CranePower Case Study

Wesley Hospital
Brisbane, Australia

Beating noise and emissions regulations with the E-Gen300

Situation

A 10-storey hospital extension build within metres of heavily populated residential apartment blocks, producing minimal noise and zero CO_2 emissions using an E-Gen300.

Nominal noise level

45dB
produced by the E-Gen300

Projected savings across whole build

148t CO_2
emissions savings

Projected diesel savings

55,322L
$144,391
AUD





The Wesley Hospital extension is a large-scale 10-storey project adding vital healthcare services, a critical radiology department, and research facilities.

Within metres of heavily populated residential apartments on both sides of the site—noise control and CO_2 emissions were key factors when selecting the site power system.

A single E-Gen300 has been placed on the site fenceline, producing zero CO_2 emissions and generating 45dB of noise under normal operating conditions. Neighbouring residents can have their windows open and not know the unit is powered on.

Since being on-site, the E-Gen300 has saved over 26 metric tons of CO_2 and is projected to save over 148t when the crane comes down in July 2027. An equivalent diesel generator would be expected to use 55,322L of diesel at a cost of $144,391 AUD by project end.

The E-Gen300 on-site has maintained 100% uptime and 81% average State of Charge for over 71 days, fed only by a 25A limited mains input.

Project	Wesley Hospital
Construction company	Hutchinson Builders
Location	Brisbane, Queensland, Australia
Project start	August 2026
Site loads	Yongmao STL420-24t luffing tower crane
Input feed	32A three-phase mains supply, limited to 25A
Power requirement	400kVA
Battery system	E-Gen300 owned by Hutchinson Builders

For more information contact us at—
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By the numbers

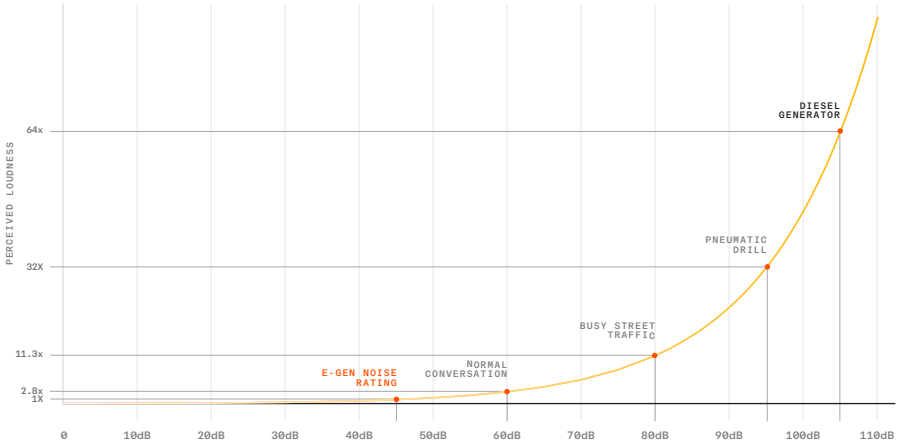
Summary

Powered by a mains supply limited to 25A, the E-Gen300 delivered power to the Yongmao STL420-24t on-site with 100% uptime

Noise rating

Quiet operation

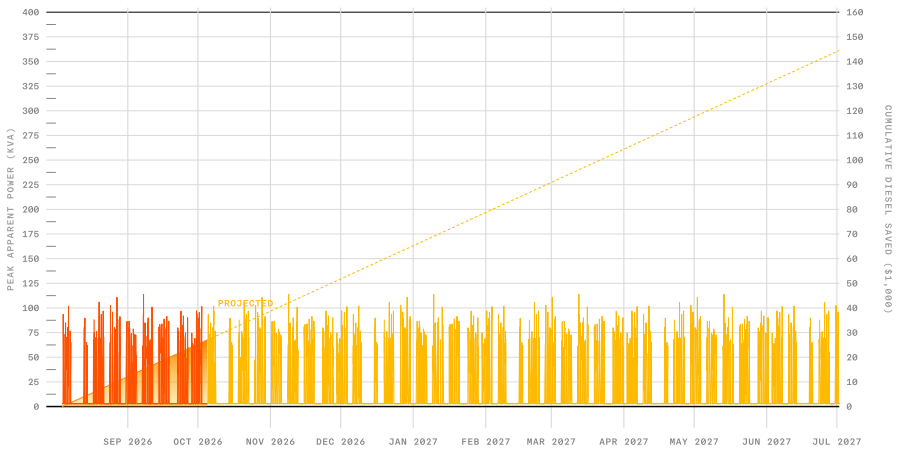
Produces comparable noise to a household refrigerator under normal operating conditions and less than half the decibels of a typical diesel generator.



Projected diesel savings

55,322L
$144,391

Compared to if the site used a 400kVA diesel equivalent, at 2.61 AUD $/L for the duration of the build.



Emissions

CO_2

Zero emissions are generated by the E-Gen300, saving tons of CO_2 from environmental pollution.

0t emitted

148t saved