

**Highlights from the Multilateral Development Banks' Water and Power Pipelines
December 2008 – February 2009**
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>

Brazil

Pernambuco Sustainable Water

The objective is to improve water resources management and water supply and wastewater service delivery in the State of Pernambuco. It will also support a move towards a long term, innovative approach to sector wide efficiency and financial improvements. This will be achieved through: (i) improvements to the institutional, regulatory and operational framework of the sector, (ii) improvements in COMPESA's operational efficiency and improved reliability in water service delivery, and (iii) improving access to WSS services to those not yet connected. Decision meeting scheduled for 31 March 2009. Environmental Assessment Category A. \$190 million (IBRD).

Brazil

Sao Paulo Water Recovery-REAGUA

The objective is to increase water availability in the State's critical watersheds through: (a)

improving water demand management and water consumption efficiency, controlling and reducing water losses, and reusing wastewater; (b) building new and optimizing existing sewerage systems, and cleaning selected water streams; and (c) improving the WSS sector's legal, institutional, and regulatory framework in the State, and supporting the project beneficiaries in the design, operation, and maintenance of the programs and facilities. Decision meeting scheduled for 2 March 2009. Environmental Assessment Category B. \$78 million (IBRD).

China

Inner Mongolia Biomass Heat and Power

The objective is to provide clean power and heating services to the residents of Xing'an Meng in Inner Mongolia. This would be achieved by: (a) Developing CHP (Combined Heat and Power) plants in Ulanhot and Arxan cities that will utilize biomass residues (forestry and agricultural) and biomass from fuelwood plantations; (b) Rehabilitating and expanding district heating networks and associated supply infrastructure; and (c) Providing adequate training and capacity building support during preparation and project implementation for biomass fuel supply, CHP plant, and district heating system. Project preparation is underway. Environmental Assessment Category B. US\$ 30 million (IBRD).

China

Nanning Urban Environment

The objective is to help the rehabilitation and river integrated environmental improvement of the Fenghuang and Liangqing rivers, Wastewater Management of City and Counties, including the construction of the 2nd Phase of a Wastewater Treatment Plant in Jiangnan. Project concept review scheduled for 18 November 2008. Environmental Assessment Category A. \$100 million (IBRD).

China

Second Energy Efficiency Financing

The objective is to scale-up commercial debt financing for energy efficiency (EE) investment across China through an EE financing debt facility (the Facility) to be created and managed by Minsheng Bank with the support of (i) an proposed IBRD loan; (ii) a possible public debt financing from the China Clean Development Mechanism Fund (CCDMF) and (iii) a possible IFC risk sharing facility. Project identification is underway. Environmental Assessment Category FI. \$100 million (IBRD).

Guatemala

Markets for Sustainable Energy

The objective is to (a) assist with measures in the energy sector that will allow it to reduce its dependence on imported oil and (b) employ both short- and longer-term options involving both investment and technical assistance. Project preparation is underway. Environmental Assessment Category B. \$65 million (IBRD).

India

Financing Energy Efficiency at SMEs

The objective is to improve energy efficiency and reduce GHG emissions from Small and

Medium Enterprises utilizing increased commercial financing by: (a) create increased demand for EE investments; (b) raise the quality of EE investment proposals from a technical and commercial perspective; and (c) expand use of existing resources and/or aid in the development of new financial instruments which will be deployed as required to overcome market barriers in implementing and financing EE projects. Project preparation scheduled for late-January 2009. Environmental Assessment Category B. \$11.3 million (GEF).

Indonesia

Upper Cisokan Pumped Storage Power

The objective is to improve the overall efficiency of the power generation system in Java-Bali. This will be achieved through (a) the development of the proposed Upper Cisokan Pumped Storage hydropower plant in an environmentally sustainable and socially responsible manner, and (b) the implementation of an institutional and technical assistance program to improve PLN's managerial and operational capabilities. Project preparation is underway. Environmental Assessment Category A. \$470 million (IBRD).

Jordan

Al-Qatrania Power Project

The objective is to assist the country's electricity needs in an economically and environmentally sustainable manner. Project preparation underway. Environmental Assessment Category A. \$50 million (Guar.).

