

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 Genquip 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 Genquip 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

**MORGAN
SINDALL**

INFRASTRUCTURE

**MORGAN
SINDALL**

MAGNOR PLANT

OVER A 30 DAY PERIOD THE i500 DELIVERED SIGNIFICANT SAVINGS:

 **0Kg**
Carbon Emissions

 **£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, Genquip Groundhog's approach is flexible and collaborative. We also liked Genquip 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 Genquip 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

62 kWh



Generator

0.0 kWh



Consumption

61 kWh

CONSUMPTION SUMMARY



From Battery

24 kWh



From Solar

37 kWh

ENGINE POWERED BATTERY CHARGER RUN TIME SUMMARY

TIME STOPPED

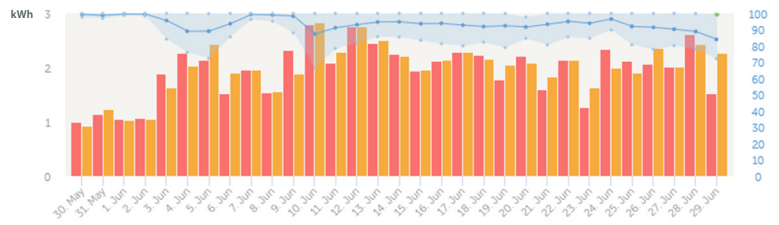
100%

RUNNING TIME

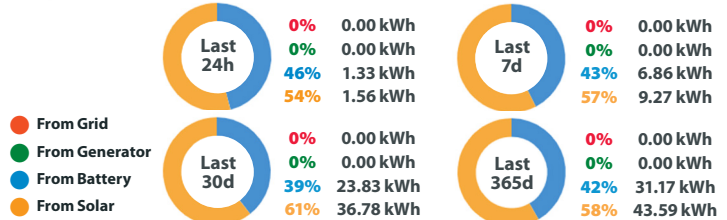
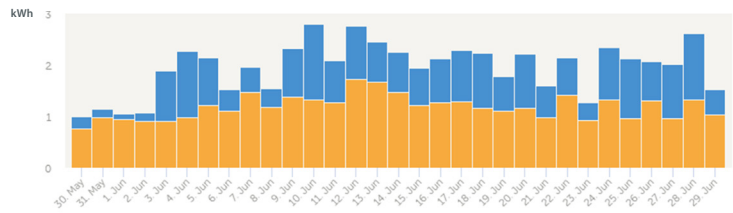
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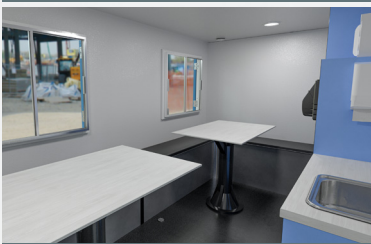
SYSTEM OVERVIEW



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 Genquip Groundhog's welfare products:

TEL: 01639 823484 | www.groundhog.co.uk



Mobile Units have obtained type approval with VCA