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Reducing carbon emissions by 185,000kg

Situation

Two diesel generators powering tower cranes and personnel hoists in Auckland CBD that cause constant problems with noise, diesel fumes and complaints from neighbours.

Construction site

Innercity development

Site requirements

Urban noise and emissions restrictions

CO_2 reduced

185t per annum



To address the noise and emissions problems caused by diesel generators, Watts & Hughes installed a CP300.

The unit was configured to draw only 16A and connected to one of the site power distribution boards, providing power for both the Potain MCR 295 luffing tower crane and the personnel hoist.

The CP300 has helped improve relations with neighboring residents by reducing noise and emissions, and improved productivity and reduced downtime on-site by supplying reliable and efficient power to the on-site equipment.

Operational costs have also reduced by eliminating the need for two diesel generators, which also reduced their carbon footprint by over 185t annually.

Project	Abstract Hotel
Construction company	Watts & Hughes
Location	Auckland, New Zealand
Project start	April 2023
Site loads	Potain MCR 295 luffing tower crane
Input feed	16A three-phase mains supply
Power requirement	265kVA crane + site power
Battery system	CP300