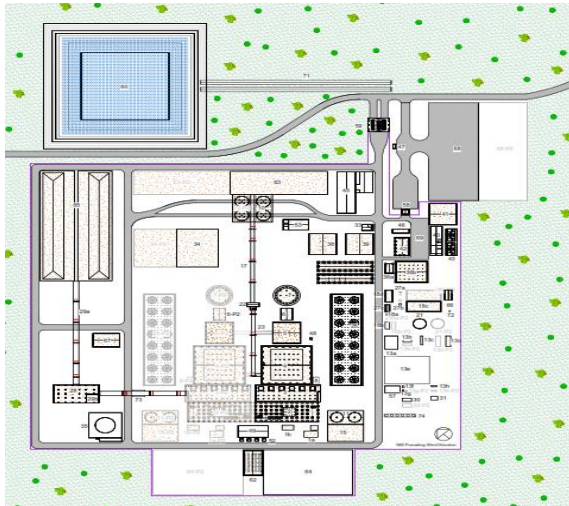


# Coal Power Plant Luena, Province Haut-Lomami, Democratic Republic of the Congo

Client name: CTL S.A.R.L.

Service area	Contract value	Project duration
Deposit Evaluation	confidential	2014 - 2015



## Project description:

Since the end of the ninetieth century the coal deposit Luena is known. Starting in the 1930ies, later in the 1970ies and 1980ies the deposit was extensively explored. Within a structure in the valley of Luena there are several independent basins of coal. It is estimated that about 70 million tons of coal are in place. Since beginning of the twentieth century coal was mined for the use as fuel for locomotives for the nearby railway. The usage of the coal for the future is to be burnt in a coal based power plant and the production of electrical energy. Within the tasks of a Bankable Feasibility Study for the power plant the client has given HPC the order to make a 3D-model of the deposit, a mine plan, the basic design for the power plant including transmission lines, substations and the necessary Environmental and Social Impact Assessment.

## Further project data:

- about 70 million tons of coal
- calorific value: about 4500 kcal/kg
- two blocks each à 280 MW CFB

## Purpose:

- development project, mine planning
- power plant planning
- Bankable Feasibility Study

## Our services:

- Feasibility Study for the coal fields
- construction of a 3D-model
- calculation of the resources according JORC
- calculation of the useable and mineable reserves
- technologic planning of the mining activities including recommendations for appropriate mining equipment
- basis design for the coal power plant including transmission lines
- Environmental Impact Assessment Study
- social study (hospital, school, potable water supply, briquette factory)
- economic and financial assessment (CAPEX, OPEX, NPV, IRR)
- planning and permitting according international and national regulations
- Bankable Feasibility Study

## Client benefits:

- comprehensive consulting and planning services considering all relevant norms and standards both international (world bank) and national from one supplier