

REDC GHG Emissions Roll Up Report

Year: 2010

(all emissions in Column D, when summed will equal the total County or REDC protocol compliant GHG emissions estimate)

Region / County Name: Central New York

Color Code

REQUIRED for the Roll Up Report, though some data may be zero, N/A, or considered to small to count
 Report NO Data in cell

Roll Up Report CGC. Emissions in MTCDE		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	511,339	508,852	342	2,145			
	Natural Gas	860,388	859,545	340	503			
	Propane / LPG	137,607	137,052	140	415			
	Distillate Fuel Oil (#1, #2, Kerosene)	202,973	202,292	172	509			
	Wood	9,089	-	3,094	5,995			
	Coal	17,855	17,730	40	85			
	Commercial Energy Consumption							
	Electricity / Steam	355,604	353,875	238	1,492			
	Natural Gas	656,587	655,943	260	384			
	Propane / LPG	35,676	35,535	36	105			
	Distillate Fuel Oil (#1, #2, Kerosene)	71,346	71,108	60	178			
	Residual Fuel Oil (#4 and #6)	68,014	67,788	57	169			
	Coal	1,172	1,163	3	6			
	Wood	1,209	-	412	798			
	Industrial Energy Consumption							
	Electricity / Steam	539,475	536,852	361	2,263			
	Natural Gas	433,574	433,150	172	253			
	Propane / LPG	2,724	2,714	3	8			
	Distillate Fuel Oil (#1, #2, Kerosene)	30,921	30,827	24	70			
	Residual Fuel Oil (#4 and #6)	7,509	7,484	6	19			
	Coal	60,502	60,035	148	319			
	Wood	746	-	254	492			
	Other	54,209	53,982	57	170			
	Energy Generation and Supply							
	Electricity T/D Losses	74,259	73,898	50	311			
	Natural Gas T/D Losses	259,363	-	259,363	-			
	Use of SF6 in the Utility Industry	19,476	-	-	-			19,476
	Industrial Processes							
	Cement Production	-	-	-	-			
	Iron and Steel Production	54,218	54,212	2	3			
	Aluminum Production	-	-	-	-			
Paper and Pulp	-	-	-	-				
Limestone Use	-	-	-	-				
Soda Ash Use	-	-	-	-				
Semi-Conductor Manufacturing	-	-	-	-				
Glass Production	12,541	12,541	-	-				
Chemical Manufacturing	-	-	-	-				
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	293,951	-	-	-		293,951		
Transportation Energy	On-road							
	Motor Gasoline (E-10)	3,096,862	3,052,120	3,033	41,709			
	Diesel	566,694	558,507	555	7,632			
	Ethanol	-	-	-	-			
	Biodiesel	-	-	-	-			
	Rail							
	Diesel	85,049	84,865	139	45			
	Electricity Consumption	-	-	-	-			
	Marine							
	Gasoline	51,171	51,171	-	-			
	Distillate	13,051	13,051	-	-			
	Residual Fuel Oil	54,605	54,605	-	-			
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	351,180	351,180	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	102,812	-	102,812	-			
	MSW incineration (non grid connected)	-	-	-	-			
	Sewage Treatment							
Central WWTPs and Septic Systems	77,046	-	53,266	23,780				
Agriculture	Livestock							
	Enteric Fermentation	396,591	-	396,591	-			
	Manure management	86,544	-	59,570	26,975			
	Crop Production and Soil Management							
	Use of Fertilizer	253,780	-	-	253,780			
Crop Residue Incineration	-	-	-	-				
Grand Totals	9,907,712.22	8,342,072.62	881,602	370,610	-	293,951	19,476	



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Region / County Name **Cayuga County**

