



AMCO GIFFEN

CASE STUDY

HYBRID POWER TRIALS FOR PROJECT SITES

The eco-friendly solution reduced site carbon emissions by 90%

The trial took place at Cefn Mawr Viaduct, a remote site without grid connections. We needed to run 24-hour power for welfare, facilities and overnight security.

SUSTAINABLE SOLUTION

A combination of Hydrotreated vegetable Oil (HVO) fuel and a battery storage unit instead of conventional red diesel.

The HVO fuel is manufactured from renewable materials with an overall footprint 94% lower than diesel or gas oil.

CHALLENGE

Site Manager, Lewis Cryer joined together with supply partner Speedy to develop this hybrid alternative solution .

The battery storage unit is the innovative part of the set up, completely changing the way power is delivered. The generator runs the site and charges the battery during the day. Then programmed to switch over to night time power from the battery source.

Results showed this method reduced generator run-time by 49%; reducing air emissions, improving air quality and noise free for project neighbours.



OUTCOME

We've now made it our policy to use this solution where practical on all site compounds. We've also produced a video with Speedy to explain how it works and the benefits for colleagues and other stakeholders. You can find the video at <https://vimeo.com/566494826/42e157797c>