

TOTAL GREENHOUSE GAS EMISSIONS AND PERCENT CHANGE IN EMISSIONS, 2005, 2012, 2015, 2017

Year:			2005		2012		2015		2017	
Sector	Subsector	Units	Quantity	Emissions (MT CO ₂ e)	Quantity	Emissions (MT CO ₂ e)	Quantity	Emissions (MT CO ₂ e)	Quantity	Emissions (MT CO ₂ e)
Energy: Residential	Electricity	kWh	162,405,140	36,307	156,495,591	31,760	147,824,933	26,348	147,128,393	9,835
	Natural Gas	therm	12,052,342	64,065	11,912,241	63,219	10,073,557	53,598	10,658,238	56,675
Energy: Non-Residential	Electricity	kWh	503,351,244	112,528	508,365,572	103,170	479,302,547	85,431	439,137,301	28,380
	Natural Gas	therm	10,738,048	57,071	11,452,623	60,935	10,537,201	56,065	10,598,877	56,359
Energy - DA	Electricity	kWh	114,469,888	25,591	120,246,452	35,556	121,214,631	31,334	166,280,216	47,097
	Subtotal			295,562		294,651		252,776		198,346
Transportation	Passenger/Light Duty ¹	VMT	813,401,627	309,162	924,895,272	358,379	1,075,810,625	413,676	1,169,642,376	383,627
	Medium/Heavy Duty ²	VMT	53,125,543	64,915	42,493,564	53,339	34,592,996	43,243	39,442,342	51,084
	Subtotal			374,077		411,718		456,919		434,711
Waste	Solid Waste	tons	53,850	12,248	53,515	7,224* (13,589)	53,620	7,238* (14,307)	50,443	11,249
	Alternate Daily Cover	tons	246	77	4,205	1,319 * (1571)	1,130	355* (381)	961	1,298
	Subtotal			12,325		8,543* (15,160)		7,592* (14,688)		12,547
Water	Water Demand	Mgal	4,556	4,384*	3,852	2,326*	3,037	1,633* (110)	3,170	108
	Wastewater Treatment	Mgal	3,768	11,144*	2,828	6,922*	2,323	5,648* (1592)	3,073	1617
	Subtotal			15,529*		9,248*		7,281* (1,702)		1,725
Off-Road Mobile	Construction			4,793		35,278		41,878		66,868
	Lawn/Garden Equip.			1,767		1,868		1,918		2,339
	Subtotal			6,561		37,146		43,796		69,207
TOTAL				704,054		761,306		768,365		716,535

* Represents previously-reported values that are not considered directly comparable to 2017 emissions due to revisions or changes in methodology. Values in parentheses represent emissions estimates for previous years using the new methodology or data sources (where available) for comparison purposes with 2017 emissions. Attachment 4 details these differences.

Year:		2005 to 2017	2015 to 2017	2005	2012	2015	2017
Sector	Subsector	Change in MT CO ₂ e (%)	Change in MT CO ₂ e (%)	% of Emissions	% of Emissions	% of Emissions	% of Emissions
Energy: Residential	Electricity	-72.9%	-62.7%	5.2%	4.2%	3.4%	1.4%
	Natural Gas	-11.5%	5.7%	9.1%	8.3%	7.0%	7.9%
Energy: Non-Residential	Electricity	-74.8%	-66.8%	16.0%	13.6%	11.1%	4.0%
	Natural Gas	-1.2%	0.5%	8.1%	8.0%	7.3%	7.9%
Energy: Direct Access	Electricity	84.0%	50.3%**	3.6%	4.7%	4.1%	6.6%
	Subtotal	-32.9%	-21.5%	42.0%	38.7%	32.9%	27.7%
Transportation	Passenger/Light Duty ¹	24.1%	-7.3%	43.9%	47.1%	53.8%	53.6%
	Medium/Heavy Duty ²	-21.3%	18.1%	9.2%	7.0%	5.6%	7.1%
	Subtotal	16.2%	-4.9%	53.1%	54.1%	59.5%	60.7%
Waste	Solid Waste	-8.2%	55.4%**	1.7%	0.9%	0.9%	1.6%
	Alternate Daily Cover	1585.7%	266.0%	0.0%	0.2%	0.0%	0.2%
	Subtotal	1.8%	65.3%**	1.8%	1.1%	1.0%	1.8%
Water	Water Demand	-97.5%**	-93.4%**	0.6%	0.3%	0.2%	0.0%
	Wastewater Treatment	-85.5%**	-71.4%**	1.6%	0.9%	0.7%	0.2%
	Subtotal	-88.9%**	-76.3%**	2.2%	1.2%	0.9%	0.2%
Off-Road Mobile	Construction	1295.0%	59.7%	0.7%	4.6%	5.5%	9.3%
	Lawn/Garden Equipment	32.3%	21.9%	0.3%	0.2%	0.3%	0.3%
	Subtotal	954.9%	58.0%	0.9%	4.9%	5.7%	9.7%
TOTAL		1.8%	-6.7%				

Note: Numbers may not add due to rounding

** Represents a percentage change between years that is comparing two different methodologies for calculating emissions or other inconsistency in data between inventory years, and do not accurately indicate a change in emissions from this sector.

¹ Passenger/Light Duty transportation category includes all passenger vehicles and light duty trucks of all fuel types. VMT for electric vehicles is included but does not contribute to GHG emissions.

² Medium/Heavy Duty transportation category includes all medium and heavy duty vehicles of all fuel types.