



Reed's 6800 sq ft store built in 1993, climate zone 6, Genesee, PA:

actual heating/cooling cost with NRG 10" units (all heating, since no air conditioners are needed):

33 cents sq ft (28 cu ft/sq ft)

Don Reed' store has a drop ceiling with a 30" air gap, metal roof, two inches of rigid, foam, rubber, and gravel on top.

eQuest energy model built to LEED 3.0 standards. eQuest Walls are R-54: 10" block exterior, 10" EPS (2.5 density at R-5 per inch) interior.

eQuest model with R-54 walls projected heating and cooling cost:

53 cents per sq ft (37.25 cu ft/ sq ft).

Heating 234.49 million Btu's = 228103.11 cu ft of gas divided by 6800= 33.5 cu/sq ft.

Cooling: 7490 kilowatt hours = 25556.9 cubic feet of natural gas = 3.75 cu ft/sq ft

Project/Num.: don reed & 543 Bradford - Baseline Design Run Date/Time: 11/27/11 @ 22:46



Electric Consumption (kWh x000)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Space Cool	-	-	0.02	0.19	0.42	1.44	2.02	2.20	1.08	0.10	0.03	-	7.49
Heat Reject.	-	-	-	-	-	-	-	-	-	-	-	-	-
Refrigeration	-	-	-	-	-	-	-	-	-	-	-	-	-
Space Heat	-	-	-	-	-	-	-	-	-	-	-	-	-
HP Supp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Hot Water	-	-	-	-	-	-	-	-	-	-	-	-	-
Vent. Fans	0.47	0.43	0.50	0.49	0.47	0.49	0.47	0.50	0.47	0.47	0.45	0.49	5.67
Pumps & Aux.	0.04	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.01	0.03	0.03	0.04	0.26
Ext. Usage	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc. Equip.	1.55	1.42	1.62	1.56	1.55	1.56	1.55	1.62	1.53	1.55	1.50	1.58	18.59
Task Lights	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.13
Area Lights	2.78	1.63	1.91	1.84	1.78	1.86	1.78	1.91	1.77	1.78	1.71	1.84	21.53
Total	3.84	3.52	4.09	4.11	4.24	5.34	5.83	6.24	4.87	3.94	3.72	3.96	53.68

Gas Consumption (Btu x000,000)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Space Cool	-	-	-	-	-	-	-	-	-	-	-	-	-
Heat Reject.	-	-	-	-	-	-	-	-	-	-	-	-	-
Refrigeration	-	-	-	-	-	-	-	-	-	-	-	-	-
Space Heat	57.70	47.84	32.59	10.65	0.68	-	-	-	0.21	8.77	23.47	52.58	234.49
HP Supp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Hot Water	2.58	2.45	2.85	2.70	2.43	2.34	2.12	2.18	2.03	2.12	2.18	2.52	28.50
Vent. Fans	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumps & Aux.	-	-	-	-	-	-	-	-	-	-	-	-	-
Ext. Usage	-	-	-	-	-	-	-	-	-	-	-	-	-
Misc. Equip.	-	-	-	-	-	-	-	-	-	-	-	-	-
Task Lights	-	-	-	-	-	-	-	-	-	-	-	-	-
Area Lights	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	60.28	50.29	35.45	13.35	3.11	2.34	2.12	2.18	2.23	10.89	25.65	55.11	262.99

