

***Papua New Guinea***

**Energy Sector Development Project**

Listed in November – February 2011 Pipeline.

The proposed project development objectives are (i) to strengthen the enabling environment toward low carbon growth path and increasing access to electricity; and (ii) to attract investors to develop new hydropower generation to supply the Port Moresby electricity grid. Specifically, the project calls for Technical Assistance related to the Department of Petroleum and Energy (DPE)/Government of Papua New Guinea (GoPNG) role in the oversight of the Naoro Brown Hydropower Project and in developing the next hydropower project to supply the Port Moresby grid and setting the stage for further medium and large hydropower developments in the Port Moresby area. Updated information: Environmental Category B. US\$6 million IDA ( Specific Investment Loan). Estimated Date of Board Approval April 27, 2011

## ***Regional***

### **Energy and Mining**

Regional Eastern Africa Power Pool APL1: The objective is to improve supply of competitive, clean energy in the sub-region through cross border transmission interconnections and by fostering a sustainable optimal expansion and operation of an integrated regional power market. Project Concept Review Meeting scheduled for 22 June 2011. Environmental Assessment Category A. US\$500 million (IDA Credit).

## ***Thailand***

### **Electricity Generating Authority of Thailand (EGAT) and Provincial Electricity Authority (PEA) Advancing Clean Energy Investment-Clean Technology Fund (CTF) Project**

First reported in March-May 2010 Pipeline (The objectives are to (a) increase renewable energy share of Thailand; and (b) increase the technical capacity of EGAT and PEA in renewable energy.) the Project Concept Review Meeting was scheduled for 27 April 2010. Updates to Project description: EGAT has developed their alternative energy strategy with a total installed capacity of 340 MW of renewable energy by 2022, accounting for 19% of the country's renewable target with respect to small hydro, wind, solar and municipal solid waste projects. Of the projected 340 MW, small hydro counts for the largest share of 194 MW, followed by 129 MW of wind, 15 MW of municipal solid wastes, and 2 MW of solar. The project will support a time slice of the EGAT's alternative energy strategy over the next 5-6 years. The project plans to adopt a framework approach which would define eligibility criteria for renewable energy sub-projects to be financed under the proposed project. A preliminary list of projects will be agreed with EGAT at appraisal but final decision will depend on projects meeting agreed technical, financial, economic, and safeguards requirements. The project may also retroactively finance a 30 MW small hydro project and an 18 MW wind farm which are under procurement process at the time of project preparation. The inclusion of these two projects will be determined as part of the appraisal process. Date of projected Board Approval July 28, 2011. The project is now Environmental Assessment Category A on the WB website and TDB in the project documents. US\$110 million (IBRD), US\$110 million (Clean Technology Fund CTF)

## ***Uganda***

### **Water Management and Development Project**

Key results to be achieved through the project are: (i) strengthened institutional capacity for effective water sector development and management; (ii) improved access to urban water supply and sanitation, and protection of catchments to ensure long term sustainability; (iii) development and implementation of priorities identified in catchment based plans; and (iv) improved integrated water resources management information and monitoring systems. The project will contribute to higher level goals of sustaining natural resources, improving service delivery, and increasing economic productivity. The project will include construction or rehabilitation of multipurpose storage and water for production facilities, flood management systems, catchment restoration and management; the improvement of water resources monitoring and information systems across the country; and implementation of select activities under the Kalagala Offset Sustainable Management Plan (KOSMP). The second component of the project is investment in UWSS services and catchment protection, this will involve catchment restoration and protection for selected existing and future water supply sources. Environmental Category B. US\$130 million IBRD/IDA (Specific Investment Loan)

## *Uzbekistan*

### **Alat and Karakul Water Supply Project**

The proposed project development objective (PDO) is to improve the coverage, quality, and efficiency of public water supply services in the two towns of Alat and Karakul in the Bukhara region. The objective would be achieved through rehabilitation and/or replacement of the existing water supply infrastructure in the two districts that has now reached the end of its useful life. Environmental Category B. US\$20 million IBRD/IDA (Specific Investment Loan)

## **Uzbekistan**

### **Water, Sanitation and Flood Protection**

Water Supply and Sanitation Adjustable Program Loan: The objective is to support the Government's urban and rural WSS infrastructure projects, sector strategy infrastructure, while supporting sector policy-making and planning, capacity building and institutional reform. Project Concept Review Meeting scheduled for 18 July 2011. Environmental Assessment Category B. US\$225 million (IDA Credit).

