



Rigid gas power helps transport company meet national energy goals

PURPOSE

To provide reliable and responsive gas power solutions using U.K. manufactured products, compliant with connecting to the national grid and adhering to strict emissions regulations.

SUPPLY

- 25 x C2000N5C 2MW QSV91G containerized gas generator sets
- PowerCommand® 3300
- Digital Master Control (DMC) 8000

WHERE

Walker and Son Hauliers Ltd. Doncaster, U.K.

Cummins provides fast-start and transient capability for minimum downtime



Walker and Son Hauliers Ltd. is a fourth-generation worldwide transport and commercial property business based in Doncaster, U.K. The company operates a fleet of 50 trucks, 120 trailers, 15 mobile cranes with a 250-ton capacity and 20 specialized Versa Lift forklift trucks with a 45-ton capacity. Approximately two million square feet of rented property comprises the landscape that Walker and Son maintains.

Walker and Son needed a partner that would offer reliable and responsive power solutions with U.K. manufactured products, while maintaining a strong customer service relationship. Cummins delivered on each of their needs with a total of 50MW across three sites, with 25 x C2000N5C (2MW) QSV91G containerized gas generator sets. Additionally, Cummins offered competitive pricing, and the customer was particularly interested in Cummins' fast-start capability and load pickup transient capability of up to 45% at G1 ISO 8528 load step offered by the C2000N5C models. This feature ensures each site can be online within under two minutes when commanded by the National Grid, thus allowing for fewer voltage and frequency disturbances and faster recovery times, providing a rigid power supply.

To complete the installation of the generator sets, the Cummins PowerCommand® 3300 and Digital Master Control (DMC) 8000 were provided, allowing the customer to monitor the generators' performance remotely, which was a critical customer requirement. Additionally, Cummins carried out onsite mechanical and electrical works and commissioning, providing a complete solution to the customer.



Power and compliance

The capacity market runs around 2,000 hours per year, as a result each of the sites required operating at full power with minimum downtime. Two of the sites had 10 x C2000N5C QSV91G containerized gas generator sets installed totaling 20MW. The third site had 5 x C20005NC QSV91G containerized gas generator sets installed totaling 10MW. All sites had radiators and switchgear installed.

U.K. policymakers have prioritized decarbonization and higher penetration of renewable energy sources as important energy goals. With 66 million people and a GDP of \$2.62 trillion, the U.K. is the fifth-largest economy in the world. Reducing carbon emissions, which derive from burning coal and fossil fuels, is no small feat. The U.K.'s energy goals combined with Cummins' broad power portfolio allows Cummins to provide the perfect solution

for any size company. During this installation, Cummins had to ensure units complied with the regulations for connecting to the National Grid and ensure units met strict emissions regulations. All generators complied with Medium Combustion Plant Directives (MCPD), in addition to G59 and G99 regulations, which were critical customer requirements. Cummins also had to meet a noise limit requirement of 75 dBA as the sites were located within an urban area. To meet such a requirement, the appropriate balance of plant and containers were supplied to ensure the noise limit was not exceeded.



Superior results

Delivering superior results to customers is one of Cummins' core values. After the successful installations across the initial sites, Walker and Son placed an order with Cummins for two more sites in Dinnington, U.K., further supporting the company's business with reliable and sustainable power. Both sites will have installations of the newly released HSK78G gas generator series with 10 units at one site and five units at the other. Each site will comprise containerized sets including mechanical and electrical works and commissioning.

“ Cummins offered a turnkey deal, which helped us in this new business venture. We found Cummins to be very professional at all levels from start to finish of the contract, using experienced subcontractors where required. ”

Richard Walker, Director of Walker and Son



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