

Appendix B - Evanston GHG Emissions - Projected Growth 1990 - 2020 and Associated Reduction Estimates

	1990			2012			2020			7% of 1990		Reduction Needed by 2012	Reduction Needed by 2020
City of Evanston													
Source	Estimated % Change*	Estimated Units Consumed	Estimated MTCO2E	Estimated % Change*	Estimated # of Units Consumed	Estimated MTCO2E	Estimated % Change*	Estimated # of Units Consumed	Estimated MTCO2E	Estimated # of Units Consumed	Estimated MTCO2E		
Electricity	6.00%	23,589,762	16,736	0%	25,095,491	17,804	0%	25,095,491	17,804	21,938,478	15,565		
Natural gas	1.95%	732,015	3,897	0%	746,573	3,975	0%	746,573	3,975	680,774	3,625		
Gasoline	4.65%	141,054	1,259	0%	147,933	1,321	0%	147,933	1,321	131,180	1,171		
Diesel	4.65%	163,176	2,082	0%	136,907	1,398	0%	136,907	1,398	151,754	1,936		
Biodiesel	4.65%	0		0%	34,227	278	0%	34,227	278	0	0		
TOTAL		23,975			24,776			24,776		22,297		10.00%	10.00%
Evanston													
Source													
Electricity - Residential	4.20%	211,224,987	149,856	3.01%	227,121,983	160,313	6.45%	234,706,680	165,667	196,439,238	139,366		
Electricity - Commercial	6.00%	490,932,942	348,298	4.62%	546,397,919	385,672	9.90%	573,973,727	405,136	456,567,636	323,917		
Electricity - Rail	6.00%	25,195,719	17,875	4.62%	28,042,299	19,794	9.90%	29,457,548	20,792	23,432,018	16,624		
Natural Gas - Residential**	1.20%	21,279,611	113,298	0.91%	21,734,064	115,422	1.95%	21,958,060	116,612	19,790,038	105,367		
Natural Gas - Commercial**	1.95%	41,300,275	219,893	3.01%	43,389,508	230,427	6.45%	44,838,493	238,122	38,409,256	204,501		
Gasoline***	4.65%	10,642,769	95,030	3.22%	11,521,202	102,202	6.90%	11,931,956	105,845	9,897,775	88,378		
Diesel***	4.65%	2,415,843	24,666	3.22%	2,615,242	26,544	6.90%	2,708,480	27,490	2,246,734	22,939		
Solid Waste Landfilled	3.14%	2,415,843	9,404	2.10%	23,228	9,913	4.50%	23,774	10,146	20,493	8,746		
Organic Waste Composted	3.14%	4,441	-870	2.10%	4,681	-917	4.50%	4,791	-939	4,130	-809		
Mixed Recyclables Recycled	3.14%	7,504	-21,875	2.10%	7,910	-23,058	4.50%	8,096	-23,600	6,978	-20,344		
TOTAL		955,576			1,026,310			1,065,271		888,685		13.41%	16.58%
Citywide TOTAL		979,551			1,051,086			1,090,047		910,982			

*Growth rate per sector is based on the Energy Information Administration Annual Energy Outlook 2006 with Projections to 2030, US Department of Energy, 2006; US Census Bureau Interim Projections 2000-2050, 2004; Chicago Metropolitan Agency for Planning 2030 Population Forecasts; and the US Census 1990 and 2000. There was no growth assumed for the City of Evanston for 2012 and 2020.

** 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/Mfr/mfgallonage.pdf>; Data is from March 2005-February 2006