## **INTERNATIONAL FINANCE CORPORATION**

### **NEW PROPOSED PROJECTS**

Source: IFC Projects Database

<http://www.ifc.org/projects>

<http://www.ifc.org/disclosure>

## *Georgia*

### **Paravani**

<http://www.ifc.org/ifcext/spiwebsite1.nsf/f451ebbe34a9a8ca85256a550073ff10/28f1c6ad7b6aed8685257868005087a5?opendocument>

The Project consists of the construction, operation and maintenance of an 87 MW run-of river hydro power plant ("HPP"), on the Paravani River, near the town of Akhalkalaki, Georgia, close to the Turkish border (the Project"). In addition to the power generation facilities, the Project includes a conveyance tunnel of 13.77km and 32 km of 220 kV transmission line to the Akhalskhe substation which connects to the 400/500 kV high voltage Akhalskhe-Borcka transmission line from Georgia to Turkey (the "Black Sea Transmission Project" or "BSTP"). The Project will supply electricity to the Georgian market in the three winter months (expected to be in December, January and February) and export power to the Turkish market in the remaining nine months of the year. Total Project cost is estimated at \$156.5 million. The Project will be financed by IFC, EBRD and TSKB, a Turkish bank (as an IFC/EBRD B lender). The proposed IFC investment consists of an A Loan for up to US\$37.5 million, or 24% of Project cost. Environmental Category A. Projected Board Date June 16, 2011

## **ASIAN DEVELOPMENT BANK**

### **NEW PROPOSED PROJECTS**

Sources: ADB Business Opportunities, Proposed Projects  
<http://www.adb.org/Projects/summaries.asp> and  
ADB Projects Search, Proposed Projects  
<http://www.adb.org/Business/Opportunities/prprjcs.asp>

### ***Indonesia***

#### **Water Supply and Sanitation Sector Development Project**

<http://www.adb.org/Projects/project.asp?id=42363>

The TA will provide support to BAPPENAS, the Government's National Development Planning Agency, to review and assess the water supply and sanitation sector in the country; identify the key issues and bottlenecks and how to overcome these; assist in developing sector roadmaps; and contribute to the development of an improved project pipeline for urban and rural water and sanitation projects to assist in the achievement of MDG targets. Technical Assistance US\$2 million (A.T.F. French T.A. Grant) Loan, US\$70 million (Ordinary Capital Resources)

### ***Laos***

#### **Nam Ngum 3 Hydropower Project**

<http://www.adb.org/Projects/project.asp?id=41385>

First listed in Sept-Nov10 pipeline. Updated information – up for approval in 2011 and 230-530kV Nabong Substation up for approval in 2012.

The Nam Ngum 3 Hydropower Project (NN3) will be located along the Nam Ngum River in Vientiane and Xieng Khouang Provinces of Lao PDR, upstream of NN1 and NN2 (both operational), downstream of NN5 (under construction), and downstream of NN4 (in the planning phase). The Project is set 130 km north of Vientiane, about 4.5 km upstream of the confluence of the Nam Ngum River with the Nam Pha. PID last updated June 1, 2011. Loan US\$100.4 million (Ordinary Capital Resources), US\$15 million (Asian Development Bank). Loan for Nam Ngum 3 Hydropower Project and Na Bong – Udon Thani 500 kV Power Transmission Project US\$200 million (Ordinary Capital Resources). Loan for 230-530kV Nabong Substation, US\$160 million (Ordinary Capital Resources)

