

2008 Greenhouse Gas Inventory

Loyola University Chicago
Lakeside Campuses



Office of
Sustainability



2008 Boundary

- Geography: Both Lakeside Campuses (Water Tower and Lake Shore)
- Activities: Directly and indirectly financed activities of Students, Staff and Faculty
- Time: Financial Year 2008 (July 1, 2007 – June 30, 2008)*

- Operating Budget = N/A
- Research Budget = \$4,324,211
- Energy Budget = \$8,121,355.43
- Endowment = N/A

- Full Time Students = 13,264
- Part Time Students = 2,181
- Residential Students = N/A
- Faculty = 1,664 (609 Full Time, 1,055 Part Time)
- Staff = 1,185 (1,041 Full Time, 97 Part Time)

- Total Building Space = 3,777,588 square feet

**Except Study Abroad Air Travel, This is collected on the annual year of 2008 (January 1 – December 31, 2008)*

Boundary – A boundary defines the limits of activities and timeframe within emissions are measured. This can include temporal, geographic, organizational, operational and other limits that are inventoried as part of this effort. For more detail see 2008 Emissions Inventory Narrative document.

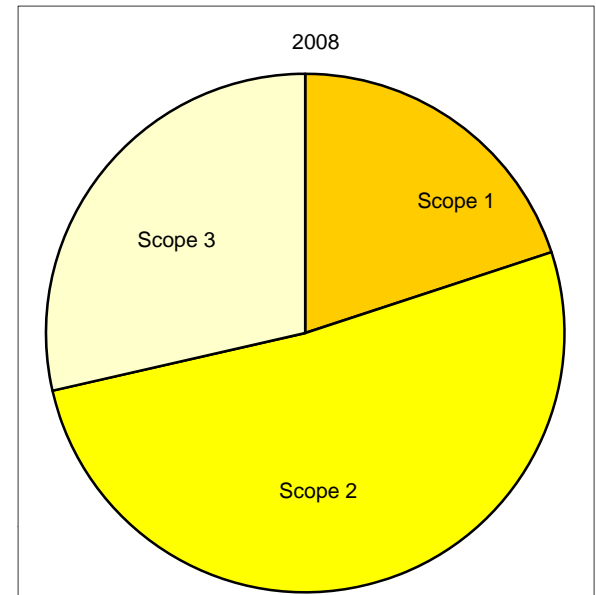
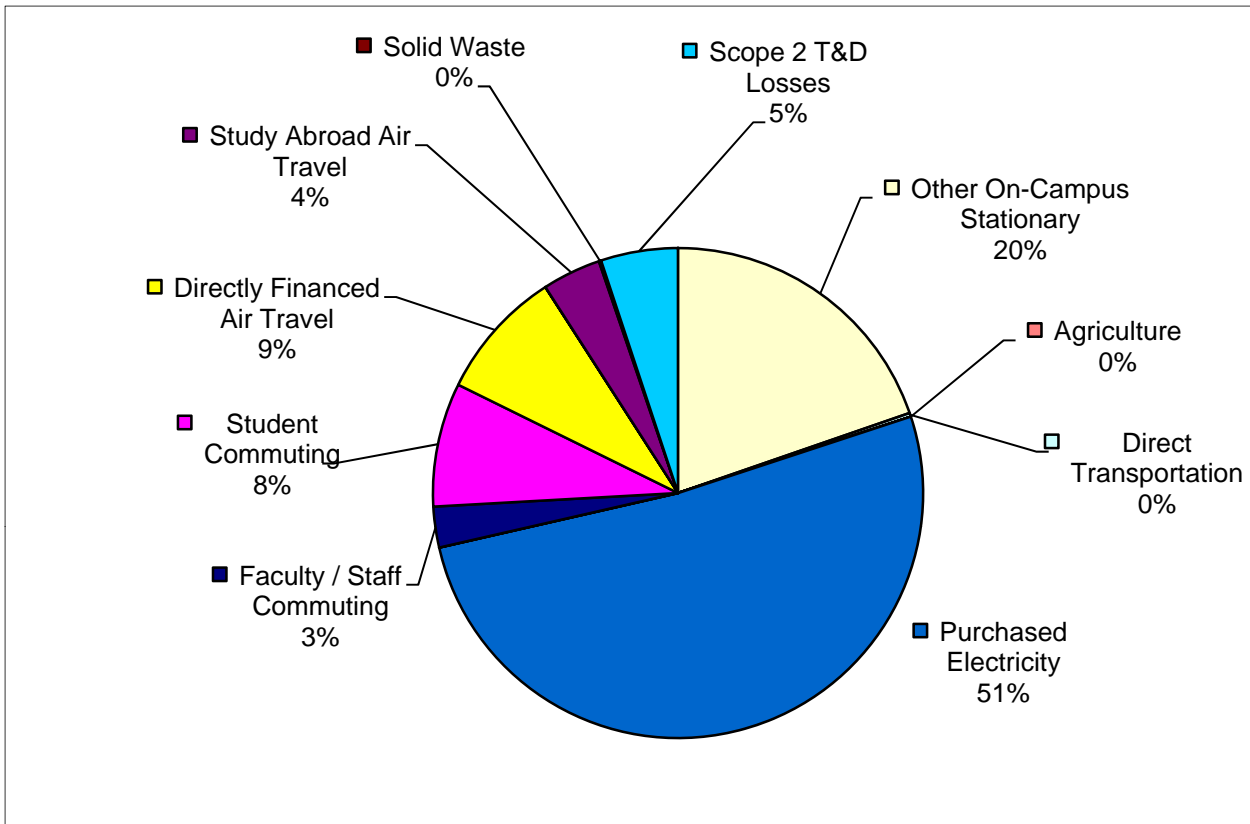
DATA COLLECTION	Measure	Unit
Scope 1		
On-Campus Stationary – Natural Gas	320,171	MMBtus
Direct Transportation – Gas	21,897	Gallons
Direct Transportation – Diesel	1,109	Gallons
Agriculture – Fertilizer	590	Lbs
Scope 2		
Purchased Electricity	62,508,571	kWh
Scope 3		
Student Commuting – Car	7,286,773.00	Miles
Student Commuting – Bus	6,856,949.00	Miles
Student Commuting – Train	8,109,000.00	Miles
Faculty/Staff Commuting – Car	3,107,013.00	Miles
Faculty/Staff Commuting – Bus	1,524,518.00	Miles
Faculty/Staff Commuting – Train	2,121,021.00	Miles
Faculty/Staff Air Travel	12,561,558	Miles
Study Abroad Travel	5,647,954	Miles
Landfilled Waste	895.4	Tons
Offsets		
On-campus Composting	N/A	Tons
Green Power Certificates	1,172,378	kWh