Color Code

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 Report NO Data in cell

Roll Up Report CGC. Emissions in MTCDE		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	70,958	70,613	47	298			
	Natural Gas	94,164	94,071	37	55			
	Propane / LPG	25,809	25,705	26	78			
	Distillate Fuel Oil (#1, #2, Kerosene)	34,329	34,214	29	86			
	Wood	1,720	-	585	1,134			
	Coal	2,816	2,796	6	13			
	Commercial Energy Consumption							
	Electricity / Steam	56,476	56,201	38	237			
	Natural Gas	69,768	69,700	28	41			
	Propane / LPG	5,986	5,963	6	18			
	Distillate Fuel Oil (#1, #2, Kerosene)	10,128	10,094	9	25			
	Residual Fuel Oil (#4 and #6)	9,655	9,623	8	24			
	Coal	152	151	0	1			
	Wood	70	-	24	46			
	Industrial Energy Consumption							
	Electricity / Steam	71,043	70,697	48	298			
	Natural Gas	47,482	47,435	19	28			
	Propane / LPG	251	250	0	1			
	Distillate Fuel Oil (#1, #2, Kerosene)	2,544	2,536	2	6			
	Residual Fuel Oil (#4 and #6)	685	683	1	2			
	Coal	5,598	5,555	14	29			
	Wood	69	0	24	46			
	Other	5,012	4,994	4	13			
	Energy Generation and Supply							
	Electricity T/D Losses	10,480	10,429	7	44			
	Natural Gas T/D Losses	28,112		28,112				
	Use of SF6 in the Utility Industry	2,749						2,749
	Industrial Processes							
	Cement Production	-	-	-				
	Iron and Steel Production	54,218	54,212	2	3			
	Aluminum Production	-	-					
Paper and Pulp	-	-						
Limestone Use	-	-						
Soda Ash Use	-	-						
Semi-Conductor Manufacturing	-							
Glass Production	12,541	12,541	-					
Chemical Manufacturing	-	-						
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	29,704						29,704	
Transportation Energy	On-road							
	Motor Gasoline (E-10)	286,454	282,315	281	3,858			
	Diesel	42,416	41,804	42	571			
	Ethanol	-						
	Biodiesel	-						
	Rail							
	Diesel	8,710	8,692	14	5			
	Electricity Consumption							
	Marine							
	Gasoline	13,961	13,961					
	Distillate	3,195	3,195					
	Residual Fuel Oil	36,483	36,483					
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	48,721	48,721	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	29,995		29,995				
	MSW incineration (non grid connected)	-						
	Sewage Treatment							
Central WWTPs and Septic Systems	7,786		5,383	2,403				
Agriculture	Livestock							
	Enteric Fermentation	146,160		146,160				
	Manure management	31,609		21,736	9,872			
	Crop Production and Soil Management							
	Use of Fertilizer	111,330			111,330			
Crop Residue Incineration	-							
Grand Totals	1,419,334.69	1,023,631.79	232,686	130,564	-	29,704	2,749	



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Region / County Name **Cortland County**

Color Code

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		Roll Up Report CGC. Emissions in MTCDE						
		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	27,890	27,754	19	117			
	Natural Gas	50,645	50,596	20	30			
	Propane / LPG	9,238	9,201	9	28			
	Distillate Fuel Oil (#1, #2, Kerosene)	18,369	18,308	16	46			
	Wood	981	-	334	647			
	Coal	3,212	3,190	7	15			
	Commercial Energy Consumption							
	Electricity / Steam	18,640	18,549	12	78			
	Natural Gas	62,286	62,225	25	36			
	Propane / LPG	2,662	2,652	3	8			
	Distillate Fuel Oil (#1, #2, Kerosene)	6,733	6,711	6	17			
	Residual Fuel Oil (#4 and #6)	6,419	6,398	5	16			
	Coal	215	213	1	1			
	Wood	58	-	20	38			
	Industrial Energy Consumption							
	Electricity / Steam	22,858	22,747	15	96			
	Natural Gas	27,411	27,384	11	16			
	Propane / LPG	240	239	0	1			
	Distillate Fuel Oil (#1, #2, Kerosene)	2,440	2,431	2	6			
	Residual Fuel Oil (#4 and #6)	657	655	1	2			
	Coal	5,368	5,327	13	28			
	Wood	66	0	23	44			
	Other	4,806	4,789	4	13			
	Energy Generation and Supply							
	Electricity T/D Losses	3,664	3,646	2	15			
	Natural Gas T/D Losses	18,661		18,661				
	Use of SF6 in the Utility Industry	961						961
	Industrial Processes							
	Cement Production	-	-	-				
	Iron and Steel Production	-	-	-				
	Aluminum Production	-	-					
	Paper and Pulp	-	-					
Limestone Use	-	-						
Soda Ash Use	-	-						
Semi-Conductor Manufacturing	-							
Glass Production	-	-						
Chemical Manufacturing	-	-						
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	18,313						18,313	
Transportation Energy	On-road							
	Motor Gasoline (E-10)	239,705	236,242	235	3,228			
	Diesel	42,567	41,952	42	573			
	Ethanol	-						
	Biodiesel	-						
	Rail							
	Diesel	86	85	0	0			
	Electricity Consumption							
	Marine							
	Gasoline	556	556					
	Distillate	100	100					
	Residual Fuel Oil	-	-					
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	28,356	28,356	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	29,087		29,087				
	MSW incineration (non grid connected)	-						
	Sewage Treatment							
Central WWTPs and Septic Systems	4,800		3,318	1,481				
Agriculture	Livestock							
	Enteric Fermentation	52,894		52,894				
	Manure management	11,666		8,039	3,627			
	Crop Production and Soil Management							
	Use of Fertilizer	23,922			23,922			
Crop Residue Incineration	-							
Grand Totals	746,534.04	580,306.18	112,824	34,130	-	18,313	961	