Lao People's Democratic Republic

Rural Electrification Project – Phase 2

The objective is to support Ministry of Energy and Mines (MEM) and Electricité du Laos (EdL) in expanding the national power network as well as off-grid systems: (a) would support the implementation of an electricity tariff reform as well as formulation of a sector financing strategy for the purpose of scaling up investment in the power sector; (b) strengthen the capacity at EdL to implement loss reduction programs and roll out Demand-Side Management and energy efficiency activities; and (c) assist MEM in piloting alternative power generation technologies and formulate necessary legal, regulatory and institutional arrangement to foster replication. Project preparation is underway. Environmental Assessment Category B. \$51/\$1.25 million (IDA/GEF).

Lao People's Democratic Republic

TA for Capacity Development in Hydropower and Mining Sector

The objective is to support the hydropower and mining sectors through a combined technical assistance project which would put emphasis on capacity building within sector agencies as well as across related government institutions. The hydropower component would include optimization of revenue-sharing and ownership arrangements, establishment of a Hydropower Learning Center, and capacity building in power system planning and operation. The mining sector component would include support to legislative and regulatory strengthening, institution of cadastre management procedures, enhancement of geo-science capacities, support to artisanal and small-scale mining, and strengthening of monitoring and inspection procedures. Project preparation is underway. Environmental Assessment Category B. \$ 7 million (IDA).

Pakistan

Thar Coal and Power Technical Assistance

The objectives are to: (a) help the Governments of Sindh and Pakistan strengthen the enabling policy, legal, and regulatory frameworks conducive to new investments in the coal-to-energy sector; and (b) assist the Governments of Sindh and Pakistan to attract qualified private investors to develop Thar coal deposits and build new capacity for coal thermal power generation, guided by high standards of environmental and social sustainability. Decision meeting scheduled for 11 February 2009. Environmental Assessment Category B. \$ 26 million (IDA).

Senegal

Sustainable Management of Fish Resources (Cr. 4545-SN)

The objective is to reduce fishing pressure on the fish stocks supporting the central coastal fisheries of Senegal (from the Cap Vert Peninsula to the Saloum River Delta). Board presentation scheduled for 16 December 2008. Environmental Assessment Category B. \$3.5/\$6 million (IDA/GEF).

Thailand

Small Scale Livestock Waste Management

The objective is to convert open anaerobic lagoons to covered lagoons to capture and utilize methane to generate electricity for consumption within the participating farms. The implementation of each farm will depend on its technical and financial readiness. The participating farmers will transfer the ownership of the emission reductions to the Energy Research and Development Institute (ERDI), which will act as a project sponsor. Preparation scheduled for 12 January 2009. Environmental Assessment Category B. \$15.7 million (CF).

Viet Nam

Second Rural Energy Additional Financing

The objective is to: (a) major upgrading and/or expansion of rural power networks in about 1200 communes; (b) conversion of current ad-hoc local electricity management systems to local distribution utilities (LDUs) as legal entities recognized under Vietnamese law, to improve management of power distribution in rural areas, improve financial sustainability, and better enable future mobilization of private funds; and (c) capacity building assistance for the LDUs, provincial authorities, participating regional power companies, and national authorities involved in the planning and regulation of rural electrification. Decision meeting scheduled for 22 January 2009. Environmental Assessment Category B. \$200 million (IDA).

Proposed Guarantees

Bangladesh

Bibiyana IPP (Private Sector)

The objective is to mobilize private capital for the development and implementation of a 330-450 MW gas-fired, base-load, combined-cycle power plant in the northeast of Bangladesh, approximately 180 km from Dhaka, eight kilometers from the Bibiyana gas field (operated by Chevron) on the Kushiya River. An IDA PRG of up to \$200 million is being considered in support of the project. Board presentation is tentatively scheduled for fourth quarter of FY10.

Botswana

Mmamabula IPP Project (Private Sector)

The objective is to support the development and implementation of a 2100 MW (3 x 700 MW) coal fired supercritical power plant and an associated coal mine in eastern Botswana (in the locale of Mookane and Dovedale) to be developed, owned, and operated by a private sector project company. An IBRD partial risk guarantee is being considered in support of the project to backstop certain government obligations. Board presentation tentatively scheduled for second quarter FY09.

