



Village Board Memo

Date: May 19, 2011

To: Village President and Board of Trustees

From: Cool Village Commission

RE: Cool Village Commission Report

This memo provides a report of the progress to the date of the various activities of the Cool Village Commission.

GHG Emissions Inventory

Since the last periodic report, the CVC completed its greenhouse gas (GHG) emissions baseline inventory. The Commission gathered data from ComEd, Nicor, Chicago Metropolitan Agency for Planning (CMAP), Allied Waste and Village staff. The data was entered into the Clean Air and Climate Protection 2009 software (CACP 2009), a program provided by ICLEI to its members.

Utilizing CACP 2009, the Commission generated reports reflecting community wide GHG emissions. The emissions are categorized by source and sector. Attached are reports reflecting the GHG emissions for the various community wide sectors: residential, commercial, transportation, and waste. The sources of the emissions are as follows: natural gas, electricity, fuel, and waste products. Additionally, CACP 2009 generated reports for GHG emissions from government operations, which also are broken down by source and by sector: buildings and facilities; streetlights; water delivery facilities; and, vehicle fleet. See attached reports.

The CVC is following the protocol provided by ICLEI. The next step requires a detailed analysis utilizing the generated reports. The CVC is developing a more complete inventory report, which shall identify the sectors that should be the focus of GHG emission reductions. This report shall be incorporated into the Sustainability Plan. Currently, the CVC is focused on identifying a realistic target reduction.

Sustainability Plan

The CVC has been drafting a customized Sustainability Plan for the Village of La Grange Park. The Commission has reviewed and analyzed several plans from various communities throughout the

country, comparing communities similar to the Village of La Grange Park so as to cater to the community's needs. The CVC is working to ensure that all relevant areas are covered in the Sustainability Plan.

Community Environmental Programs

Since the last periodic report, the CVC initiated an E-Waste Recycling event held at the Public Works facility. The event was a success. Over 400 cars passed through the parking lot and over 42 thousand pounds of electronics were picked up by Vintage Tech Recyclers. The E-Waste Recycling Day was scheduled to coincide with the Village's Clean Up Day. The CVC intends to hold this event same time next year.

The CVC has been evaluating the availability of electricity purchased through green power suppliers for Village of La Grange Park residents. In February, Alexis Cain of the EPA spoke to the Commission about renewable energy certificates. Utilizing e-briefs, the CVC will be educating the residents on the availability of purchasing electricity through green power suppliers.

The CVC partnered with the La Grange Park Police Department to participate in the DEA's National Drug Take Back Day on Saturday, April 30, 2011 at Village Hall from 10:00 a.m. to 2:00 p.m. The Police Department began taking in drugs from approximately 20 patrons before the event officially began. The DEA provided the Village with five (5) large boxes for collection and transport of the prescription drugs. The drugs were collected by hand by sworn police officers (as required per the DEA) and were stored behind secure doors within the Police Department. As of 1:15 p.m., all boxes were nearly filled. Overall, residents and program participants were especially receptive of the program and complimented the Village for participating. The CVC provided residents with educational materials on the benefits of keeping prescription drugs out of the water stream. Also provided were educational materials on the availability of purchasing green electricity through green power suppliers. Estimated attendance was 152 (this is likely a low and conservative number.)

Timeline

The Commission continues to track its progress of its work through a project timeline. The most recent timeline is attached to this memo. The Cool Village Commission will continue to keep the Board apprised of progress and new developments.

Attachments

Government Greenhouse Gas Emissions Report by Sector and Source
Government Greenhouse Gas Emissions Detailed Report
Community Greenhouse Gas Emissions Report by Source and Sector
Community Greenhouse Gas Emissions Detailed Report
Community Greenhouse Gas Emissions Time Series Report
Project Timeline

Government Greenhouse Gas Emissions in 2009 Report by Sector & Source

	CO ₂ (tonnes)	N ₂ O (kg)	CH ₄ (kg)	Equiv CO ₂ (tonnes) (%)		Energy (MMBtu)	Cost (\$)
Buildings and Facilities Sector							
Electricity	292	5	3	294	11.9	1,430	34,405
Natural Gas	1,270	2	120	1,273	51.8	23,937	0
Subtotal	1,562	7	123	1,567	63.7	25,367	34,405
Streetlights & Traffic Signals Sector							
Electricity	282	5	3	284	11.5	1,380	0
Subtotal	282	5	3	284	11.5	1,380	0
Water Delivery Facilities Sector							
Electricity	278	5	3	280	11.4	1,363	41,457
Subtotal	278	5	3	280	11.4	1,363	41,457
Vehicle Fleet Sector							
Biodiesel (B100)	0	0	0	0	0.0	26	0
Diesel	140	0	0	140	5.7	1,914	0
Gasoline	182	12	11	186	7.6	2,569	51,110
OFF ROAD Diesel	4	0	0	4	0.1	50	1,003
Subtotal	326	12	11	330	13.4	4,558	52,113
Total	2,449	29	141	2,461	100.0	32,668	127,975

