

Department of Environmental Protection

New Jersey Greenhouse Gas Inventory and Reference Case Projections 1990-2020 (2008 Edition) *Table 1. Historical and Reference Case GHG Emissions (100-year GWP)*

Values are in million metric tons CO₂e.

SECTOR	1990	2000	2005	2010	2020	Notes
ENERGY	111.9	118.4	130.4	131.2	145.1	
Electricity						
Electricity, Production-Based	12.4	20.2	20.3	17.9	31.7	
Coal	6.9	10.7	9.6	12.4	15.6	*1
Natural Gas	3.6	7.4	8.3	4.1	13.4	
Oil	1.7	0.9	1.1	0.0	0.0	
Wood (CH4 and N20)	0.01	0.03	0.0	0.0	0.0	
Refuse and biomass	0.2	1.3	1.3	1.4	2.7	*2
Net Imported Electricity	14.1	7.3	13.1	18.8	10.9	
Electricity, Consumption-Based	26.5	27.5	33.4	36.7	42.6	
Residential/Commercial/Industrial	46.3	43.4	45.1	39.4	41.4	
Coal	0.7	0.033	0.029	0.029	0.030	*3
Natural Gas	20.5	25.6	26.2	22.9	26.0	*4
Oil	25.0	17.7	18.8	16.4	15.3	*3*4
Wood (CH4 and N20)	0.14	0.09	0.08	0.08	0.08	*3
Transportation	36.6	45.2	49.5	52.7	58.6	
On-Road Gasoline	29.8	35.6	38.9	41.1	44.3	*5
On-Road Diesel	4.22	6.76	7.63	8.54	11.0	*5
Marine Vessel	1.01	1.35	1.48	1.56	1.79	
Rail, Natural Gas, LPG, other	0.63	0.48	0.48	0.51	0.55	*5
Jet Fuel and Aviation Gasoline	1.00	1.00	1.00	1.00	1.00	*6
Fossil Fuel Industry	2.5	2.2	2.4	2.5	2.6	



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Industrial Processes	1.3	2.9	4.0	5.5	8.6	
Nitric Acid Production	0.203	0.001	0.001	0.001	0.001	*7
Limestone and Dolomite Use (CO2)	0.000	0.003	0.005	0.005	0.004	*7
Soda Ash (CO2)	0.08	0.08	0.08	0.08	0.08	*8
ODS Substitutes (HFC, PFC)	0.01	2.41	3.59	5.16	8.37	*9
Electric Power T&D (SF6)	0.63	0.40	0.40	0.21	0.12	*10
Semiconductor Manufacturing (HFC, PFC, SF6)	0.01	0.03	0.03	0.02	0.01	*10
Laboratory use of SF6	0.33	0.02	0.02	0.02	0.02	*11
Waste Management	15.9	7.8	5.9	5.1	4.6	
Waste Combustion	0.0	0.0	0.0	0.0	0.0	*12
Landfills	15.4	7.3	5.4	4.5	4.0	*13
POTWs	0.45	0.52	0.54	0.57	0.64	*14
Agriculture	0.6	0.6	0.5	0.5	0.4	
Enteric Fermentation	0.13	0.09	0.08	0.07	0.06	
Manure Management	0.04	0.03	0.03	0.03	0.02	
Agriculture Soils	0.45	0.43	0.39	0.39	0.35	
Released through Land Clearing	1.1	1.1	1.1	1.1	1.1	*15
TOTAL GROSS EMISSIONS	130.8	130.8	142.1	143.4	159.9	
Sequestered	-7.5	-7.0	-6.7	-6.5	-5.9	*15
TOTAL NET EMISSIONS	123.2	123.8	135.3	136.9	154.0	
Increase in net emissions relative to 1990		<1%	10%	11%	25%	



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Notes:

- *All numbers are estimates; 1990 and 200 values are believed accurate to within 5%; projections are much less certain.
- *1 All electricity values based on NJBPU projections, see assumptions in Appendix A.
- *2 Under review; subject to revision
- *3 Based on USDOE data
- *4 Based on NJBPU projections
- *5 Based on USDOE regional projections
- *6 Estimated in-state portion of emissions only
- *7 Based on State's modeling forecast of manufacturing employment for 2006-2020
- *8 Based on 2004 and 2009 projections for U.S. production
- *9 EPA 2004 ODS cost study report
- *10 Based on national projections (USEPA)
- *11 Assumed no change from 2005 levels.
- *12 Captured under electricity production sector.
- *13 Includes waste landfilled out of state
- *14 Projections based on historical 1990 to 2005 average annual growth rate.
- *15 Based on NJDEP methodology; See Appendix H
- 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

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