Botswana

Morupule B IPP Project (Public Sector)

The objective is to support the development and implementation of a 600 MW (4X150MW) coal fired CFB power plant, adjacent to the existing MORupule A power station in the township of Palapye, eastern part of Botswana. An IBRD in Partial Credit Guarantee (PCG) is being considered in support of the project depending on the financing plan envisaged for the project. Board presentation tentatively scheduled for third quarter FY09.

Cameroon

Kribi Gas Power IPP (Private Sector)

The objective is the development and implementation of a 150 MW gas-fired power plant located in the Mbolongwe village, 9 km north of the coastal city of Kribi in the southern province of Cameroon. The primary development objective for the project is to increase the capacity and reliability of electricity supply in Cameroon through the implementation of the 150 MW Kribi gas power generation project to create a solid base for growth and poverty reduction in Cameroon. An IDA PRG of about \$60 million being considered in support of the project. Board presentation is tentatively scheduled for second quarter of FY09.

Nigeria

Energy Infrastructure Project (Private Sector)

The objective is to support the development and implementation of an about 1,500 MW power plant in Nigeria. IDA PRGs of about US\$ 160.0 are being considered in support of the project. The PRG would help to assist the Government in putting in place an appropriate framework for IPPs as well as the extent of Government support to be provided through the PRGs. Board presentation tentatively scheduled for second quarter FY09.

Senegal

Electricity Efficiency Enhancement (Kounoune IPP) (Public Sector)

The objective is to improve efficiency in the power sector and meet increasing demand for electricity. An IDA partial risk guarantee of \$7.2 million was offered as an inducement for third-party co-financing of the investment project for which an IDA credit of US\$ 15.0 was approved by the Executive Directors on May 2005. Financial closure is pending.

INTERNATIONAL FINANCE CORPORATION

New Proposed Projects

Source: IFC Projects Database

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

Chile

San Andres Hydroelectric Project

<http://www.ifc.org/ifcext/spiwebsite1.nsf/f451ebbe34a9a8ca85256a550073ff10/833e004749e9ff01852575280062f69b?opendocument>

The project is a 30MW greenfield run-of-the-river hydroelectric project located in the Tinguiririca Valley of Chile's VI region. The project is expected to generate 130 GWh of electricity annually using up to 8 cumecs of flow from the San Andres river and will include a 22km 110kV transmission line to a sub-substation of the Sistema Interconectado del Central (Chile's largest grid system) located at the confluence of the Azufre and Tinguiririca Rivers. Operation is scheduled to begin in July 2011.

The project is being developed by a Chilean special purpose vehicle, Hidroeléctrica San Andrés S.A. ("San Andres" or the "Company"). San Andres is 99.99% percent owned by HydroChile, S.A., a Chilean start-up hydropower generation company established in 2006 to develop greenfield hydropower assets in Chile.

The total project cost is approximately \$64 million. IFC will provide the debt financing for the project in the form of a \$13 million A Loan, a \$25 million B Loan and a \$3 million subordinated C Loan. Environmental Category B. Projected Board date: January 30, 2009.

Colombia

Termoflores Gas-Fired Combined Cycle

<http://www.ifc.org/ifcext/spiwebsite1.nsf/f451ebbe34a9a8ca85256a550073ff10/9c52b5936ed701485257528005f0a0b?opendocument>

The project consists of the construction of a 169 MW gas-fired combined cycle unit by Termoflores S.A. E.S.P. ("Termoflores" or "the Company"), a generation company whose operations are located in Barranquilla, Colombia. Currently, Termoflores has three natural gas-fired units in operation, (the Flores I combined-cycle and the Flores II and III open-cycle) with a total installed capacity of 441 MW. Flores IV includes the expansion/conversion of the existing gas turbines in Flores II and III from open cycle to a combined cycle facility, by adding a new steam turbine generator, heat recovery steam generator and balance of plant equipment. Flores IV will utilize the waste heat from Flores II and III to provide 169 MW of additional capacity without using significant additional gas. After the project is completed, Termoflores will have two operating units (Flores I and Flores IV) with a generation capacity of 610 MW. The estimated construction time is 25 months and project completion must be attained before December 1, 2010.