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Region / County Name **Madison County**

Color Code

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		Roll Up Report CGC. Emissions in MTCDE						
		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	53,414	53,155	36	224			
	Natural Gas	49,473	49,425	20	29			
	Propane / LPG	15,793	15,729	16	48			
	Distillate Fuel Oil (#1, #2, Kerosene)	44,627	44,477	38	112			
	Wood	1,464	-	498	966			
	Coal	4,057	4,029	9	19			
	Commercial Energy Consumption							
	Electricity / Steam	34,173	34,007	23	143			
	Natural Gas	49,180	49,132	19	29			
	Propane / LPG	3,409	3,396	3	10			
	Distillate Fuel Oil (#1, #2, Kerosene)	12,254	12,213	10	30			
	Residual Fuel Oil (#4 and #6)	11,682	11,643	10	29			
	Coal	204	202	0	1			
	Wood	62	-	21	41			
	Industrial Energy Consumption							
	Electricity / Steam	21,197	21,094	14	89			
	Natural Gas	11,813	11,801	5	7			
	Propane / LPG	202	202	0	1			
	Distillate Fuel Oil (#1, #2, Kerosene)	2,055	2,048	2	5			
	Residual Fuel Oil (#4 and #6)	554	552	0	1			
	Coal	4,521	4,486	11	24			
	Wood	56	0	19	37			
	Other	4,048	4,034	4	11			
	Energy Generation and Supply							
	Electricity T/D Losses	5,744	5,716	4	24			
	Natural Gas T/D Losses	14,689		14,689				
	Use of SF6 in the Utility Industry	1,506						1,506
	Industrial Processes							
	Cement Production	-	-	-				
	Iron and Steel Production	-	-	-				
Aluminum Production	-	-						
Paper and Pulp	-	-						
Limestone Use	-	-						
Soda Ash Use	-	-						
Semi-Conductor Manufacturing	-							
Glass Production	-	-						
Chemical Manufacturing	-	-						
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	27,260						27,260	
Transportation Energy	On-road							
	Motor Gasoline (E-10)	306,394	301,967	300	4,127			
	Diesel	52,263	51,508	51	704			
	Ethanol	-						
	Biodiesel	-						
	Rail							
	Diesel	10,480	10,457	17	5			
	Electricity Consumption							
	Marine							
	Gasoline	1,669	1,669					
	Distillate	300	300					
	Residual Fuel Oil	-	-					
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	36,643	36,643	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	22,034		22,034				
	MSW incineration (non grid connected)	-						
	Sewage Treatment							
Central WWTPs and Septic Systems	7,145		4,940	2,205				
Agriculture	Livestock							
	Enteric Fermentation	86,862		86,862				
	Manure management	18,694		12,849	5,845			
	Crop Production and Soil Management							
	Use of Fertilizer	43,592			43,592			
Crop Residue Incineration	-							
Grand Totals	959,514.05	729,884.48	142,504	58,358	-	27,260	1,506	



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Region / County Name **Onondaga County**

Color Code

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 Report NO Data in cell

Roll Up Report CGC. Emissions in MTCDE		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	277,963	276,611	186	1,166			
	Natural Gas	586,081	585,506	232	342			
	Propane / LPG	31,618	31,491	32	95			
	Distillate Fuel Oil (#1, #2, Kerosene)	61,294	61,089	52	154			
	Wood	1,736	-	591	1,145			
	Coal	5,246	5,210	12	25			
	Commercial Energy Consumption							
	Electricity / Steam	209,490	208,471	140	879			
	Natural Gas	415,335	414,928	164	243			
	Propane / LPG	12,525	12,476	12	37			
	Distillate Fuel Oil (#1, #2, Kerosene)	30,884	30,781	26	77			
	Residual Fuel Oil (#4 and #6)	29,442	29,344	25	73			
	Coal	483	479	1	3			
	Wood	936	-	319	618			
	Industrial Energy Consumption							
	Electricity / Steam	387,481	385,597	259	1,625			
	Natural Gas	267,985	267,723	106	157			
	Propane / LPG	1,755	1,748	2	5			
	Distillate Fuel Oil (#1, #2, Kerosene)	17,812	17,752	15	45			
	Residual Fuel Oil (#4 and #6)	4,887	4,871	4	12			
	Coal	39,087	38,785	96	206			
	Wood	482	0	164	318			
	Other	35,034	34,875	40	119			
	Energy Generation and Supply							
	Electricity T/D Losses	46,197	45,972	31	194			
	Natural Gas T/D Losses	168,791		168,791				
	Use of SF6 in the Utility Industry	12,116						12,116
	Industrial Processes							
	Cement Production	-	-	-				
	Iron and Steel Production	-	-	-				
Aluminum Production	-	-						
Paper and Pulp	-	-						
Limestone Use	-	-						
Soda Ash Use	-	-						
Semi-Conductor Manufacturing	-							
Glass Production	-	-						
Chemical Manufacturing	-	-						
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	173,350						173,350	
Transportation Energy	On-road							
	Motor Gasoline (E-10)	1,817,486	1,791,228	1,780	24,478			
	Diesel	356,174	351,028	349	4,797			
	Ethanol	-						
	Biodiesel	-						
	Rail							
	Diesel	38,297	38,215	63	20			
	Electricity Consumption							
	Marine							
	Gasoline	7,344	7,344					
	Distillate	1,320	1,320					
	Residual Fuel Oil	4	4					
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	197,233	197,233	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	14,195		14,195				
	MSW incineration (non grid connected)	-						
	Sewage Treatment							
Central WWTPs and Septic Systems	45,436		31,412	14,024				
Agriculture	Livestock							
	Enteric Fermentation	92,451		92,451				
	Manure management	21,185		14,654	6,531			
	Crop Production and Soil Management							
	Use of Fertilizer	62,944			62,944			
Crop Residue Incineration	-							
Grand Totals	5,472,081.46	4,840,079.14	326,206	120,330	-	173,350	12,116	



