

Wood Pellet Boiler

Chief Jimmy Bruneau School, Behchoko

System Overview:

In the first half of 2009 the Chief Jimmy Bruneau School in Behchoko joined the list of Wood Pellet Boiler heated facilities in the Northwest Territories. The Government of the Northwest Territories (GNWT) installed a single KOB 750 kW Wood Pellet Boiler (Designed and manufactured in Austria). The boiler provides space heating and hot water to the school.

Like the rest of the Wood Pellet Boilers the primary system is backed up by a traditional oil fired boiler system. The oil system also starts when the heating load peaks if the Wood Pellet Boiler cannot meet the heating requirement load during the middle of heating season.



Wood Pellet Boiler at Chief Jimmy Bruneau School

Performance Data:

Boiler Rated Output:	750 kW (2560 MBH)
Equivalent Annual Oil Amount¹:	155,000 L
Expected Annual Pellet Usage²:	302 tonnes
Potential Annual Savings²:	\$105,000
Annual GHG Reduction¹:	410 tonnes CO₂^{eq}

Based on the estimated GHG Reduction using the Wood Pellet Boiler it is equivalent to removing up to 75 midsize passenger vehicles from operation.

¹ GNWT Estimation

² Calculation based on GNWT estimated values