

## ShowCase

### *Gazbee, tank remote monitoring managed service.*

#### Products

Gazbee is a managed service designed to allow petroleum and other liquid suppliers to maintain high fill efficiency and optimize distribution routes.

Whatsbee is a quick development platform to integrate IoT devices based on standard protocols.

#### Results

Gazbee is more than just a tank monitoring device. It is an end-to-end service delivery platform. Gazbee provides access to tank level data and reports via a web-based and highly scalable, management portal.

#### Project Details

In order to market the service, Gazbee is currently concluding an agreement with an important company specializing in engineering projects in service stations.

#### Introduction

People who use fuel tanks, often realize that fuel has run out precisely during the coldest days of winter, which is the time of highest consumption. Statistically this happens to many people, so this is also the moment when suppliers have less availability.

#### Challenges

The project's main objective was to find a very low cost hardware based solution, with a great simplicity of use and minimum recurring communication costs in order to market it as a managed service.

In the first stage of the project we designed devices based on Wifi networks to cover the monitoring of those tanks which are in areas with electric supply and Wifi coverage with no communication costs.

We are currently developing devices that run on batteries, and that use LoraWan technology which allows connectivity in large areas, with very low fixed costs and low energy consumption.

#### Solution

Gazbee not only solves an everyday problem, but also provides many additional advantages to fuel distributors:

- **Deseasonalization** of distribution: fuel distribution activity is highly concentrated in cold weather months.
- Reduction in delivery costs through a decrease in unnecessary deliveries, avoiding the run-outs and optimizing the distribution routes.
- Improve the fill efficiency: the possibility of remotely monitoring allows users to decrease the quantity of fuel deliveries per customer.
- Savings on stocking and unstocking operations depending on the evolution of fuel prices.



## References

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