

DOMESTIC WATER HEATING FUEL COST COMPARISONS - May 2008

Fuel and Appliances	Average seasonal Efficiency	Unit of Fuel	Cost Per Unit (before tax)	\$/cubic metre of hot water (All taxes incl.)	Typical household annual hot water costs \$			
					Two person (120 litres/day)	Four person (240 litres/day)	Six person (360 litres/day)	
Electricity								
Electric water heater - new	90%	Kilowatt-hour	10.67	6.58	288.02	576.03	864.05	
Electric water heater - old	85%		10.67	6.96	304.86	609.72	914.59	
Instantaneous heater	95%		10.67	6.23	272.86	545.71	818.57	
Time of use (optional)* - new	90%		5.335	\$3.29	144.01	288.02	432.02	
Natural Gas								
Stand alone heater - conventional	70%	gigajoule	\$17.44	5.60	245.09	490.17	735.26	
Stand alone/instantaneous heater - high efficiency	93%			3.43	150.16	300.32	450.47	
Indirect tank (with cold start high efficiency boiler)	Winter			90%	3.43	153.75	307.51	461.26
	Summer			85%	3.63			
Oil								
Stand alone water heater	55%	litre	119.0	11.01	482.37	964.75	1,447.12	
Tankless coil	Winter		75%	119.0	8.07	648.22	1,296.45	1,944.67
	Summer		25%	119.0	24.22			
Indirect tank (with cold start high efficiency boiler)	Winter		75%	119.0	8.07	390.06	780.11	1,170.17
	Summer		60%	119.0	10.07			
Propane								
Stand alone water heater	55%	litre	101.0	14.15	619.86	1,239.73	1,859.59	
Stand alone/instantaneous heater - high efficiency	93%			8.35	365.72	731.44	1,097.16	

Conserve Nova Scotia - (902) 424-8174

*Assumes water heater operates only during off-peak hours (11pm - 7am daily, 24 hrs/day on weekends, holidays and other designated times). See Nova Scotia Power Inc. rate structure for complete details on time-of-use rates.

Note:

- Prices of oil and propane vary according to supplier, location, discount structures, ect.
- Costs are for fuel only! Equipment, rental and maintenance costs are not included in these calculations.
- Annual base charges not included: electricity - \$149.46; natural gas - \$178.04; oil and propane - fuel storage tank or water heater rental
- Water use is an average. Higher water usage, hot tubs etc., will significantly increase costs.

Assumptions:

- Average water temperature rise is 75 degrees F.
- For water heated by space heating boiler, it is assumed that it also supplies space heat for seven months of the year.