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GEORGE LESLIE

Carbon Capture

Hybrid Power On site

What is Hybrid Power?

Hybrid Power is an alternative source of sustainable energy which can be used in conjunction with an existing generator power set up. When in use, it has a wide range of benefits, including commercial but more importantly a carbon reduction impact. On Scottish Water projects, we use SLD's Hussh Pod, and for conventional projects we use Sunbelt's BSU.

How does the Pod/BSU work?

The Pod/BSU can be connected to an existing temporary power supply, ie generator set or pump power pack. The power supply charges up the Pod/BSU to 100%, and when at full capacity the Pod/BSU can take over providing the power supply. The generator or power pack will then shut down until the Pod/BSU reaches around 15% capacity. At this point, the generator/power pack will restart, become the source of power and also re-charge the Pod/BSU back to 100%, when the cycle begins again.

The Pod/BSU can also be set to start at a time designated by the project team.

Where have George Leslie used it?

George Leslie began using the Hussh Pod in January 2022, at a project in a built-up residential area in Shawlands, Glasgow to supply power to the welfare facilities in an effort to reduce noise pollution. This has been replicated at a number of other sites during 2022 and 2023, all supplying power to welfare. The Pod has also been used on one project to provide power to temporary pumps.

The BSU has been used at James Watt Dock also to supply power to the welfare accommodation.

What have been the benefits to date?

Although the equipment is an additional cost on top of the hire of the generator or power pack, this is far outweighed by the overall benefits found on projects. Due to the battery power, when the Pod takes over there is no fossil fuel being used. On average, we have found we are saving over 55% of fuel, or around £800 per week.

In relation to the Pod set up for the temporary pump, there was a 90% saving on fuel costs, approx £1,500 per week. This also allows our project teams to work more efficiently by not making continued visits to the project, ie for refuelling.

However, the main benefit is in the carbon saving. On average, we are saving over 2.5tCO_2e per week, on every Hussh Pod in use. For those reasons, the George Leslie Board have confirmed that the Hussh Pod or BSU are to be adopted on all our sites from this point forward on both our Scottish Water and Conventional projects.