

# Case Study

Delivering a a fully integrated, low-maintenance and greener refuelling solution.

## OVERVIEW

In 2025, a major player in the civil engineering and infrastructure industry started construction on a wind farm project near St Lawrence in Central Queensland—a remote, off-grid site requiring a reliable and sustainable fuel supply for service vehicles. With no existing infrastructure and a strong focus on environmental performance, the company turned to Fuelfix for a smarter solution.

Leveraging a history of successful collaboration, Fuelfix delivered a 30FF Solar Tank system—a fully integrated, low-maintenance, and greener hydrocarbons storage solution.

## CHALLENGE

Like in many civil construction projects, the site presented several logistical and environmental challenges:

- **No existing fuel infrastructure**
- **Remote location**, 20 km south of St Lawrence, with no access to mains power
- **Need for a portable, secure fuel storage system, with sufficient capacity to ensure continuous operations**—even during emergency situations such as extreme weather events that could disrupt fuel supply chains
- **Requirement for real-time fuel tracking and traceability**
- **Minimal downtime or maintenance requirement**

Our client needed a solution that could operate independently, reduce environmental impact, and streamline fuel management for multiple service vehicles.



LOCATION	Lotus Creek Wind Farm, Central QLD
YEAR	2025
INDUSTRY	Civil
FOCUS	Supply of energy efficient hydrocarbons infrastructure for the refuelling of service vehicles
SOLUTION	Solar and battery powered fuel tank with LV/HV dispensing solution

## SOLUTION

Fuelfix deployed its innovative **30FF Self-Bunded Solar Tank**, equipped with:

- 3kW roof-mounted solar array
- 5kW battery storage
- LV/HV dispensing system
- Fuel Management System (FMS) and Automatic Tank Gauging (ATG)

This solar-powered system eliminates the need for diesel generators, offering a **completely energy-independent and low-maintenance solution**. Installation and commissioning were completed within a day, with the system operational immediately.

Over 12 months our Go-Greener solution will enable the client to save:



**6,745L of fuel\***



**\$17,682 of fuel and maintenance costs\***



**18 tonnes of CO2 emissions\***

\*Based on the assumption that a 10kVA diesel generator operates continuously at low load with fuel cost of 1.50 AUD per litre, and a service cost of 500 AUD every 500 hours of operation.



## VERDICT

The 30FF Solar Tank has delivered significant benefits for the civil engineering company:

- **Zero emissions and no fuel costs from generator use**
- **Reduced operational downtime and servicing requirements**
- **Full visibility and control over fuel usage via FMS**
- **A tangible contribution to the project's renewable energy and sustainability goals**

By replacing a traditional 10kVA diesel generator, the system is expected to deliver substantial fuel and CO<sub>2</sub> savings over the project's duration. Fuelfix's solar-powered solution is not only helping the company meet its environmental targets but also setting a new benchmark for off-grid fuel infrastructure in Australia's civil and renewable sectors.

This initiative is in line with our [Two Pathways, One Goal Strategy](#) and our commitment to enable our customer's transition to a cost-effective, cleaner energy future.

We provide flexible and innovative energy solutions to assist our customers to maximise their fuel efficiency, minimise their operational costs and reduce their Scope 1 and 2 emissions.

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