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Reducing Carbon by 185,000kg

Situation

Watts & Hughes were constructing a building in Auckland CBD and had been using two diesel generators to power their tower crane and personnel hoist for the past two years. The generators were causing constant problems with noise, diesel fumes and complaints from neighbours.

Construction Site

Urban development

Site requirements

Urban noise & Emmissions restrictions

CO_2 Reduced

185 tonnes per annum

To address the noise and emissions problems caused by the generators, Watts & Hughes installed an CP300 in April 2023 to provide power to both the tower crane and the personnel hoist. The CP300 was set to only draw 16A from the general site power and was plugged into one of the site power distribution boxes. The use of the CP300 system has had several positive results for Watts & Hughes. First, it has helped them reduce noise and emissions on the construction site, which has improved relations with their neighbours. Second, the CP300 system has provided reliable and efficient power to the tower crane and personnel hoist, which has improved productivity and reduced downtime. Third, the use of the CP300 system has helped them reduce their carbon footprint by over 185 tonnes annually.

Location	11-story Highrise building, Auckland CBD, NZ
Site Operator	Watts & Hughes Construction
Power Requirement	300kVA
Crane Type	POTAIN MCR 295, 220kVA, luffing crane
Input Feed	16A, 400V, 3-phase
CP Model	CP300
Build Date	2023