The total project cost is estimated at about \$278.2 million. The proposed IFC investment is a \$65 million A Loan for IFC's own account and \$92.5 million B loan from participants. Environmental Category B. Projected Board date: March 2, 2009.

Haiti

E-Power S.A. Heavy Fuel Oil Power Plant

<http://www.ifc.org/ifcext/spiwebsite1.nsf/f451ebbe34a9a8ca85256a550073ff10/a1d9438fd59a3cd88525754c005dcd51?opendocument>

The Project is the first IFC infrastructure project in Haiti. It is to construct, own, and operate a 30MW Heavy Fuel Oil (“HFO”) diesel power plant on a build-own-and-operate (“BOO”) basis in Port-au-Prince. The project will sell its capacity and electricity to the state-owned utility, Electricité d’Haiti (“EDH”), under a 15-year Power Purchase Agreement (“PPA”). The project benefits from sovereign guarantee and tax and duty exemptions under a Implementation Agreement (“IA”) and a Sovereign Guarantee with the Republic of Haiti.

Total project cost of \$50 million will be financed 75% by debt and 25% by equity including preferred equity. A Senior Loan of up to \$11 million will be financed by IFC; a Project Cost Overrun Facility of up to about US\$2.125 million; and, an equity investment of up to \$1.0 to 1.5 million (with a projected equity return of about 22%), amounting to up to about \$14.5 million or 29% of total project costs. Environmental Category B. Projected Board date: March 10, 2009.

India

Jain-II Micro-Irrigation

<http://www.ifc.org/ifcext/spiwebsite1.nsf/f451ebbe34a9a8ca85256a550073ff10/c055ea9746d2eacf852575240054cfa2?opendocument>

Jain Irrigation Systems Ltd. (JISL or the company) is India’s largest provider of micro-irrigation systems (MIS). In addition to MIS, the company is also a leading producer of plastic sheets and pipes, and processed fruits and vegetables. Its headquarters are located in Jalgaon in the western Indian state of Maharashtra. IFC is considering providing a corporate loan to JISL to finance its capital expenditures program.

Planned capital expenditure for the next two years is estimated to be at \$94.3 million. The proposed IFC investment is a combination of equity and debt investment of up to \$45 million. Environmental Category B. Projected Board date: January 23, 2009.

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/prprpjcs.asp>

China

AEQUERO LIMITED (formerly ASIA CLEAN ENERGY PROJECT DEVELOPMENT COMPANY)

<http://www.adb.org/Projects/project.asp?id=42932>

ADB proposes to invest up to \$2.5 million, or a shareholding of not more than 25% of the total issued capital in Aequero Limited, a company incorporated under the laws of Hong Kong, China, that provides advisory services to, and makes early stage investments in, clean energy and renewable energy projects in developing member countries (DMCs) of the ADB.

Aequero will increase the number of clean energy projects in Asian DMCs attracting private sector debt and equity by advancing early stage conceptual projects to more mature investment

opportunities. Aequero's value proposition is a unique project origination and incubation process that has the ability to replicate project development techniques across the region, and aggregate smaller projects with significant development impact into financeable structures.

The investment provides capital for the firm to expand its project origination and incubation process, and cover third party development costs of clean energy projects with the outcome of stimulating additional private sector participation. Environmental Category C. Equity Investment \$2.5 million.

