

Appendix A - Evanston 2005 CO2E Emissions Summary

City of Evanston									
Source	Number of Units	Unit	Pounds CO2/Unit	Pounds CH4/Unit	Pounds N2O/Unit	CO2E (CO2)	CO2E(CH4)	CO2E(N2O)	MTCO2E
Electricity	25,095,491	kWh	1.56	0.0000196	0.0000244	39,058,321	10,329	189,822	17,804
Natural gas	746,573	therms	11.71	0.0011023	0.0000220	8,742,371	17,282	5,102	3,975
Gasoline	147,933	gallons	19.56	0.0028660	0.0002205	2,893,569	8,903	10,110	1,321
Diesel	136,907	gallons	22.38	0.0030864	0.0002205	3,063,983	8,874	9,357	1,398
Biodiesel	34,227	gallons	17.89			612,321			278
TOTAL									24,776
Evanston									
Source	Number of Units	Unit	Pounds CO2/Unit	Pounds CH4/Unit	Pounds N2O/Unit	CO2E (CO2)	CO2E(CH4)	CO2E(N2O)	MTCO2E
Electricity - Residential	220,485,373	kWh	1.56	0.0000196	0.0000244	343,160,788.71	90,751.78	1,667,751.36	156,426
Electricity - Commercial	522,269,087	kWh	1.56	0.0000196	0.0000244	812,853,339.78	214,965.96	3,950,443.37	370,530
Electricity - Rail	26,803,956	kWh	1.56	0.0000196	0.0000244	41,717,355.47	11,032.51	202,745.12	19,016
Natural Gas - Residential*	21,538,068	therms	11.71	0.0011023	0.0000220	252,210,776.28	498,569.80	147,198.27	114,674
Natural Gas - Commercial*	42,121,647	therms	11.71	0.0011023	0.0000220	493,244,485.32	975,044.79	287,873.24	224,266
Gasoline**	11,161,792	gallons	19.56	0.0028660	0.0002205	218,324,651.52	671,778.93	762,825.89	99,664
Diesel**	2,533,658	gallons	22.38	0.0030864	0.0002205	56,703,266.04	164,219.65	173,156.78	25,869
Solid Waste Landfilled	22,750	tons	941						9,709
Organic Waste Composted	4,585	tons	-432						-898
Mixed Recyclables Recycled	7,747	tons	-6428						-22,584
TOTAL									996,672
City and Community Total									1,021,448

** Natural gas data is from April 2005 through March 2006

***The City of Evanston's motor fuel tax data was used for these totals. The data was not broken down by fuel type. An average % based on the State of IL Revenue Department's 2005 and 2006 gasoline and diesel gallon totals was used to divide the total gallons by fuel type. Gasoline = 81.5% of total and Diesel = 18.5% of total. <http://www.revenue.state.il.us/Motorfuel/Mft/mfgallonage.pdf>; Data is from March 2005-February 2006