

SOURCE ENERGY & EMISSIONS REPORT

Date: November 13, 2008
 Rating No.:
 Building Name: 495 East College Ave
 Owner's Name: Carl and Mary McDaniel
 Property: 495 East College Ave
 Address: Oberlin, OH 44074
 Builder's Name: All Seasons Builders
 Weather Site: Cleveland, OH
 File Name: 495 East College Ave (energy cost revised).dig
 Rating Date: 11/7/2008
 Rating Type: Confirmed Rating

Source Energy Consumption (MMBtu/year)

	All Electric		As Designed		% Difference
Heating:	183.1	21.4	-161.6		-88.3%
Cooling:	22.3	13.2	-9.1		-40.7%
Water heating:	63.2	16.4	-46.8		-74.0%
Lights & Appliances:	113.5	104.0	-9.4		-8.3%
Photovoltaics:	0.0	-46.6	-46.6		
Total:	382.0	108.5	-273.5		-71.6%

Total Emissions (lbs/year)

	All Electric		As Designed		% Difference
Heating:	25787.6	3017.2	218.7	25.6	6.3
Cooling:	3141.5	1862.6	26.6	15.8	3.9
Water Heating:	8902.5	2311.9	75.5	19.6	4.8
Lights & Appliances:	15984.7	14655.9	135.6	124.3	30.4
Photovoltaics:	0.0	-6564.9	0.0	-55.7	-13.6

Emissions By End-Use (lbs/year)
 (All Electric Reference Home versus As Designed)

	CO2		SO2		NOx	
	Ref	Des	Ref	Des	Ref	Des
Heating	25787.6	3017.2	218.7	25.6	53.5	6.3
Cooling	3141.5	1862.6	26.6	15.8	6.5	3.9
Water Heating	8902.5	2311.9	75.5	19.6	18.5	4.8
Lights & Appliances	15984.7	14655.9	135.6	124.3	33.2	30.4
Photovoltaics	0.0	-6564.9	0.0	-55.7	0.0	-13.6

The energy and emission values are calculated by comparing the Rated Home to an all-electric version of the Reference Home as defined in the "Mortgage Industry National Home Energy Rating Systems Standards" as promulgated by the Residential Energy Services Network (RESNET). Site-to-source energy multipliers and air emission data were taken from the USEPA eGRID2006 database.