



Nazko Valley Elementary School & Community Centre – Quesnel, BC

Background

The Nazko Valley Elementary School & Community Centre was retrofitted with a biomass heating system to take advantage of lower fuel costs and carbon credits from reduced greenhouse gas emissions.

The Viessmann Solution

A fully containerized Pyrot wood-fired boiler system was commissioned to provide space heating for the 17,000-square-foot building.

Installation Details

A heated biomass system enclosure – complete with a Pyrot KRT-300 boiler, piping, pumps, mixing valve and storage tank – was installed in only two days. A pellet silo with a capacity of 47 tonnes and an automated feed system ensure a consistent fuel supply for the boiler.

The Pyrot is equipped with the industry-leading control and safety devices to ensure reliable and safe operation. Its advanced combustion process, triple-pass heat exchanger and modulating output control enable the boiler to achieve an efficiency of 85% while maintaining low emission levels. An automatic deashing system minimizes maintenance, and a web interface allows remote system monitoring.

The Results

The 100% biomass heated facility uses locally-sourced wood fuel (generated from timber destroyed by the pine beetle), displacing approximately 86,400 litres of propane and 130 tonnes of CO₂ emissions every year.

Project Details

Project Year	2009
Equipment	Pyrot KRT-300 Vitocontrol-C Custom Control Panel
Rated Output	1025 MBH / 300 kW
Contractors	Ventek Energy Systems Inc., Quesnel, BC



The new biomass heating system displaces approximately 130 tonnes of CO₂ annually



A containerized system with Pyrot KRT-300 boiler, peripheral equipment and pellet silo simplified the two-day installation process

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