

Caruachi Hydroelectric Power Plant Project

VENEZUELA

REVISED VERSION*

SECTOR:	Energy
PROJECT NAME:	Caruachi Hydroelectric Power Plant Project (788/OC-VE)
TOTAL COST:	\$2,130.4 million
FINANCING:	
IDB	\$ 500.0 million
LOCAL	\$1,630.4 million
DATE OF APPROVAL:	November 24, 1993
GENERAL DESCRIPTION:	<p>The purpose of this project is to help meet the growing demand for electric power within the country, by harnessing the water resources of the lower Caroní River. At the same time, a subproject will be carried out to strengthen the institutional capacity of the Fundación para el Desarrollo del Servicio Eléctrico (FUNDELEC) and to support the electrical sector reform program being implemented by the government, (establishment of a suitable regulatory and institutional framework and of a pricing policy for electricity and fuels for electricity production), to encourage more efficient use of energy resources. As part of the project, a hydroelectric power plant with an installed capacity of 2,160 MW and average annual power output of 13,300 GWh for the national interconnected system will be constructed on the Caroní River. The project also includes the formulation of an environmental management plan and a study on integrated management of the Caroní River watershed.</p>
CIVIL WORKS:	<p>The main works to be carried out under the project are as follows: a main concrete 360-m gravity dam with a maximum height of 55 m from its foundation, with integrated intake structures and powerhouse; a 900-m right-abutment rockfill closure dam, with concrete slab face and a maximum height of 50 m, and a 4,200-m left-abutment earth-and-rockfill closure dam, with a maximum height of 45 m; a spillway with nine</p>

spans

and radial surface gates, with an aggregate 30,000 m³/sec-ond flow capacity; a 470-m powerhouse integrated with the main dam with space for 12 generating units (360 m) and an

assembly

bay (110 m); two transition dams with a 50-m intermediate buttress between the powerhouse and spillway; and a 238 km² reservoir, with a 91-m normal operating head and normal water volume of 3,520 Hm³. Other minor works are also included in the project.

CONSULTANTS:

Specialized consulting services will be engaged to carry out the technical, institutional and legal studies to support the institutional strengthening activities for the electrical sector.

GOODS AND EQUIPMENT:

Not applicable. The supply of electro-mechanical equipment will be procured through separate competitive bidding process from other sources of financing.

EXECUTING AGENCIES:

1) C.V.G. - Electrificación del Caroní C. A. (EDELCA)

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Director of Studies and Engineering

2) Fundación para el Desarrollo del Servicio Eléctrico (FUNDELEC)

Ministerio de Energía y Minas
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Caracas, Venezuela
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Director

* Please note changes in details for the executing agencies and the requirements for goods and equipment.