

heat loss

Eden Mills Community Hall					Date	23-Apr-09									
Heating Comparison					Author	R.Lay									
annual propane use	5,700	L		inputs											
average unit cost	0.75	\$/L		results											
Energy Source	Annual Use		Avg unit cost	unit	Annual cost	Energy content	unit	Gross energy	Eqpt efficiency	Usable energy					
					\$						kWh				
Propane	5700	L	\$ 0.75	L	\$ 4,275	25.3	MJ/ L	144.21	GJ	90%	129.789	GJ	36,053		
Heating oil	4,269	L	\$ 1.00		\$ 4,269	38.0		162.2	GJ	80%	129.789				
electricity															
resistance	36,053	kWh	\$ 0.15	kWh	\$ 5,408			36,053	kWh	100%			36,053		
heat pump			\$ 0.15	kWh	\$ 1,963			13,086	kWh	275%			36,053	9.4	HSPF
natural gas	3,877	cu m	\$ 0.48	cu m	\$ 1,861	10.0	kWh/cu m	38,766	kWh	93%	129.789		36,053		
wood pellet			\$ 6.50	bag		8000	BTU/lb	153.8	M BTU	80%	129.789				
	19,222	lb	\$ 0.16	lb	\$ 3,124										