

'Zero Carbon' Satellite Welfare Cabins

Zero Carbon satellite welfare cabins are helping to lower the project's carbon footprint. Great potential for all construction sites.

Carbon monitoring and reduction is a key performance indicator on the scheme. The project team has procured several "Zero Carbon" welfare units as an alternative to the traditional diesel powered units. As well as lowering the project carbon footprint, use of the cabins helps to improve air quality in the vicinity of the welfare units and they also produce less noise which is an added benefit.

The cabin manufacture includes Solar PV panels and hydrogen fuel cell technology. These zero carbon in use power sources in conjunction with a power management system and battery bank storage mean these units are the first of a kind. Power to run the heating, sockets, kettle and microwave comes instantly from the battery bank and when relocating the cabin the battery power can also be used. Due to the solar panel coverage the cabins have been proven to use NO hydrogen on a short sunny winter day.

Initial trials on site for several weeks showed the cabins used no hydrogen meaning they were running completely on solar power.



Key Points

1. Instead of the traditional diesel units, solar PV panels on the roof generate sufficient power to charge the batteries
2. Hydrogen fuel cells provides backup power.
3. First used on a Highways project and the initial trials of two cabins have proved very successful.

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