

## Fuel Storage and Distribution Terminal - Park Tank

by [Walter Schimmelpfeng](#) / ⌚ 2021-01-04 17:41:11 / International /  
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Year of commitment : 2019



2 000 000 €

**Builder**

Petrobahia S/A

## GENERAL INFORMATIONS

Project of Fuel Storage and Distribution Base, in Itabuna, Bahia, Brazil, with premise of use of technology and project decisions aimed at increasing productivity, high performance operation, sustainability, flexibility of operation and a fast, clean and waste-free work.

It stands out as sustainable premises: the use of state-of-the-art automation technology, telemetry, loading and unloading systems, floating seals in tanks, LED lighting, pump drive system with frequency inverter, line pressure transmitters, collection and reuse of rainwater and biodigesters in sewage treatment.

The average time for construction and conditioning of a bauna-sized terminal is two years. The estimate for this terminal is one year.

### Progress Status

Delivered

### Data Reliability

Self-declared

### Sustainable Development

#### Attractiveness :

A fuel storage and distribution base is the where distributors receive raw materials from refineries and power plants to be stored, processed and distributed in accordance with the fuel quality specifications determined by the European National Petroleum Agency. The difficulties normally encountered in terminals are productivity in the various stages of operation, the control quality, loss control, as well as the risk of contamination Environmental.

#### Well Being :

The project optimizes the service to drivers and companies in the fuels integrating technology and comfort of the designed space. Automation software will be installed that manages the productivity of Base by scheduling truck loading and unloading and the journey of the driver and truck within the base optimizing and reducing time at each step of the various operations. With an infrastructure to make the driver experience the most as pleasant as possible, customers will rely on a living area and Locker room.

The technology used in the "DISCHARGE SKID" brings an operation of 60m<sup>3</sup> in approximately 24 minutes, in addition to enabling the identification of the product by density,

avoiding contamination between products and ensuring accuracy in the volume received.

#### Social Cohesion :

We were very careful about the impact of the construction stage on the neighboring population. Since the project stage, a committee of several representatives of the local community and regulatory authorities was formed where several care and protocols to be taken care of during construction were discussed and approved. Several meetings were held with the neighbors where there was educational training aimed at the care of the environment. This brought the construction a great synergy with the local population and their representatives.

#### Preservation / Environmental Improvement :

All tanks have connections and gates valves that allow the exchange of stored product, making the flexible storage for existing demand.

#### Responsible use of resources :

Design decisions, material specifications, compatibilization of projects and construction logistics were planned to reduce the construction time and quick start of operation. The average time for construction and conditioning of a terminal of the size bauna is two years. The estimate for this terminal is one year. After 5 months of work, it was 58% completed.

## Testimony / Feedback

*The work of this terminal was a great success for several reasons. Historically we have no reference of a work of this size performed in such a short time, 6 months. We can highlight as one of the relevant points the level of commitment of the project team and planning of the work. The goal was to carry out a fast, low-cost construction, ensuring minimal interference to neighbors, with minimal waste and waste generation. We were careful from the moment of earthmoving to pre-operation.*

*Another great detail was the care of the team of workers. Because it did not have a qualified workforce in this region, it was necessary to perform several professional trainings for this team, which also opened opportunities to improve the local workforce. We carried out a great movement of relationship with the neighborhood with the objective of working on the concept of care for the environment and the impact of the operation of the terminal.*

*Undoubtedly a rewarding experience for all those involved in this construction.*

## Governance

Petrobahia S/A

Holder Type : Private Company

Petrobahia S/A

Builder Type : Other

Manager / Dealer Type : Private

## Sustainable Solutions

Floating Seal

Description :

The use of floating seals in tanks decreases the loss of fuel by evaporation, reducing the emission of pollutants to the environment.

- o Other
- o Renewable energies



<https://www.romaotecnologias.com.br/>

Company (es) Website :

Company (es) Website :

Sewage treatment system

Description :

Use of biodigesters in sewage treatment.

- o Water management



<https://www.acqualimp.com/produto/biodigestor-acqualimp/>

Skid technology

Description :

Sealed drainage of tanks and trucks to reduce the potential for contamination of the environment.

Reduced energy consumption with lighting led, pump drive system with frequency inverter and line pressure transmitters.

rainwater catchment system

Description :

It has rainwater collection, with use in the toilets and gardens.



## Photo credit

Rafael Menezes

### Contest

### Reasons for participating in the competition(s)

A construction planned to contribute to the environment, through the design of the project, construction planning, relationship with the neighborhood, application of technologies aimed at a sustainable building, but without losing the premises budget, deadline, zero accident, zero residue and ensure excellence in operability.

### Building candidate in the category



Sustainable Infrastructure Grand Prize



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