For additional detail, see 2008 GHG Emissions Inventory Narrative document



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Per FTE	Per 1,000 sq.ft.	
1.23	4.54	Scope 1
3.18	11.71	Scope 2
1.76	6.50	Scope 3
6.17	22.74	All Scopes
-0.06	-0.22	All Offsets
6.11	22.52	Net Emissions

FY 2008 Net Emissions:

- Per FTE Student = **6.11** Metric Tons of Carbon Dioxide Equivalents
- Per 1,000 Square Feet = **22.52** Metric Tons of Carbon Dioxide Equivalents
- Total Emissions = **85,085.5** Metric Tons of Carbon Dioxide Equivalents

	2008	Energy Consumption	CO ₂	CH ₄	N ₂ O	eCO ₂	% of Total Emissions
		MMBtu	kg	kg	kg	Metric Tonnes	percent
Scope 1	Other On-Campus Stationary	320,170.5	16,879,159.0	1,688.9	33.8	16,931.4	19.71%
	Direct Transportation	2,874.2	203,289.6	41.5	13.9	208.5	0.24%
	Agriculture	-	-	-	8.3	2.5	0.00%
Scope 2	Purchased Electricity	482,076.0	43,984,771.8	524.4	758.2	44,223.8	51.47%
Scope 3	Faculty / Staff Commuting	30,123.2	2,269,345.1	295.6	109.4	2,309.3	2.69%
	Student Commuting	90,133.8	6,920,381.3	706.2	278.7	7,021.1	8.17%
	Directly Financed Air Travel	36,824.1	7,368,347.1	71.2	81.8	7,394.5	8.61%
	Study Abroad Air Travel	16,556.9	3,312,971.6	32.0	36.8	3,324.7	3.87%
	Solid Waste	-	-	5,012.2	-	125.3	0.15%
	Scope 2 T&D Losses	47,677.8	4,350,142.3	51.9	75.0	4,373.8	5.09%
Offsets	Additional					-	0.00%
	Non-Additional					(829.6)	-0.97%
Totals	Scope 1	323,044.7	17,082,448.5	1,730.4	56.0	17,142.4	19.95%
	Scope 2	482,076.0	43,984,771.8	524.4	758.2	44,223.8	51.47%
	Scope 3	221,315.9	24,221,187.3	6,169.2	581.7	24,548.8	28.57%
	All Scopes	1,026,436.6	85,288,407.6	8,424.0	1,396.0	85,915.0	
	All Offsets					(829.6)	-0.97%
Net Emissions:						85,085.5	99.03%