Government Greenhouse Gas Emissions in 2009

Detailed Report

	CO ₂ (tonnes)	NO ₂ (kg)	CH ₄ (kg)	Equiv CO ₂ (tonnes)	(%)	Energy (MMBtu)	Cost (\$)
Buildings and Facilities							
1008-10 E. 31st Street - Electricity	11	0	0	11	0.5	54	0
1008-10 E. 31st Street - Natural Gas	299	1	28	300	12.2	5,637	0
1400 Scotdale Road - Electricity	5	0	0	5	0.2	23	0
1600 Barnsdale- Electricity	5	0	0	5	0.2	25	0
3147 Prairie - Electricity	2	0	0	2	0.1	9	0
447 N. Catherine Avenue - Electricity	267	4	3	268	10.9	1,306	34,405
447 N. Catherine- Natural Gas	971	2	91	973	39.6	18,300	0
Forest Road Unit - Electricity	3	0	0	3	0.1	13	0
Subtotal Buildings and Facilities	1,562	7	123	1,567	63.7	25,367	34,405
Streetlights & Traffic Signals							
Hwy Lt - Mtr - 1018 31st Street	17	0	0	17	0.7	83	0
Hwy Lt - Mtr - 223 E 31st Street	11	0	0	12	0.5	56	0
Hwy Lt - Mtr - 619 E 31st Street	18	0	0	18	0.7	88	0
Hwy Lt - UnMtr - 0 E La Grange Road	1	0	0	1	0.0	3	0
Hwy Lt - UnMtr - 601 N Dover	2	0	0	2	0.1	10	0
Hwy Lt - UnMtr - 0 ASHLAND	67	1	1	67	2.7	328	0
Hwy Lt - UnMtr - 0 Kenman	166	3	2	167	6.8	811	0
Subtotal Streetlights & Traffic Signals	282	5	3	284	11.5	1,380	0
Water Delivery Facilities							
937 & 939 Barnsdale - Electricity	278	5	3	280	11.4	1,363	41,457
Subtotal Water Delivery Facilities	278	5	3	280	11.4	1,363	41,457
Vehicle Fleet							
447 N. Catherine Avenue -Generator*	4	0	0	4	0.1	50	1,003
Administration- Gasoline	0	0	0	0	0.0	6	132
Building-Gasoline	1	0	0	1	0.0	10	210
DPW - Biodiesel							
Biodiesel (B002)	0	0	0	0	0.0	18	0
Diesel	98	0	0	98	4.0	1,340	28,051
DPW - Gasoline	26	2	1	27	1.1	367	7,319
Fire - Biodiesel							
Biodiesel (B002)	0	0	0	0	0.0	8	0
Diesel	42	0	0	42	1.7	574	12,022
Fire - Gasoline	13	1	1	14	0.5	187	3,770
Police - Gasoline	142	9	9	145	5.9	1,999	39,680
Subtotal Vehicle Fleet	326	12	11	330	13.4	4,558	92,186
Total	2,449	29	141	2,461	100.0	32,668	127,975

*off road diesel

Community Greenhouse Gas Emissions in 2009 Report by Sector & Source

	CO ₂ (tonnes)	N O ₂ (kg)	CH ₄ (kg)	Equiv CO ₂ (tonnes) (%)		Energy (MMBtu)
Residential Sector						
Electricity	31,088	520	369	31,257	23.4	152,109
Natural Gas	28,069	53	2,645	28,141	21.1	529,013
Subtotal	59,157	573	3,014	59,398	44.4	681,121
Commercial Sector						
Electricity	23,625	395	280	23,754	17.8	115,595
Natural Gas	11,413	22	1,076	11,443	8.6	215,103
Subtotal	35,039	416	1,356	35,196	26.3	330,697
Transportation Sector						
Diesel	5,266	16	17	5,272	3.9	71,996
Gasoline	32,318	2,157	1,756	33,023	24.7	455,949
Subtotal	37,584	2,173	1,772	38,295	28.7	527,945
Waste Sector						
Food Waste	0	0	4,604	97	0.1	
Paper Products	0	0	26,619	559	0.4	
Plant Debris	0	0	4,269	90	0.1	
Wood or Textiles	0	0	419	9	0.0	
Subtotal	0	0	35,910	754	0.6	
Total	131,780	3,162	42,052	133,643	100.0	1,539,764

This report has been generated for La Grange Park, Illinois using ICLEI's Clean Air and Climate Protection 2009 Software.

