



**Project:** Haines Public Safety Building Energy Benchmarking

**Project No:** B13.04450

**Building Energy Use and Cost**

Building	Area	Existing (From Utility Bills)						Existing (Predicted from Current Fuel Rate)		Average Building for the Region		Typical New Construction			High Performance		
		Annual kBtu	Annual Cost	EUI	% Better than Average	Elec	Fuel	EUI	Annual Cost	EUI	Annual Cost	EUI	Annual Cost	Annual Cost Savings	EUI	Annual Cost	Annual Cost Savings
Public Safety (Exst)	12557	759554	\$23,363	60	-1%	32%	68%	60	\$28,028	60	\$27,800	40	\$18,700	\$4,663	18	\$8,400	\$14,963
Admin (Exst)	3552	245462	\$8,228	69	-23%	40%	60%	69	\$9,530	56	\$7,800	38	\$5,300	\$2,928	17	\$2,400	\$5,828
PSB (New)	19500							63	\$37,558	59	\$43,066	39	\$28,900	\$8,658	18	\$11,300	\$26,258

33% Reduction

70% Reduction

**Notes:**

Average buildings based on EnergyStar Target Finder results (CBECS database)

Typical New Construction meet ASHRAE 90.1-2007 (Typically about a 33% Reduction from Average)

High performance meets 2030 Challenge for 2020 (70% reduction from Average)

All estimated costs rounded to nearest \$100

Existing (Predicted from Current Fuel Rate) annual costs take the existing utility bills and scale up the annual cost from the fuel rate of \$3.40 per gallon to \$4.63 per gallon

New PSB based on 30% Admin / 70% PSB per Jason

"Existing" Utility Bills for new PSB sum of Existing Buildings

**Adjusted Energy Costs:**

Previous Fuel: \$3.40 per gallon = \$0.0245 per kBtu

Current Fuel: \$4.63 per gallon = \$0.0334 per kBtu

Elec: \$0.172 per kWh = \$0.0504 per kBtu