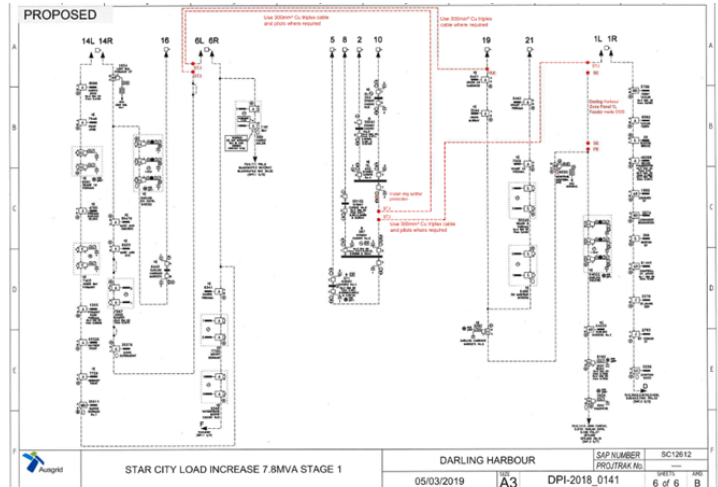


High Voltage System upgrade

Sydney, Gold Coast

Project Profile - Completed Project



Status	Value	Duration	Contract Type
Complete	\$14m	2 year	D&C

Key Info

Client	The Star Casino
Sector	Entertainment
Role	Technical PM / Design Manager



Background

We provided Project Management services to deliver High Voltage incoming services, HV / LV board replacements in a 24/7 live casino.

Our clients Master planning and aggressive expansion for additional hotels, gaming floors and apartments at both properties in the Gold Coast and Sydney Casinos resulted in the 11kVa HV networks requiring upgrading from 12Mva to 16Mva.

This included the construction of Electrical Central Energy Plants and all HV and LV assets being replaced. This included:

- Complex cut over and staging methodology for power transfer from existing HV boards that were 60 years old with minimum business impact.
- Upgrade from 12Mva to 16Mva incoming HV supply via 11kV network with new metering stations and reconfiguration of local Zone Sub with Energex. This provided full redundant HV supply
- Replacement and upgrade 3 x HV Boards, RMU's, 7 x 4000amp MSB's and replacement of all cabling to DB's and 12MW of back power generation.

The above works involved 10 HV shutdowns and 160 LV shutdowns.

Managing many night shift cutovers, shutdown pre-planning meetings with Consultants, Main Contractor, Electrical Contractor and incumbent maintenance contractors to ensure the building was re-energised for the next day took months of planning.

Managing Scope, Cost, and Programme for 2 No. Central Energy Plant projects at Gold Coast and Sydney Properties. Inc. complex building works, 4 stories under CBD adjacent Sydney Harbour.

Significant stakeholder engagement with 10+ business units was required to deeply understand their operations. We delivered the Project on time despite unforeseen geotechnical issues adjacent Sydney harbour. After all variations were assessed delivered the project 15% under budget.

[More Info: https://www.caaengineering.com/blog](https://www.caaengineering.com/blog)