

POWER LINES AND SUB-STATIONS

Surface facilities - Orinoco Oil-Belt.

Client: SINCOR

Location: Anzoategui, Venezuela

Scope: IPGC

Disciplines involved: Architecture, Structural, Civil, Electrical, Mechanical, I&C engineering.



Description: Basic engineering for a Power Generator Plant with Gas turbines 3x20 MW, 13,8 KV, substation 34,5 Kv / 6,9 KV / 480 V, 10 MVA, distribution lines 34,5 kV for clusters, power generation plant 3x40MW, 13,8kV, power distribution of the main station. Length: 20.000 m. on concrete tower.

Design of infrastructure related to Surface facilities. Preparation of Documentation to develop EPC in several areas for the start-up of facilities. Also, the execution of topographical and geotechnical studies were included, master plan of execution and cost estimate with 10% accuracy. This work was divided into packages: Document endorsement, general services, design file for Surface facilities, pipelines, and telecommunications and Purchase orders for long delivery time equipment, preliminary contracts, EPC documentation, studies, and programs of service administration. Also, the Project included the basic engineering for road access and temporary facilities.

