



Standby power

> Case History

Ropemaker, London

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Where:

Ropemaker Street, Moorgate, London

What:

Generator Sets are four C2500 D5A, powered by QSK60 G8 engines, featuring DMC200 generator set controls

Purpose:

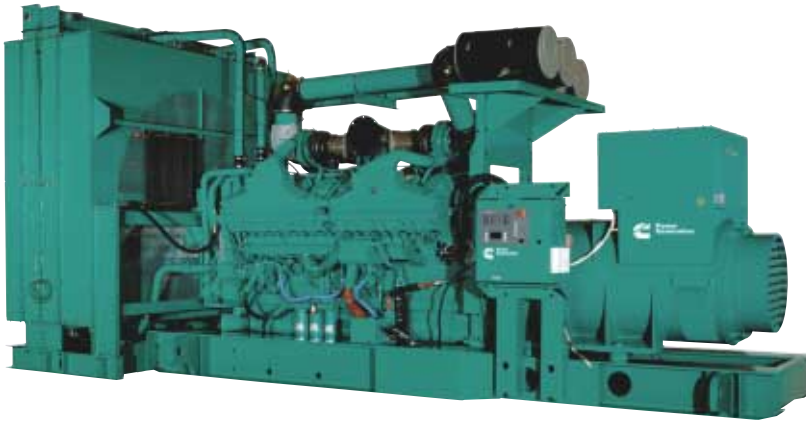
Standby power to maintain efficient functioning of a 586,000 sq ft building providing residential, office and retail space, including two trading floors of 42,500 sq ft (4,000m²)

Primary choice factors:

- Proven product reliability
- Established reputation
- Design consultant employed on project specified Cummins Power Generation branded power solution

Designed by Arup Associates the 20 storey Ropemaker development is destined to become one of the city of London's most attractive yet sustainable buildings. Offering over 586,000 sq ft of the most flexible office accommodation for both professional and financial service occupiers, the building incorporates two large trading floors, expansive roof terraces overlooking London and a double height atrium with innovative public art by Jason Bruges.

The impressive Ropemaker office development, located near to Moorgate tube station, is set to enable occupiers to reduce energy and water use, cut down waste, decrease carbon emissions and lower associated costs. All energy used for heating water and space will come from renewable sources, generating enough power to run 7,000 washing machine cycles.



Installation of C2500 D5A generator sets



The complete operation is controlled by a Cummins Power Generation DMC200 Digital Master Control System.

A reliable source of standby power is required to ensure the delivery of an uninterrupted supply of power to the residential, retail and commercial units occupying the building and Arup Associates involved Cummins Power Generation UK in the project from an early stage, inviting Cummins to assist in the proposed layout of the generators and any auxiliary equipment. This application presented the challenge of six individual LV switchboards each with a separate incoming supply. The required control philosophy treats each of these supplies independently, and requires DMC200 to instigate generator support for a failure of supply at any one, multiple or all switchboards. With the switchboards each located in physically separate locations, additional safety is provided by the DMC200 which monitors emergency switches (EPO's) at each location and immediately responds by isolating generator supply to that individual switchboard, without affecting the efficient operation at all the other switchboards.

Cummins Power Generation UK's ability to overcome the building's spatial constraints during the initial layout phase stood the business in good stead to win the contract to supply four generator sets capable of delivering 8MW power with an associated noise level below 63db(A). The decision to appoint Cummins Power Generation UK was based on the company's proven product reliability, but was also heavily influenced by the design consultant's specifications which identified the four C2500 D5A Cummins Power Generation generator sets and DMC 200 controls as the desired power system for this innovative, state of the art project.

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