Community Greenhouse Gas Emissions in 2009 - Detailed Report

	CO ₂ (tonnes)	N ₂ (kg)	CH ₄ (kg)	Equiv CO ₂ (tonnes)	(%)	Energy (MMBtu)
Residential						
Residential - Electricity - Excluding Plymouth Place	26,865	449	318	27,011	20.2	131,448
Residential - Electricity - Plymouth Place	4,223	71	50	4,246	3.2	20,661
Residential - Gas - Supplied by Nicor	25,358	48	2,390	25,423	19.0	477,913
Residential - Gas - Supplied by Others	2,711	5	256	2,718	2.0	51,100
Subtotal Residential	59,157	573	3,014	59,398	44.4	681,121
Commercial						
Businesses - Electricity	15,099	252	179	15,181	11.4	73,879
Commercial - Gas - Supplied by Nicor	3,328	6	314	3,336	2.5	62,719
Commercial - Gas - Supplied by Others	7,624	14	718	7,643	5.7	143,686
Government - Electricity	8,526	143	101	8,572	6.4	41,715
Industrial - Gas - Supplied by Nicor	298	1	28	299	0.2	5,616
Industrial - Gas - Supplied by Others	164	0	15	164	0.1	3,082
Subtotal Commercial	35,039	416	1,356	35,196	26.3	330,697
Transportation						
Diesel Heavy Duty - Arterial	5,053	15	16	5,057	3.8	69,071
Diesel Heavy Duty - Local	150	0	0	150	0.1	2,051
Diesel Light Truck - Arterial	52	0	0	52	0.0	711
Diesel Light Truck - Local	3	0	0	3	0.0	38
Diesel Passenger Vehicle - Arterial	9	0	0	9	0.0	119
Diesel Passenger Vehicle - Local	0	0	0	0	0.0	7
Gasoline Heavy Duty - Arterial	1,593	91	109	1,623	1.2	22,471
Gasoline Heavy Duty - Local	46	3	3	47	0.0	650
Gasoline Light truck - Arterial	19,421	1,333	969	19,855	14.9	274,003
Gasoline Light Truck - Local	1,010	69	50	1,032	0.8	14,247
Gasoline Passenger Vehicle- Arterial	9,741	628	594	9,948	7.4	137,432
Gasoline Passenger Vehicle- Local	507	33	31	517	0.4	7,147
Subtotal Transportation	37,584	2,173	1,772	38,295	28.7	527,945
Arterial Total: 1,749	36,544			38,295	28.7	527,945
Waste						
Allied Waste Services						
Paper Products	0	0	26,619	559	0.4	
Food Waste	0	0	4,604	97	0.1	
Plant Debris	0	0	4,269	90	0.1	
Wood or Textiles	0	0	419	9	0.0	
Subtotal Waste	0	0	35,910	754	0.6	
Total	131,780	3,162	42,052	133,643	100.0	1,539,764

La Grange Park

Community Greenhouse Gas Emissions Time Series Report

Year	2009	2012	2020	2040
Residential				
eCO2 (tonnes)	59,398.2	59,551.4	59,673.9	59,982.8
Energy (MMBtu)	681,121.2	682,878.0	684,282.2	687,825.2
Cost (\$)	0.0	0.0	0.0	0.0
Commercial				
eCO2 (tonnes)	35,196.2	35,196.2	35,196.2	35,196.2
Energy (MMBtu)	330,697.5	330,697.5	330,697.5	330,697.5
Cost (\$)	0.0	0.0	0.0	0.0
Transportation				
eCO2 (tonnes)	38,294.9	39,837.0	40,729.0	45,734.7
Energy (MMBtu)	527,944.9	549,240.5	561,526.7	630,467.3
Cost (\$)	0.0	0.0	0.0	0.0
Waste				
eCO2 (tonnes)	754.1	756.1	757.6	761.5
Energy (MMBtu)	0.0	0.0	0.0	0.0
Cost (\$)	0.0	0.0	0.0	0.0
Total				
eCO2 (tonnes)	133,643.4	135,340.6	136,356.7	141,675.3
Energy (MMBtu)	1,539,763.6	1,562,815.9	1,576,506.3	1,648,990.0
Cost (\$)	0.0	0.0	0.0	0.0

