Clean Energy
CONSULTING INC.

CONIFEX POWER: MACKENZIE GENERATING STATION

OVERVIEW

CEC Scope:
Project Development
EPCM Services

System Capacity:
280,000 pph Boiler
36 MW Turbine Generator

Capital Budget:
$100M

Project Duration:
36 Months

HIGHLIGHTS

- *non-recourse bank financing*
- *conversion of decommissioned pulp & paper mill*
- *400,000 site hours with no lost time accidents*
- *EPCM approach to manage risk and minimize capital cost*

PROFILE

Conifex Power set an ambitious goal to convert a decommissioned pulp and paper mill into a modern bioenergy generating station as part of their objective to build Canada's premier next-generation forest company. The project realized significant savings by repurposing the existing fuel receiving, electrical, water and effluent infrastructure. The existing biomass boiler was uprated and a secondary fuel system for pulverized wood was added for capacity and redundancy. A new condensing steam turbine generator, cooling tower and fuel handling system were integrated.

Conifex selected CEC as a strategic partner to lead the project with responsibility for project outcomes and plant performance. The team was successful in securing non-recourse debt financing by presenting a Project Execution Plan that adequately mitigated the risks of project implementation at a brownfield site. The project was managed with an EPCM team that developed fixed price equipment and construction contracts for major components. This approach achieved the project objectives and allowing Conifex to manage the risk premium to complete the project at a significant discount to a comparable greenfield build.

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