

Natural Gas Self-Generation Plant

Peter Lucas provided concept, feasibility, engineering, and procurement management of a project aimed at installing high-efficiency natural gas fired reciprocating gensets to minimize the client site's electricity import from the grid.

The current project consists of a series of 6 natural gas fired reciprocating gensets located in a standalone building.



The facility will generate electricity at the 13.8kV level before increasing to 138kV, where it will be connected in parallel to the provincial grid and subsequently fed to the mine site.

Peter Lucas was responsible for:

- strategy development,
- opportunity evaluation and alternative analysis of power technologies,
- evaluation of configurations, capacity scenarios and sites/ locations for the 72MW facility,
- economic analysis; and
- managing tender documentation for the selection process.

The project management, engineering and procurement deliverables provided by Peter Lucas include:

- comprehensive power system study for the client's mine site,
- feasibility engineering report describing the feasibility of electricity self-generation at the client's various mine sites, including multiple technologies and engine manufacturers,
- detailed specification and statement of work for the self-generation plant,
- preliminary high-voltage interconnection studies for client's site,
- site's environmental assessment and submission to Ministry of Environment; and
- all required project controls deliverables, engineering stage completion and project hand-over to the client's execution team.

Build your legacy.



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