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State of the Art Bio Energy Heating Systems
Revolutionary Wood Heating Technology
Highly Economical for Commercial, Industrial Buildings

Metric - Efficiency, Gross Heating Values and Cost Comparisons for Various Fuel Types

TYPE OF FUEL	Wood				Softwood (kiln dried) (13% MC)	Hardwood (kiln dried) (8% MC)	Wood Pellets (5% MC)	Firewood (Douglas Fir) (20% MC)	Electricity	Natural Gas	Natural Gas	Fuel Oil		Propane	Bituminous Coal	Switchgrass (Overdried)
	Green (50% MC)	Semidried (30% MC)	Air-dried (20% MC)	Overdried (0% MC)								Red Diesel #2	Diesel / Oil#6			
Gross Heating Value	2,778 kWh/tonne	3,890 kWh/tonne	4,445 kWh/tonne	5,557 kWh/tonne	5,112 kWh/tonne	5,168 kWh/tonne	5,298 kWh/tonne	6,155 (kWh/Cord)	1.000 kWh	1.000 GJ	11.020 kWh/M3	10.743 kWh/L	11.840 kWh/L	7.100 kWh/L	9,886 kWh/tonne	5,007 kWh/tonne
Efficiency	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Net Heating Value	2,778 kWh/tonne	3,890 kWh/tonne	4,445 kWh/tonne	5,557 kWh/tonne	5,112 kWh/tonne	5,168 kWh/tonne	5,298 kWh/tonne	6,155 (kWh/Cord)	1.000 kWh	1.000 GJ	11.020 kWh/M3	10.743 kWh/L	11.840 kWh/L	7.100 kWh/L	9,885.500 kWh/tonne	5,007.361 kWh/tonne
$ per kWh	**$ per tonne**	**$ per tonne**	**$ per tonne**	**$ per tonne**	**$ per tonne**	**$ per tonne**	**$ per tonne**	**$ per Cord**	**$ per kWh**	**$ per GJ**	**$ per cu/metre**	**$ per L**	**$ per L**	**$ per L**	**$ per tonne**	**$ per tonne**
0.0100	27.78	38.90	44.45	55.57	51.12	51.68	52.98	61.55	0.0100	2.780	0.110	0.1074	0.1184	0.07	98.86	50.07
0.0200	55.57	77.79	88.90	111.13	102.24	103.35	105.96	123.09	0.0200	5.560	0.220	0.2149	0.2368	0.142	197.71	100.15
0.0283	78.63	110.08	125.80	157.25	144.67	146.24	**149.94**	174.18	0.0283	7.867	0.312	0.3040	0.3351	0.201	279.76	141.71
0.0300	83.35	116.69	133.36	166.70	153.36	155.03	158.94	184.64	0.0300	8.340	0.331	0.3223	0.3552	0.213	296.57	150.22
0.0400	111.13	155.58	177.81	222.26	204.48	206.70	211.92	246.19	0.0400	11.120	0.441	0.4297	0.4736	0.284	395.42	200.29
0.0500	138.91	194.48	222.26	277.83	255.60	258.38	264.91	307.74	0.0500	13.900	0.551	0.5372	0.5920	0.355	494.28	250.37
0.0627	174.20	243.88	278.72	348.40	320.52	324.01	332.19	385.90	**0.0627**	17.431	0.691	0.6736	0.7424	0.445	619.82	313.96
0.0700	194.48	272.27	311.17	388.96	357.84	361.73	370.87	430.83	0.0700	19.460	0.771	0.7520	0.8288	0.497	691.99	350.52
0.0816	226.71	317.39	362.73	453.41	417.14	421.68	432.33	502.23	**0.0816**	22.685	0.899	0.8766	0.9661	0.579	806.66	408.60
0.0850	236.15	330.62	377.85	472.31	434.52	439.25	450.34	523.15	0.0850	23.630	0.937	0.9132	1.0064	0.604	840.27	425.63
0.0878	243.93	341.51	390.29	487.87	448.84	453.71	465.17	540.39	**0.0878**	24.408	0.968	0.9432	1.0396	0.623	867.95	439.65
0.0900	250.05	350.06	400.07	500.09	460.08	465.08	476.83	553.93	0.0900	25.020	0.992	0.9669	1.0656	0.639	889.70	450.66
0.1000	277.83	388.96	444.52	555.66	511.20	516.76	529.81	615.47	0.1000	27.800	1.102	1.0743	1.1840	0.710	988.55	500.74
0.1100	305.61	427.85	488.98	611.22	562.32	568.44	582.79	677.02	0.1100	30.580	1.212	1.1817	1.3024	0.781	1087.41	550.81
0.1200	333.39	466.75	533.43	666.79	613.44	620.11	635.77	738.57	0.1200	33.360	1.322	1.2892	1.4208	0.852	1186.26	600.88
0.1300	361.18	505.65	577.88	722.35	664.56	671.79	688.75	800.12	0.1300	36.140	1.433	1.3966	1.5392	0.923	1285.12	650.96
0.1400	388.96	544.54	622.33	777.92	715.68	723.46	741.74	861.66	0.1400	38.920	1.543	1.5040	1.6576	0.994	1383.97	701.03
0.1500	416.74	583.44	666.79	833.48	766.80	775.14	794.72	923.21	0.1500	41.700	1.653	1.6115	1.7760	1.065	1482.83	751.10
0.1600	444.52	622.33	711.24	889.05	817.92	826.82	847.70	984.76	0.1600	44.480	1.763	1.7189	1.8944	1.136	1581.68	801.18
0.1700	472.31	661.23	755.69	944.61	869.05	878.49	900.68	1046.31	0.1700	47.260	1.873	1.8263	2.0128	1.207	1680.54	851.25
$ per kWh	**$/ton**	**$/ton**	**$/ton**	**$/ton**	**$/ton**	**$/ton**	**$/ton**								**$/ton**	**$/ton**
0.0100	25.21	35.30	40.34	50.42	46.39	46.89	48.08								89.71	45.44
0.0200	50.42	70.59	80.68	100.84	92.78	93.79	96.15								179.41	90.88
0.0283	71.35	99.89	114.16	142.70	131.28	132.71	136.06								253.87	128.59
0.0300	75.63	105.89	121.01	151.27	139.17	140.68	144.23								269.12	136.32
0.0400	100.84	141.18	161.35	201.69	185.55	187.57	192.31								358.82	181.76
0.0500	126.06	176.48	201.69	252.11	231.94	234.46	240.39								448.53	227.19
0.0627	158.07	221.30	252.92	316.15	290.86	294.02	301.44								562.45	284.90
0.0700	176.48	247.07	282.37	352.96	324.72	328.25	336.54								627.94	318.07
0.0816	205.72	288.01	329.16	411.45	378.53	382.65	392.31								731.99	370.78
0.0850	214.30	300.01	342.87	428.59	394.30	398.59	408.66								762.49	386.23

LEGEND

Cost of Pellet Fuel including Transportation Fee for Most of BC

NOTE: $.0816

Commercial Electricity for General Service over 35kw/month has EXTRA Demand Cost of $4.18 per kw over 35 to 115.

Commercial Electricity for General Service over 35kw/month has EXTRA Demand Cost of $8.02 per kw over 115

Residential Rates of Energy

*Source Information compiled by Fink Machine Inc.