



Georges Rakotomanga started to use **Xbee** in the electric power plant of Ambohimambola in July 2008. This power plant is managed by **Hydelec Madagascar**, a Malagasy corporation created in 1999 with the objective to research and implement to produce hydraulic, thermal and wind generated energy.

This power plant is located in the Eastern suburbs of Antananarivo. The main purpose of this plant is to provide production for the **Jirama** plants to satisfy peak demands in the Antananarivo interconnected electric network.



It is an auxiliary plant that works about 4 hours per day only.

The technical infrastructures include:

- ✓ The engines and control room => 9 **MTU** generators amounting 1,760 kW with 9 control boards, one board common to the different auxiliary engines;
- ✓ The underground electric lines;
- ✓ The access; and
- ✓ The main storage tank _ capacity of 160,000 liters of diesel oil _ and a daily tank of 4,500 liters.

After a few months of regular use of the **Xbee** biotechnology, Mr. **Rakotomanga** has been able to observe an improvement of the generators performances by +17.73% (around 200 kW per generator) and a reduction of the fuel specific consumption by 2.21%.



Engines and fuels guarantees:

α **Xbee** is at least recognized by some of the most important engines manufacturers.



α On the other hand, **Xbee** respects the European regulation EN 590 Diesel norm and CSR 500 IFO 380 norm.

Hydelec Madagascar S.A.

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