Bear Creek is an industrial cogeneration plant situated on International Paper Grande Prairie pulp mill and Weyerhaeuser saw mill complex. The power plant is configured around a 58 MW natural gas fired turbine. The turbine exhaust passes through a heat recovery steam generator to produce high-pressure and low-pressure superheated steam. The steam combines with steam from Weyerhaeuser’s wood waste fired boiler to power a 32 MW condensing steam turbine generator.

The Bear Creek project imports biomass-derived steam from the pulp mill to augment its power output, enabling Weyerhaeuser to significantly reduce the amount of wood waste sent to landfill.

TransCanada Energy Ltd. participates in Alberta’s competitive electricity market.
Bear Creek Cogeneration Plant

The cogeneration plant is configured around a single 58 megawatt (MW) natural gas-fired Rolls Royce Trent gas turbine generator equipped with a wet low emissions system. The turbine exhaust passes through a heat recovery steam generator to produce high-pressure and low-pressure superheated steam. This steam combines with steam from Weyerhaeuser’s wood waste-fired boiler to power a 32 MW condensing steam turbine generator. Streams of medium- and low-pressure steam are returned to Weyerhaeuser for use in the pulping process.

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