### ***Micronesia***

#### **Pohnpei Power Sector Development Project**

<http://adb.org/Projects/project.asp?id=45112>

No Information available. Loan US\$1 million (Ordinary Capital Resources) Loan, US\$2.5 million (Asian Development Bank)

### ***Regional***

#### **Supporting Water Operators Partnerships in Asia and the Pacific (WOPs Phase 2)**

<http://pid.adb.org/pid/TaView.htm?projNo=44087&seqNo=01&typeCd=2>

The regional Technical Assistance "Supporting Water Operators Partnerships in Asia and the Pacific" provides technical and financial assistance, through a demand driven approach, to urban water utility operators that want to improve their services through operational and financial performance improvements. Supports initiatives in the water supply and sanitation sector and is consistent with strategic areas of engagement, primarily relating to: (1) improved infrastructure services, with increased public and private sector investment; and (2) accelerated MDG achievement through increased coverage and better water supply and sanitation services.

Loan TBD (US\$500,000) (Asian Development Fund)

***Vietnam***

**Northern Chu and Southern Ma Rivers Irrigation System**

<http://www.adb.org/Projects/project.asp?id=40239>

Technical Assistance US\$80 million (Special Fund)

**INTER-AMERICAN DEVELOPMENT BANK**

**NEW PROPOSED PROJECTS**

Source: Projects Gateway, Projects in Preparation

<http://www.iadb.org/projects/index.cfm?language=English>

***Barbados***

**Support for Sustainable Energy Framework II**

<http://www.iadb.org/en/projects/project,1303.html?id=BA-L1021>

No Information Available. Category A, 2011. Ordinary Capital Policy Base Loan \$70 million. (In March-May 2010 compilation, but with a loan of US\$20 million.)

***Brazil***

**CEEE Generation and Transmission Project**

<http://www.iadb.org/en/projects/project,1303.html?id=BR-L1303>

The multi-part project involves expanding the capacity of existing small hydroelectric plants. Secondly the rehabilitation and modernization of two hydroelectric plants UHE Passo Real (158MW) and UHE Itauba (500 MW) These two hydropower plants located in Rio Jacui were built and began operations over 30 years. The main objectives of modernization are: rehabilitation of power generation capacity, increased reliability and operational flexibility, increased useful life, ensuring reliable operation of equipment for the second life of service, upgrade technology and reduction of the maintenance period. The third component of the project is the expansion or adaptation of 19 existing electrical substations and increased capacity of three existing transmission lines. Category A, 2011. Ordinary Capital Private Sector Loan A US\$35.5 million. Ordinary Capital Private Sector Loan B US\$50 million.

***Brazil***

**Rehabilitation Program of the Hydroelectrics "Furnas" and "Luiz Carlos Barreto"**

<http://www.iadb.org/en/projects/project,1303.html?id=BR-L1278>

The project aims to modernization and rehabilitation of the Furnas and Luiz Carlos Barreto hydroelectric power plants to: (i) recuperate their electricity generation capacity; (ii) increase their efficiency and reliability and reduce their maintenance cost and time; (iii) increase their operational life; and (iv) update all their technological components. Category A, 2011. Ordinary Capital Investment Loan US\$180 million.

***Suriname***

**Development of Sustainable Energy Framework**

[http://www.iadb.org/en/projects/project\\_1303.html?id=SU-L1022](http://www.iadb.org/en/projects/project_1303.html?id=SU-L1022)

No Information available. Category A, 2012. Ordinary Capital Policy Base Loan US\$10 million

## **AFRICAN DEVELOPMENT BANK**

### **NEW PROPOSED PROJECTS**

Source: ADB Business Bulletin

[http://www.afdb.org/portal/page?\\_pageid=473,969595&\\_dad=portal&\\_schema=PORTAL](http://www.afdb.org/portal/page?_pageid=473,969595&_dad=portal&_schema=PORTAL)

No new projects were added in this issue