Greater Mekong Region

Flood and Drought Risk Management and Mitigation

<http://www.adb.org/Projects/project.asp?id=40190>

The RETA will improve the ability of communities in Cambodia, Lao PDR, Thailand, and Viet Nam to prepare for, respond to, and recover from the negative impact of floods and droughts. The RETA will be implemented in close collaboration with the MRC's FMMP, and will use the outputs of that program. The key activities of the RETA will be to (i) identify and prioritize flood and drought issues regionally within the LMB and within in each country through regional and national road maps developed to improve flood and drought risk management, (ii) develop a prioritized program of structural and nonstructural FRM and DRM interventions in each country, and (iii) prepare feasibility studies for proposed investment projects in Cambodia, Lao PDR and Viet Nam on the basis of the national roadmaps. The RETA will identify target beneficiaries, address regional policy and cooperation issues, analyze costs and benefits, and establish implementation arrangements for investment projects for possible funding by ADB or other financiers. Grant for GMS-LAO \$20 million (Asian Development Fund, for approval in 2010); RETA for GMS \$2 million (Japan Special Fund); Loan for GMS-CAM \$20 million (Asian Development Fund); Loan for GMS-VIE \$30 million (Asian Development Fund).

Greater Mekong Region

Mekong Water Supply and Sanitation Project

<http://www.adb.org/Projects/project.asp?id=41368>

The impact of the TA will be sustainable and improved water supply and sanitation facilities, and safer hygiene practices for the urban population of nine secondary towns in the ECs in Cambodia, Lao PDR, and Viet Nam. The outcome of the TA is an agreed-upon design for a project. The main outputs will be: (i) agreement on the **water supply services** level for each town, supported by feasibility studies on treatment options, the financial implications and human capacity requirements; (ii) understanding of the policy and practices of setting user charges for WSS; (iii) a short-term sanitation investment plan and a long-term sanitation strategy for each town; (iv) an endorsed institutional framework and capacity building plan for public utilities; (v) endorsed private sector capacity building plan; and (vi) agreed-upon overall investment project. Grant for LAO \$1 million (Asian Development Fund, for approval in 2010); RETA \$300,000/\$500,000/\$400,000 (Water Financing Facility-NET TF/Regional Coop & Integration Fund/Japan Special Fund); TA \$1.2 million (TA Special Fund, for approval in 2011); Loan for CAM \$1 million (Asian Development Fund, for approval in 2010); Loan for VIE \$12 million (Asian Development Fund, for approval in 2010).

INTER-AMERICAN DEVELOPMENT BANK

New Proposed Projects

Source: Projects Gateway, Projects in Preparation

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

Bolivia

Misicuni Renewable Energy Hydroelectric Project CCLIP

<http://www.iadb.org/projects/project.cfm?id=BO-L1043&lang=en>

Category A, 2010. BLD Investment Loan \$43 million.

Brazil

TermoMaranhao Coal-Fired Thermal Plant

<http://www.iadb.org/projects/project.cfm?id=BR-L1192&lang=en>

The project consists of the design, development, construction, operation and maintenance of a 360-Megawatt (“MW”) coal-fired thermal generation plant in the state of Maranhão, northeast of Brazil (the “Project” or the “Plant”). The Project is part of the Programa de Aceleração do Crescimento (PAC) (regulated by law 11.488), a federal government program intended to accelerate the country’s growth through investments in infrastructure and certain state and federal tax-incentives. The Project will be allowed to produce and sell up to 2,759,400 MWh/year of energy per year corresponding to the equivalent assured energy capacity of 315-MW. Category A, 2009. Ordinary Capital Private Sector Loan A \$50 million.

Ecuador

Renewable Energy: Coca Codo Sinclair Hydro Project

<http://www.iadb.org/projects/project.cfm?id=EC-L1066&lang=en>

The Project Coca Codo Sinclair of 1500 MW, is an ecologically clean project, with very few negative effects on the atmosphere; between these they are mentioned solely the possible penetration of colons due to the opening of access roads to an area little populated, and the nonsignificant reduction of volumes in the cascade of San Rafael. The area of the project includes an active eruptive center, the volcano El Reventador that rises on the left border of the valley of the Coca, between valleys of the Salado one and of the Dué; the Malo river forms the South drainage of the volcano. The area of the project is constituted by the river basin of the Coca river until the Salty site (prey site), that covers a surface with 3 600 km²s. The river basin is bordered by the Central Mountain range with elevations like the smaller Cayambe, Antisana and other elevations. The of great volume average of the Coca river in the Salty site (site of location of pick up works) is of 292 m³/s, which corresponds to a specific contribution superior to 80 l/s/km². The daily volume with a guarantee of 90 of the time is of 127 m³/s. Category A, 2009. Ordinary Capital Investment Loan \$30 million.

