

Kraus-Fabel ZNE Renovation, Amherst, MA

Comparison of Energy Usage Before & After Renovation

Actual data - Electric and Propane:

"Before" data: 2007

"After" data: Dec 2010 - Nov 2011

Month	BEFORE:			BEFORE	AFTER	Difference
	Electric	Propane	Propane	TOTAL	TOTAL	
	kwh	gal	kwh equiv	kwh	kwh	kwh
Dec	391	55	1485	1876	1090	-786
Jan	357	53.2	1436.4	1793.4	1347	-446.4
Feb	358	74.3	2006.1	2364.1	1053	-1311.1
Mar	346	52.3	1412.1	1758.1	751	-1007.1
Apr	313	33	891	1204	441	-763
May	218	8.3	224.1	442.1	247	-195.1
Jun	222	8.3	224.1	446.1	185	-261.1
Jul	367	8.3	224.1	591.1	187	-404.1
Aug	292	8.3	224.1	516.1	197	-319.1
Sep	253	0	0	253	166	-87
Oct	241	8.3	224.1	465.1	305	-160.1
Nov	390	24.8	669.6	1059.6	623	-436.6
Totals	3748	334	9021	12769	6592	-6176.7

Monthly averages	312	28	752	1064	549	-515
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Estimated data - Solar Domestic Hot Water:

Est. SDHW	3.9	MBTU/yr	(same estimated production for both years)
Est. SDHW	1143	kwh/yr	

Annual Usage Totals:

Before	2207 kwh
After	1692 kwh
Difference	515 kwh
Estimated improvement	23%