



Success Story

## Bottom Loading Terminal



Customer : OiLibya  
 Industry : Oil & Gas  
 Order date : 02/2009  
 Completion : 02/2010

## Executive summary

Formerly known as Tamoil Africa, OiLibya is a state owned company that is present in 19 African countries: Libya, Egypt, Senegal, Côte d'Ivoire, Cameroon, Gabon, Kenya, Mali, Burkina Faso, Niger, Chad, Eritrea, Uganda, Ile de Réunion, Morocco, Tunisia, Ethiopia, Sudan, and Djibouti.

OiLibya operates over 1,260 service stations, more than 20 fuel terminals and depots, 7 lube oil blending plants, and 36 airport fueling facilities around the African continent.

In 2008 OiLibya acquired 100% of Shell's Ethiopia and Djibouti petroleum retail business. In the same year, OiLibya finalized the acquisitions of ExxonMobil subsidiaries in Morocco and in Tunisia.

OiLibya is now upgrading and adding terminal automation at many of its facilities, including Rades, Tunisia. A project has been initiated on February 2009 to automate the bottom loading terminal.

PETROGAS Systems has been selected as main contractor, skids manufacturer and automation & safety systems integrator.



## Project Overview

### Application

- Bottom loading with vapor recovery
- SCADA system
- SIL3 Certified Safety System
- Terminal Automation System
- Pump Sequencing System

### Loading Skid Properties

- 4 bottom loading arms
- 1 vapor recovery arm
- Turbine Metering Technology
- AccuLoad III.NET controller
- Safety SDV
- Overfill & retained product control unit
- Grounding control unit

### Safety system

- 1 HIMA H41-q controller
- Redundant Power Supply

### Communication

- Safety System controllers via Safeethernet
- PLC/SCADA via Modbus RTU
- SCADA/Safety System via OPC

### Services

- Loading skids design & manufacturing
- Safety System design/integration
- Terminal Automation System design/integration
- SCADA design/integration
- Commissioning, start-up, training & maintenance
- Proving of Turbine meters

