



1 One of the three new generators. 2 Generator control panel. 3 External view of the generator plantroom and exhaust flues.

SKYCITY GENERATOR REPLACEMENT

Beca for SKYCITY

Project Location: Auckland



The client, SKYCITY, engaged Beca to provide engineering services for this complex generator project on their main site in Auckland central city. Our documentation included early procurement of specialist equipment. Once the main contractor, Fletcher Construction was appointed, the specialist contractors were novated to them. Other key team members included: Xigo as project managers, Moller Architects and Rider Levett Bucknall as cost managers.

SKYCITY needed to liberate their basement space to enable the NZICC build to commence. Unfortunately this space housed their back-up generators and switchboards. Therefore a completely new generator system needed designing, installing, commissioning and integrating into the live SKYCITY site. This project included 3 x 1750kVA 400V sets, step-up transformers, HV switchgear, fuel systems, ventilation and controls systems.

To add further complexity, space for all of the new equipment had to be found, within the existing site, without impacting on the client's business. SKYCITY also required the generator system to operate in parallel with the Vector supplies. The SKYCITY Generator Replacement Project has been one of our most technically-challenging building projects in recent years. Just as well we relish a challenge!

Judging & Copyright Statement

This project is an entrant in the 2016 INNOVATE NZ Awards of Excellence competition. The winners will be celebrated at our Awards Gala Dinner on Saturday, 12th August 2017 in Taupo.

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