

SETTING UP OF THE BIODIESEL PLANT

Odin Energy | SANTA MARTA | COLOMBIA

ENVIRONMENT

Odin Energy Santa Marta S.A. The company was incorporated under Colombian law, its objective is the refining, transportation, storage and commercialization of Biodiesel from palm oil and its by-products. It is located in Santa Marta, Magdalena, Colombia. Colombia is the 4th producer of palm oil in the world. The Government of Colombia has demonstrated its commitment to a cleaner environment through the enactment of Biofuel laws and incentives for the private sector to lead the industry quickly and locate Colombia as a leader in Biodiesel in this continent.



EXECUTION

12

WEEKS



WORK TEAM

6

ENGINEER/TECHNICIAN



COMPOSITION

 70% Labor
 30% Materials

DETAIL

2007

SYSTEM DESCRIPTION

The system is controlled through two PLC CONTROL LOGIX 1756-L61, the periphery of devices is communicated through ETHERNET networks, as well as the SCADA system.

Both analog and digital signals are commanded through POINT I/O remote racks.

The motors are driven through Power Flex speed shifters, SMC 3 soft starters and 190E line direct type starters. All of them from the ALLEN BRADLEY family.

The PLC programming was carried out using the RS LOGIX 5000 version 16.03 tool.

The SCADA development was carried out with the RS VIEW 7.3 tool and consists of a start screen, and seven process screens (one per unit), an auxiliary services screen and an alarm screen. The trends and records of all the variables managed by the system are also displayed.

"The system generates biodiesel from palm oil and methanol and can be fully operated through the automatic control system implemented."

The development allows Odin to have the expected production results and the corresponding online information. The plant produces 36,000 tons/year of high quality biodiesel, under the corresponding regulations and compliance with biofuel standards.

