Case Study
Wyre Forest
District Council

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Wyre Forest District Council Deploys New Modular Data Centre at its Green Street Depot to Support I.T Services for the Next 15 to 20 Years.

Wyre Forest District Council covers the market towns of Bewdley, Kidderminster and Stourport-on-Severn along with many outlying villages; set amid a patchwork of rolling hills, meandering rivers, steep wooded valleys, orchards and ancient woodlands. The District Council looks after a wide range of services for its residents including waste, street and parking management as well as planning services.

The Challenge

As part of the redevelopment and renovation of historical buildings at the District Council's Green Street Depot in Kidderminster, imminent demolitions were about to impact on the existing data centre driving the need to construct a new facility. A number of options were explored including the renovation and conversion of an old locker room, a Prefabricated Data Centre and a Modular Data Centre construction within an existing storage building.

Workspace Technology worked closely with the Council to help them identify the most appropriate solution that would support their ongoing I.T requirements for the foreseeable future. The ability to meet short timescales were key to the success of the project in order to avoid redevelopment delays and potential disruption to the up and coming local elections.

The District Council opted for Workspace Technology's industry leading Modular Mobile Data Centre Solution which would be located within a corner of a hanger previously used for the storage of tractors and lawnmower equipment.

The Solution

Workspace Technology's Modular Data Centre solution was ideal for erection within the open hanger providing the District Council with a clean, secure and fast alternative to traditional construction techniques.

Solution Benefits

■ **Server Ready** - The Modular Data Centre installation was fully wired ready for instant deployment of servers on practical completion.

■ **'All-In-One' Self-Contained System** - Included the installation of all power, cooling and technical services to deliver a complete functional data centre.

■ **Energy & Environmentally Efficient** - Designed using Workspace Technology's EcoDesign™ best practice principles to reduce carbon emissions through design and technology. The deployment of MultiDenco units combined with aisle containment delivered an excellent annualised PUE of circa 1.25.

Standards & Accreditations

ECA REGISTERED MEMBER

SSIP

ACS REGISTRARS Quality Assurance ISO 9001 UKAS 229

ACS REGISTRARS Environmental Assurance ISO 14001 UKAS 229

To address the proximity of the data centre to vehicles and fuel storage it was imperative that the building was suitability protected. Workspace Technology selected ModuSec the UK's industry leading fire rated pre-engineered composite panel system to optimise protection of their IT compute equipment from fire, heat, water, smoke and attack. The building was also protected by a secondary vehicle barrier around its perimeter.

The District Council's data centre design was based on Workspace Technology's 'All-In-One' architecture offering a complete turnkey solution ready to 'rack and stack' I.T equipment on handover. The data centre structure was fitted out with a raised access floor, FläktGroup MultiDenco DMA045 perimeter cooling down flow units, IG55 environmentally friendly fire suppression, equipment cabinets, power distribution and modular "hot swap" rack format Riello Multi Power UPS systems.

The compact single aisle arrangement contributed to improved airflow efficiency and helped reduce the overall data centre footprint.

The installation was designed to support a total cooling capacity of 50kW N+1 across 7 equipment racks when fully populated. The facility power was backed up with a 100kVA Himoinsa generator and associated automatic transfer switching arrangements.

The Modular Data Centre was server ready within less than 8 weeks from project commencement significantly reducing timescales when compare to a bricks and mortar installation.

The Success

Workspace Technology's design team worked tirelessly with the District Council to ensure every detail of the installation met their exacting requirements. By using Workspace Technology's pre-engineered standardised modular design concepts, the installation rapidly progressed enabling critical deadlines to be met with ease.

Pete Wootton, who managed the project for Wyre Forest District Council commented "We are extremely pleased with the new data centre installation. The quality of build and finish certainly exceeded all our expectations and we now have a facility that will meet the District Council's data centre needs for the foreseeable future. Workspace Technology's delivery team were a pleasure to work with keeping us fully informed of progress at all times throughout the construction stage."

Solution Benefits

■ **Rapid Deployment** - The modular solution avoided the need to build a traditional bricks and mortar building significantly reducing time and associated build costs.

■ **Resilience** - The installation offered the District Council N+1 resilience with N+1 cooling, modular hot swap UPS equipment and generator backed power supplies.

■ **Enhanced Fire Protection** - The structure was designed to support enhanced levels of fire and temperature protection using the industry leading ModuSec high performance pre-engineered composite panel system.

riello ups

FläktGroup

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**

www.workspace-technology.com

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