



Department of Environmental Protection

New Jersey Statewide Greenhouse Gas Emissions Inventory Update: 2015 Estimates (2017 Edition)

Table 1. Estimated NJ Greenhouse Gas Emissions, 2005-2015 (100-year GWP)

Values are in million metric tons CO₂e.

SECTOR	1990	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Notes
ENERGY													
Commercial	10.7	10.8	9.2	10.6	10.2	10.8	10.6	11.3	10.1	10.6	12.3	10.8	
Industrial	19.8	17.3	16.3	15.9	13.9	10.6	9.1	10.3	10.3	9.7	9.7	5.1	
Residential	15.2	16.3	13.7	15.6	14.9	15.2	14.2	13.6	12.1	14.7	16.1	15.5	
Transportation													
On-Road Gasoline	28.9	38.0	38.1	39.0	38.2	37.3	36.8	36.1	35.3	34.3	34.7	34.8	
Distillate	5.6	10.8	10.8	11.4	9.9	7.9	8.9	10.2	8.7	8.8	9.3	8.8	
Jet Fuel	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	*1
Residual Fuel	1.0	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	*2
Other	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.4	0.4	0.4	0.4	
Electricity													
In-State Electric	12.4	19.8	18.5	22.7	19.1	15.0	17.7	15.1	15.1	14.0	18.0	16.9	
Imported Electric	14.1	13.1	11.7	11.9	10.0	7.7	7.7	6.8	5.2	4.9	2.9		*3
MSW Incineration	n/a	0.8	0.8	1.0	0.8	0.8	0.7	0.7	0.6	0.8	0.8	0.8	*3a



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NON-ENERGY													
Halogenated Gases (excl. SF ₆)	0.0	3.0	3.2	3.2	3.3	3.4	3.9	4.0	4.1	4.6	4.8	5.0	*4a
SF ₆	1.0	0.4	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.2	0.2	0.1	*4a
Agriculture	0.6	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.3	0.3	*4
Natural Gas Transmission & Distribution	2.5	2.4	2.6	2.6	2.6	2.5	2.5	2.5	2.5	2.3	2.3	2.2	*4b
Landfills													
In-State	11.7	3.6	3.5	3.5	3.4	3.3	3.3	3.2	3.2	3.0	3.3	3.6	
Out-of-State	2.6	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	*5
Industrial	1.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	
POTWs	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.2	*6
Released through Land Clearing	0.6	1.8	1.8	0.3	0.3	0.3	0.3	0.3	0.3	1.0	1.0	1.0	*7
Other Industrial and Non-Fuel Related	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.3	0.3	*4
TOTAL GROSS EMISSIONS	129.6	142.3	134.6	142.2	131.1	119.3	120.1	119.2	112.0	113.4	119.9	109.0	
Sequestered	-4.0	-6.0	-6.0	-7.6	-7.6	-7.6	-7.6	-7.6	-7.6	-8.1	-8.1	-8.1	*7
TOTAL NET EMISSIONS	125.6	136.3	128.6	134.6	123.5	111.7	112.5	111.6	104.4	105.3	111.8	100.9	

This is an archived document. To find the most recent edition of the Greenhouse Gas Inventory visit, www.state.nj.us/dep/aqes/oce-ghgei.html



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Notes:

*1 set equal to 1 MMT in effort to account for in-state only

*2 estimated to represent in-state only per methods of NJ GHG Inventory & Reference Case Projections 1990-2020, NJDEP, Nov. 2008, assumed same 2005 thru 2012

*3 2015 value negligible as in-state generation approximately equaled retail electricity purchased by NJ .

*3a 1990 value from NJ GHG Inventory & Reference Case Projections 1990-2020, NJDEP, Nov. 2008, includes MSW incineration.

*4 2005 value from NJ GHG Inventory & Reference Case Projections 1990-2020, NJDEP, Nov. 2008; 2006 thru 2009 assumed equal to 2005. 2010 to 2015 Agr. from NJDEP

*4a based on U.S. data from EPA, apportioned to NJ based on population for HFCs, based on elec. use for SF₆

*4b Through 2009, based on pipeline data from US DOT. 2010 through 2012 assumed the same as 2009. Values for 2013-2015 estimated using EPA State GHG Inventory Tool (SGIT).

*5 values from 2009 - 2012 assumed equal to 2008 and 2007. Out-of-state landfill estimated as fraction of in-state total based on American Society of Civil Engineers (ASCE) scorecard report for NJ.

*6 earlier values have been adjusted; assumed equal to newly-calculated value for 2008 & 2009; 2010 thru 2015 from NJDEP

*7 all values updated per NJDEP calculations.

MSW - municipal solid waste

SF₆ - sulfur hexafluoride

T&D - transmission and distribution

MMT - million metric tons

POTW - Publicly Owned Treatment Works

CO₂e - carbon dioxide equivalent