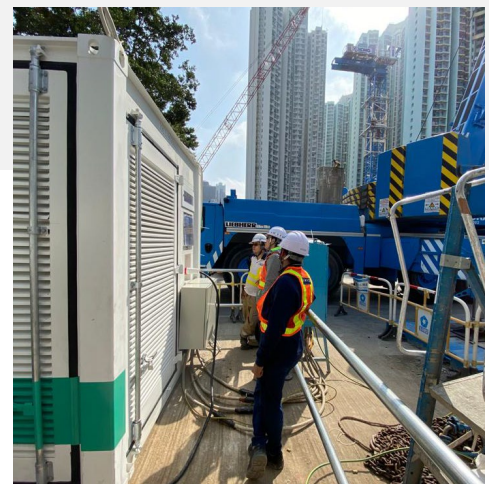


Project Information

- ❖ **Contractor:** Penta-Ocean Construction (Hong Kong)
- ❖ **Developer:** Architectural Services Department of the Hong Kong SAR Government
- ❖ **Project Name:** Treasury Building
- ❖ **Project Type:** Superstructure Construction
- ❖ **Delivery Date:** 14 January 2020
- ❖ **Load:** XCMG XL6025-20 16 tonne tower crane
- ❖ **Model:** 300 kVA Enertainer
- ❖ **Maximum Input Current:** 20 amps



Site Setup



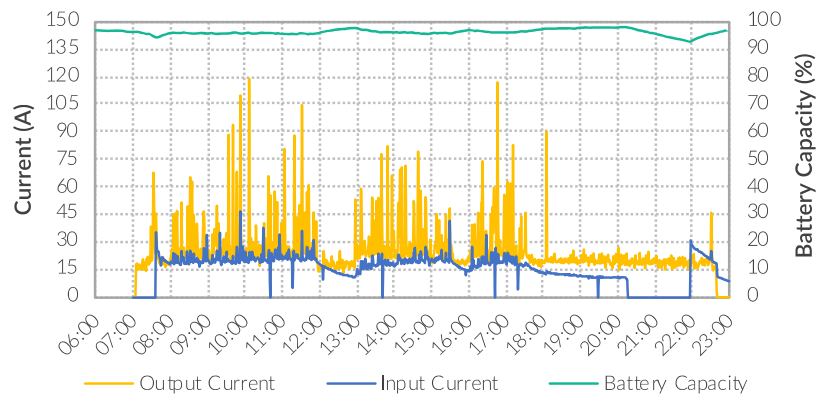
Connection between the utility mains, Enertainer and the load.

Results

- **74% lower fuel cost**¹ (vs. a 300 kVA generator)
- **77% CO₂ footprint reduction**² (vs. a 300 kVA generator)
- **10 times quieter than a generator at full load** (200 times quieter in charging mode)
- **99.6% uptime**³
- **Zero direct NO_x and PM** (99% lower indirect)

▪ **Battery capacity remained above 90% at all times.**

▪ **Power quality of the output was extremely high: voltage fluctuation remained within $\pm 0.26\%$ and frequency remained at 49.9 Hz (fluctuation was too small to measure).**



Performance metrics for the Enertainer at the Treasury Building project on 22 Feb 2020, one of the busiest days for the tower crane.

¹ Assuming a wholesale market diesel price of HK\$5.50 (US\$0.71 per litre). ² Assuming an energy intensity of 0.51 kg_{CO2} per kWh (Source: Response to the Long-Term Decarbonisation Strategy Public Engagement, CLP (September 2019)). ³ As of the time of writing (5 March 2020)