



SOLAR FUEL CUBE CASE STUDY

How Fuel Proof® just made their bestselling fuel tank even better



OVERVIEW

Since it was first designed and manufactured over twenty years ago the Fuelcube has evolved through multiple versions, fitted with various fuel dispensing systems, but always with the same objective: make refuelling easier.

Jointly manufactured by expert fabricators and automated robot welding arms, Fuel Proof's signature Fuelcube tank is available with a hand pump, a 12/24-volt battery-powered pump or a 230-volt mains-powered pump.

Now, with a focus on making their customers' lives ever easier, Fuel Proof have developed their most user-friendly diesel tank yet. The self-powered, always-charging 12V Solar Fuelcube.

"The Solar Fuelcube is the latest leap forward for our bestselling diesel tank. Beyond fuel security, our customers' top priority is a fuel tank which is easy to use. The Solar Fuelcube gives its users the best of both. All the robust security of our time-tested, double-walled steel design, now with a lid-mounted solar panel efficient enough to provide reliable, renewable, year-round electric diesel dispensing at the flick of a switch. All the power that our latest Fuelcube needs is entirely solar – and therefore self-sustaining, passive, effortless, and free."

Andrew Hargreaves
Fuel Proof MD

Fuel Proof® Solar Fuelcube 900 Litres





PRODUCT DEVELOPMENT

- With prior expertise in solar-powered fuel dispensing fitted to their Fuelstore tanks, the Fuel Proof Production team investigated a similar solar system to integrate into their bestselling Fuelcube design in 2023
- The Solar Fuelcube was prototyped in late 2023, incorporating new parts laser-cut and fabricated in-house by Fuel Proof's Design & Manufacturing team
- Solar charging tests of the new design proved successful – with the tanks' full 900-litre contents able to be emptied twice per day over a 10-day period using only its own self-contained solar charge
- The Solar Fuelcube entered full production in winter 2023, with identical models available both for sale and hire – and all new hire Fuelcubes solar as standard

RESULTS



2X

During trials we were able to empty the full contents of our 900-litre Solar Fuelcubes twice per day, over a 10-day period...



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...With zero need to charge the tank's 12V battery, even in the winter. Incredible results for such short days and limited sunlight!



500

Within the first year of ownership, our new Solar Fuelcube could save users up to £500 in electricity, downtime and new batteries.*

CONCLUSION

The Fuel Proof Solar Fuelcube's design and performance solves multiple end-user issues. No flat pump battery to prevent refuelling. No physical exertion involved in dispensing fuel via hand pump. No blown electric pumps caused by users connecting battery leads incorrectly.

Making fuelling easy, the Solar Fuelcube reduces the risk of users putting dirty fuel into machinery, avoiding damage and downtime on-site. Making fuelling easy also massively reduces the risk of diesel spillages and environmental contamination.

Engineered for absolute ease of use, the Solar Fuelcube elevates Fuel Proof's bestselling tank design into a truly industry-leading, push-of-a-button diesel refuelling system. It presents users, resellers and hire providers with the ultimate professional refuelling solution – increasing value, efficiency and credibility for its users' brands and operations.

*Example saving based on frequent use

