

**CEG 1001 – EXTENSION OF GABAL EL ASFAR
WASTEWATER TREATMENT PLANT**

SECTOR	: SANITATION	PROJECT COST	228.33 M€
AFD DECISION (CEE)	: MAY 28 TH 2009	COFINANCIERS	AFRICAN DEVELOPMENT BANK (53.33M€)
LOAN AGREEMENT SIGNED ON	:	AFD LOAN	UP TO 50 M€
RATIFICATION BY PARLIAMENT	:	MATURITY/ GRACE PERIOD	20 YEARS/ 7 YEARS
EFFECTIVENESS	:	TYPE OF LOAN	SOVEREIGN CONCESSIONAL
1 ST DISBURSEMENT	:	DIRECT BENEFICIARY	CONSTRUCTION AUTHORITY FOR POTABLE WATER AND WASTEWATER (CAPW)
DEADLINE FOR DISBURSEMENT	:	DISBURSEMENT RATE	0%

Project Description: On Cairo East Bank, population is estimated at 10M inhabitants, which generate about 4 Mm³ wastewater per day. Raw water is currently treated in the existing East Bank four treatment plants: Berka, Shoubra-el-Kheima, Helwan, and Gabal El Asfar (the biggest wastewater treatment plant in Africa, with about 2M m³/d treated). Gabal el Asfar plant is currently operating below capacity and more than 300 000 m³/day are discharged directly to drainage channels without treatment – an ever increasing volume. This pollution has direct consequences: it threatens intensive agriculture sustainability in the Delta and drinking water production; it affects rural population health and threatens the North lakes ecosystem (Lake Manzala). The project will finance Stage II-Phase 2 plant extension. It will provide an additional treatment capacity of 0.5 to 0.6M m³/d for the existing wastewater treatment plant.

Implementing Agency: Construction Authority for Potable Water and Wastewater (CAPW), in charge of water supply and sanitation projects in 6 governorates including Greater Cairo. CAPW is a public executing agency under the Ministry of Housing, Utilities and Urban Development.

Other partners: Private operator selected through international competitive bidding, for a Design Build Operate (DBO) contract for the new treatment plant.

Final beneficiaries: Cairo East bank population and downstream population of the Delta.

Development objective: The project will improve environmental protection and reduce health risks due to discharge of untreated wastewater to drains and canals, which eventually end up in the Nile and Mediterranean Sea.

Project's specific objective:

- Reduce the discharge of untreated wastewater by 5 to 600 000 m³/day
- Reduce Green House Gas emissions through electricity generation from biogas

Content of the Project: The project will finance the extension (Stage II-Phase 2) of the wastewater treatment plant by 500 000 m³/day, with primary and secondary treatment, by replicating Stage I-Phase 1. The process will be a simple activated sludge treatment (no denitrification/dephosphatation) with sludge digestion and biogas production and the possibility of tertiary treatment. It will extend the plant's total capacity to 2.5 Mm³/d. The contractor will design, build, commission and then operate and maintain the plant for a 2 years period. The project will be located on the site of the existing Gabal el Asfar wastewater treatment plant.

Financing Plan:

Total cost of the project: 228.33 M€

Financing plan: AFD 50 M€, AfDB 53.33 M€, Government of Egypt: 125 M€

Project duration: 5 years (2010-2015)

Impact:

- Improvement of sanitation quality for Cairo East Bank
- Abatement of surface and underground water pollution in the Delta and Mediterranean sea (Project listed in "Horizon 2020 initiative" of the Union for the Mediterranean)
- Improvement of health conditions for rural populations in the Delta and Cairo East Bank