Mexico

Support to Mexican Carbon Fund (FOMECAR)

<http://www.iadb.org/projects/project.cfm?id=ME-T1088&lang=en>

Support to the low carbon projects promoters with technical assistance in all the activities related with the Clean Development Mechanism project cycle. Category A, 2009. Ordinary Capital Sustainable Energy and Climate Change Initiative \$1 million.

Nicaragua

Support to Electrical Sector III

<http://www.iadb.org/projects/project.cfm?id=NI-L1036&lang=en>

Category A, 2009. Fund for Special Operations Investment Loan \$10 million.

Nicaragua

Support to Electric Sector IV

<http://www.iadb.org/projects/project.cfm?id=NI-L1040&lang=en>

The objective of this operation is to make investments and institutional strengthening in the areas of electricity generation, transmission and distribution for the public companies in the sector.

Category A, 2010. Fund for Special Operations Investment Loan \$14.9 million.

Venezuela

Tocoma Hydroelectric Power Plant (Supplementary Financing)

<http://www.iadb.org/projects/project.cfm?id=VE-L1026&lang=en>

The Manuel Piar Hydroelectric Power Plant (ex Tocoma) is under construction and it is the last hydroelectric development project in the Lower Caroní River Basin. The project includes the installation of 2,160 MW to generate an annual average energy of 12,100 GWh. Ten (10) generator units, of 216 MW each are predicted to begin operations between 2012 and 2014.

Category A, 2009. Ordinary Capital Investment Loan \$250 million.

AFRICAN DEVELOPMENT BANK

New Proposed Projects

Source: ADB Business Bulletin

<http://www.afdb.org/fr/documents/project-related-procurement/afdb-business-bulletin/>

Lesotho

Electricity Supply Project

The objective of the project is to support the investment in the electricity supply infrastructure to enhance electricity access rate and to ensure improved efficiency, to reduce peaking shortages and therefore assist the country to reduce poverty and achieve the MDGs. The proposed project will be the second major intervention of the Bank following the implementation of the Public Utilities Sector Reform Program (PUSRP) co-financed by the World Bank. It will consolidate the gains achieved through the PUSRP by expanding the customer base, reinforcing the distribution system and augmenting the energy supply. *Loan Amount:* UA 8,900,000 ADF. *Grant Amount:* UA 2,100,000 ADF.

Multinational (Guinea, Guinea Bissau & Gambia)

OMVG Energy Project

The project entails the development of two hydroelectric dams (Sambangalou and Kaléta) with a total capacity of 368 MW and the construction of a high voltage interconnection grid for energy evacuation, comprising 1700 km of 225 kV lines and 15 high voltage/medium voltage substations. This will be constructed in two phases. The first phase covers the construction of the Kaléta hydroelectric scheme and part of the interconnection line consisting of 1151 km of lines and 12 substations. When completed, it will enable the generation of electricity at the Kaléta dam and its transmission to four OMVG member countries. The second phase comprises

the development of the Sambangalou power station, as well as 549 km of lines and three substations. This will complete the interconnection scheme, scale up generation and ensure security of supply. *Loan Amount (Senegal):* UA 36.00 million, ADF. *Loan Amount (Gambia):* UA 23.00 million, ADF. *Loan Amount (Guinea Bissau):* UA 25.00 million, ADF. *Other Financing Sources:* UA 28.16 million, French Development Agency (AFD); UA 51.62 million, European Investment Bank (EIB); UA 132.49 million, Islamic Development Bank (IDB); UA 19.11 million, ECOWAS Investment and Development Bank (BIDC); UA 17.89 million West African Development Bank (BOAD); UA 57.33 million, World Bank; UA 12.74 million, Abu Dhabi Fund; UA 23.47 million, Kreditanstalt für Wiederaufbau (KfW); UA 44.41 million, OMVG Member Countries.

the last ADB Business Bulletin on the website is from January 2009.