PERFORMANCE & EFFICIENCY CASE STUDY:

i500 WELFARE UNIT

MORGAN SINDALL INFRASTRUCTURE

Following a prolonged period of development, operating on-site and working closely in partnership with our client, the performance and efficiency of Groundhog's i500 mobile welfare unit has been optimised to deliver significant reductions in carbon emissions and total running costs.

SUMMARY

CLIENT
Morgan Sindall Infrastructure

LOCATION
Shiremoor, Newcastle

PRODUCT
i500 twin axle mobile unit

SECTOR
Rail

DURATION
From 30 May 2023 - ongoing



> It was important for us that we were able to collaborate with Groundhog to develop a mobile welfare unit that met our needs in terms of helping to cut our carbon emissions and contribute towards improving the environment, as well as creating a welcoming and enticing environment for our colleagues."

Emma Tongue, Product Innovation Manager, Morgan Sindall Infrastructure

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MORGAN SINDALL MAGNOR PLANT

OVER A 30 DAY PERIOD THE i500 DELIVERED SIGNIFICANT SAVINGS:

0Kg Carbon Emissons

£0 Fuel Costs

£0 Refuelling Costs

0L Fuel Usage



LOCATION

SHIREMOOR, NEWCASTLE

MORGAN SINDALL INFRASTRUCTURE

OVERVIEW: MORGAN SINDALL INFRASTRUCTURE SITE - SHIREMOOR, NEWCASTLE.

"We were keen to ensure that colleagues who use the mobile units on a daily basis as their main workspace have a quality and inclusive environment, just as other colleagues do in our more permanent buildings.

The foundations of these units provided us with that. Not only are they robust and a quality product, Groundhog's approach is flexible and collaborative. We also liked Groundhog's drive to improve and adopt innovations. These all influenced our decisions."

FEEDBACK:

"As part of our decision making process, we took feedback from the engineers, end users, and our fitters in terms of what was good and where we needed to make improvements. By working with Groundhog, we could incorporate these into the unit. All of these were contributing factors to why we purchased the i500."

30 DAYS RUNNING SUMMARY:

FOR PERIOD 30 MAY - 29 JUNE 2023

SYSTEM OVERVIEW SUMMARY

Solar	Generator
62 kWh	0.0 kWh

Consumption
61 kWh

CONSUMPTION SUMMARY

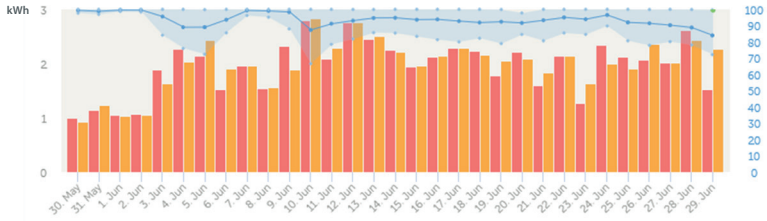
From Battery	From Solar
24 kWh	37 kWh

ENGINE POWERED BATTERY CHARGER RUN TIME SUMMARY

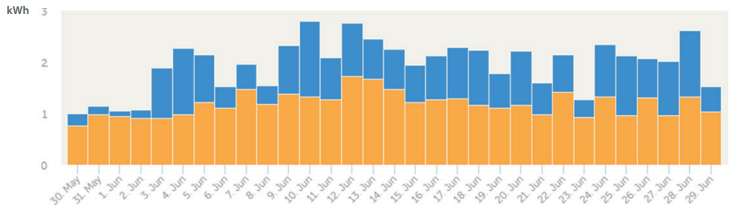
TIME STOPPED: 100%

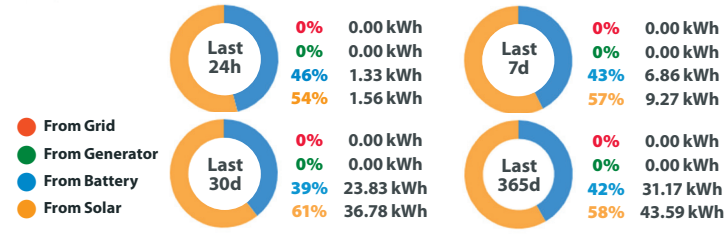
RUNNING TIME: 0%

SYSTEM OVERVIEW



CONSUMPTION







Well equipped canteen



Spacious seating area

CONCLUSIONS: KEY TAKEAWAYS

"By increasing the waste tank sizes on the unit and ensuring the waste water from the sinks feeds through into the waste tank, we have been able to reduce the number of vehicle movements and frequency of servicing, which all contribute to our carbon reduction goals.

The VRM telemetry system has enabled us to understand more about how the units are used, encouraging behaviour changes with our end users.

We can also undertake diagnostics, understand why things may not be running as effectively as they are designed to and, if required, we have the right parts ordered and delivered should anything need fixing.

The unit, with its solar power and rainwater harvesting, directly contributes to our carbon and wider environmental goals, as well as indirect savings from reduced vehicle movements."

Emma Tongue, Product Innovation Manager, Morgan Sindall Infrastructure.

To learn more about Groundhog's welfare products:
TEL: 01639 641 166 | WWW.groundhog.co.uk

Mobile Units have obtained type approval with VCA