



Success Story

Bottom Loading Terminal

ILOT 3

ILOT 2

Customer: Vivo Energy - Shell
 Industry: Oil & Gas
 Order date: 03/2012
 Completion: 03/2013

Project Overview

Application

- Bottom loading with vapor recovery
- Additive Storage
- Additive in-line injection
- SCADA system
- SIL3 Certified Safety System
- Terminal Automation System
- Pump Sequencing System

Loading Skid Properties

- 4 bottom loading arms
- 1 VOC arm
- Positive Displacement Metering Technology
- AccuLoad III.NET controller
- Mini-block injectors
- Safety SDV

Safety system

- 4 HIMatrix F30 Controllers
- Redundant Power Supply

Communication

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

Services

- Loading skids design & manufacturing
- Additive Injection skids design & manufacturing
- Safety System design/integration
- TAS design/integration
- SCADA design/integration
- Proving of PD meters

Executive summary

Vivo Energy is a company formed by a partnership between Shell, Vitol and Helios Investment Partners. Vivo Energy is present in 14 African countries: Botswana, Burkina Faso, Cape Verde, Guinea, Ivory Coast, Kenya, Madagascar, Mali, Mauritius, Morocco, Namibia, Senegal, Tunisia and Uganda.

Vivo Energy Tunisie, formerly Shell de Tunisie, has been present in the country since 90 years. Today, Vivo Energy employs over 2,500 people directly and indirectly across the country, and operates a network of 158 service stations serving around 150,000 people per day.

Vivo Energy is now upgrading and adding terminal automation at many of its facilities, including Rades, Tunisia. In March 2012, a project has been initiated to automate the bottom loading terminal / additive injection with skids that are compliant with Shell's engineering standards.

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



