



Installation of data monitoring buoys and a tide gauge

The Takoradi Thermal Plant is a 300 MW combined cycle plant made up of two 100 MW combustion turbines and one 100 MW steam turbine. Takoradi is situated in the South West of Ghana and is the second largest port of Ghana. Takoradi Thermal Power Plant is built in 1996. The combustion turbines run on either crude oil or natural gas.

Crude oil tankers transport the fuel to the plant. This oil is transferred from a single buoy mooring (SBM) to the plant by an underwater pipeline. Coastal zone management and coastal related activities require accurate hydraulic data. The availability of current and wave data is very limited for the Ghanaian coast. Present harbour design and pipeline design, in this area, is based on limited data. In that respect a measuring campaign can provide crucial information for all coastal and sea related projects.

The following services were provided:

- Expert advice on monitoring campaign for hydraulic, hydrographic and soil parameters
- Installation of Endeco Wave Track buoy
- Installation of Marco Flow current meter connected to an EMM data telemetry
- Installation of tide gauge
- Data processing of monitoring data

Client
Volta River Authority

Location
Takoradi, Ghana

Date
1996 - 2001

Services
Installation of wave buoy, tide gauge and flow current meter, monitoring and processing data.

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