



## Cocker-mouth's New £11 million Hospital and Health Centre Invested in 'Essential Power' generator deployed by Workspace Technology

The old community hospital building in Cocker-mouth was over 100 years old, planning permission was granted for a new £11 million purpose built hospital. Providing medical, nursing rehabilitation and end of life care to enable local people to be cared for close to their homes the services were being delivered from temporary accommodation following the floods which devastated Cocker-mouth in November 2009. The new hospital would combine GP and community hospital services on one site.

Due to the new development programme Cocker-mouth Community Hospital took the opportunity to invest in a new 'essential power' generator to support life supporting equipment and services for the new facility.

Workspace Technology worked closely with the Cumbria NHS Trust project team and electrical contractors to supply, deliver, install and commission a 160kVA diesel generator set. A bespoke solution was designed to meet the demanding specification. Based on Workspace Technology's WTL160 generator series a 160kVA/127kW prime rated, Automatic Mains Failure generator set was designed complete with a Stage 3A IVECO NEF67 TM 3A Diesel Engine, Mecc Alte ECO-38 2S.

Due to the location of the generator set within an underground plant room, there was only one external wall to supply air inlets and outlets, so a bespoke modification to a standard Workspace Power Generation generator set was engineered. This was achieved by fitting an 90° air outlet turning duct complete with noise attenuation at a high level within the plant room and at ground level, low level air inlet attenuators.



### Standards & Accreditations





This was to allow operating air for the generator and to achieve an external noise level of 65dBA@1 metre. Eight metres of twinned wall stainless steel exhaust system was installed horizontally across the back of the plant room and exited vertically to open air, this was weather capped to prevent the ingress of rain water. The standard enclosure was supplied with a 250 litre base fuel tank delivering a run time of 9 hours at 80% load.

The WTL160 generator is controlled by a DeepSea 7320 controller and fitted with a 250A set mounted Motorised Circuit Breaker.

Workspace Technology's Remote Critical Power Monitoring service was also installed which enables remote monitoring of the generator set and fuel system. This is an essential service for organisations such as Cockermouth Hospital that demand continuous and reliable power availability. The Critical Power Monitoring Service delivers 24x365 monitoring for Cockermouth Hospital helping identify faults, track system utilisation and help avoid the failure of backup power technology, which is often caused by avoidable issues for example empty fuel tanks or low batteries.

Workspace Technology's Remote Critical Power Monitoring ensures that Cockermouth Hospital generator system will start when needed, reducing on-site visits and delivering peace of mind utilising Deep Sea Electronics DSEWebNet technology.

The project team provided a complete installation service as part of the generator deployment. This included the decommissioning of the existing generator system and relocation to an alternative site. Our specialist engineers safely recovered 45 gallons (200 litres) of fuel which was 'polished' and recycled back into the old generator for continued use.

The new generator set not only provides reassurance that there will be continuity of critical services but the hospital are now operating more efficiently and have future proofed their power infrastructure.



## Remote Critical Power Monitoring Features

- Full remote control and monitoring in real time
- Monitor & control of single set or multi-set load sharing systems
- Configurable reporting options
- Global positioning and generator set tracking
- Password protection access levels
- Fuel management
- Ability to view multiple sites from our central service location
- Enhanced security via GPS tracking



## Interested in finding out more?

Our friendly team are on hand to take your call on **0121 354 4894** or send us an email at [sales@workspace-technology.com](mailto:sales@workspace-technology.com)

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