REDC GHG Emissions Roll Up Report

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Region / County Name **Oswego County**

Color Code

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 Report NO Data in cell

		Roll Up Report CGC. Emissions in MTCDE						
		CO2e	CO2	CH4	N2O	PFC	HFC	SF6
Built Environment	Residential Energy Consumption							
	Electricity / Steam	81,114	80,719	54	340			
	Natural Gas	80,025	79,946	32	47			
	Propane / LPG	55,149	54,926	56	166			
	Distillate Fuel Oil (#1, #2, Kerosene)	44,353	44,204	38	111			
	Wood	3,188	-	1,085	2,103			
	Coal	2,523	2,506	6	12			
	Commercial Energy Consumption							
	Electricity / Steam	36,825	36,646	25	154			
	Natural Gas	60,017	59,958	24	35			
	Propane / LPG	11,093	11,049	11	33			
	Distillate Fuel Oil (#1, #2, Kerosene)	11,347	11,309	10	28			
	Residual Fuel Oil (#4 and #6)	10,817	10,781	9	27			
	Coal	118	117	0	1			
	Wood	83	-	28	55			
	Industrial Energy Consumption							
	Electricity / Steam	36,896	36,717	25	155			
	Natural Gas	78,884	78,806	31	46			
	Propane / LPG	276	275	0	1			
	Distillate Fuel Oil (#1, #2, Kerosene)	6,071	6,059	3	8			
	Residual Fuel Oil (#4 and #6)	726	723	1	2			
	Coal	5,928	5,882	15	31			
	Wood	73	0	25	48			
	Other	5,308	5,289	5	14			
	Energy Generation and Supply							
	Electricity T/D Losses	8,175	8,136	5	34			
	Natural Gas T/D Losses	29,110		29,110				
	Use of SF6 in the Utility Industry	2,144						2,144
	Industrial Processes							
	Cement Production	-	-	-				
	Iron and Steel Production	-	-	-				
Aluminum Production	-	-						
Paper and Pulp	-	-						
Limestone Use	-	-						
Soda Ash Use	-	-						
Semi-Conductor Manufacturing	-							
Glass Production	-	-						
Chemical Manufacturing	-	-						
Product Use (Ozone Depleting Substances)								
All Refrigerants- except utility SF6	45,324						45,324	
Transportation Energy	On-road							
	Motor Gasoline (E-10)	446,824	440,368	438	6,018			
	Diesel	73,274	72,215	72	987			
	Ethanol	-						
	Biodiesel	-						
	Rail							
	Diesel	27,476	27,416	45	14			
	Electricity Consumption							
	Marine							
	Gasoline	27,641	27,641					
	Distillate	8,136	8,136					
	Residual Fuel Oil	18,119	18,119					
	Off-road Mobile							
All Fuels (Diesel and Gasoline)	40,227	40,227	-	-				
Waste Management	Solid Waste Management							
	Landfill Methane (Scope 3)	7,500		7,500				
	MSW incineration (non grid connected)	-						
	Sewage Treatment							
Central WWTPs and Septic Systems	11,880		8,213	3,667				
Agriculture	Livestock							
	Enteric Fermentation	18,224		18,224				
	Manure management	3,391		2,292	1,099			
	Crop Production and Soil Management							
	Use of Fertilizer	11,991			11,991			
Crop Residue Incineration	-							
Grand Totals	1,310,247.99	1,168,171.04	67,381	27,227	-	45,324	2,144	