

2012 Greenhouse Gas Inventory

Loyola University Chicago
Lakeside Campuses



Office of
Sustainability



2012 Boundary

- Geography: Both Lakeside Campuses (Water Tower and Lake Shore)
- Activities: Directly and indirectly financed activities of Students, Staff and Faculty
- Time: Financial Year 2012 (July 1, 2011 – June 30, 2012)*

- Operating Budget = \$445,900,000
- Research Budget = \$5,720,483
- Energy Budget = \$5,792,213
- Endowment = \$400,304,000

- Full Time Students = 13,094
- Part Time Students = 2,546
- Residential Students = 3,816
- Faculty = 1,748 (630 Full Time, 1,118 Part Time)
- Staff = 1,442 (1,312 Full Time, 130 Part Time)

- Total Building Space = 4,094,573 square feet

**Except Study Abroad Air Travel, This is on the annual year of 2012*

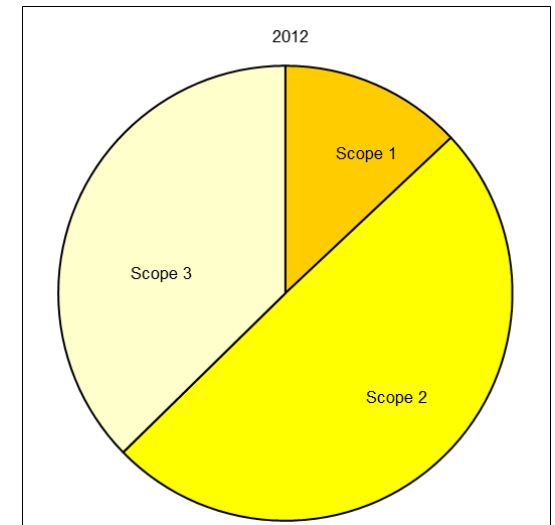
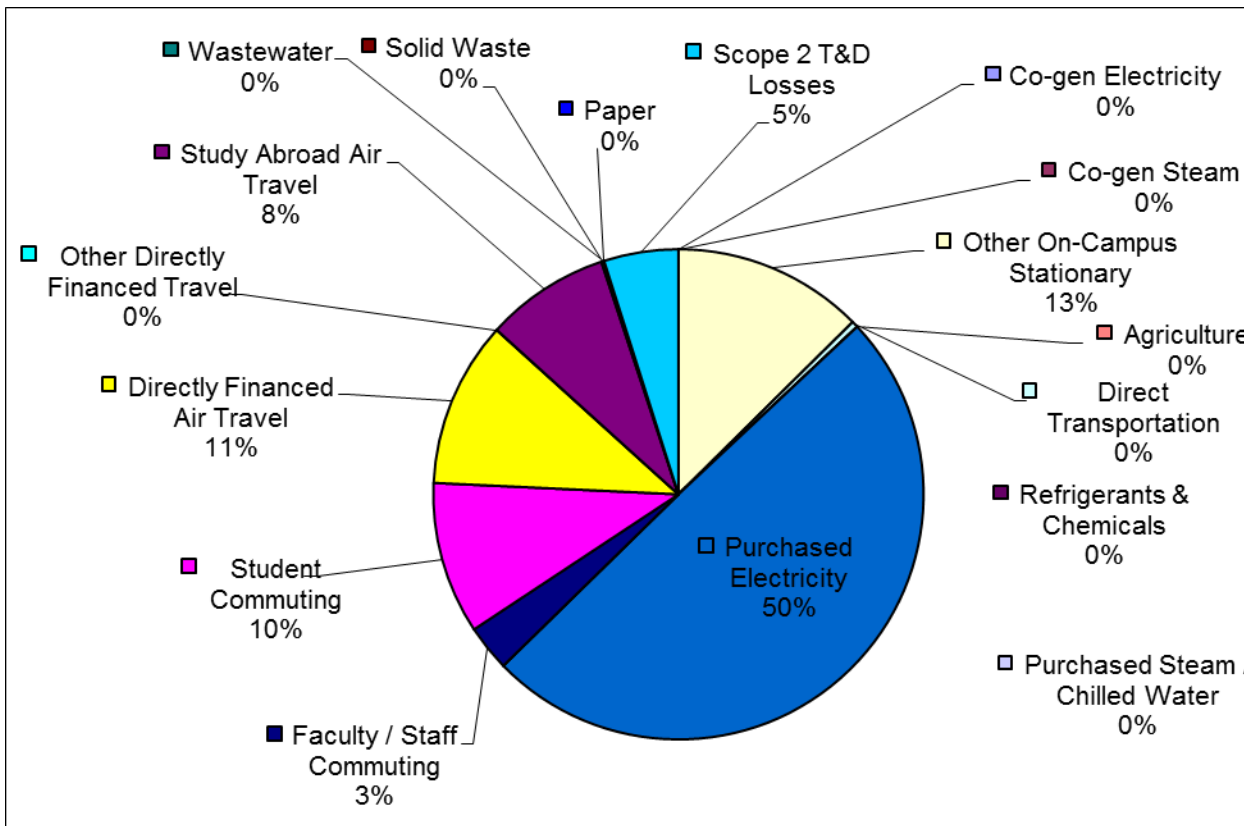
Boundary – A boundary defines the limits of activities and timeframe within emissions are measured. This can include temporal, geographic, organizational, operational and other limits that are inventoried as part of this effort. For more detail see 2011 Emissions Inventory Narrative document.

NOTE: In this year's inventory we were able to add the travel (air, gas and diesel miles) from the Athletics Department. This had been omitted in previous years but it was undertaken as a student project and included as Directly Financed Travel.



DATA COLLECTION	Measure	Unit
Scope 1		
On-Campus Stationary – Natural Gas	178,253	MMBtus
Direct Transportation – Gas	33,050	Gallons
Direct Transportation – Diesel	1,739	Gallons
Agriculture – Fertilizer	590	Lbs
Scope 2		
Purchased Electricity	53,621,592	kWh
Scope 3		
Student Commuting – Car	8,000,875	Miles
Student Commuting – Bus	7,528,929	Miles
Student Commuting – Train	8,903,681	Miles
Faculty/Staff Commuting – Car	3,263,857	Miles
Faculty/Staff Commuting – Bus	1,601,477	Miles
Faculty/Staff Commuting – Train	2,228,092	Miles
Faculty/Staff Air Travel	13,875,950	Miles
Directly Financed Travel – Air	54,856	Miles
Directly Financed Travel – Gas	7,772	Miles
Directly Financed Travel – Diesel	34,621	Miles
Study Abroad Travel	10,420,528	Miles
Landfilled Waste	972	Tons
Offsets		
On-campus Composting	5	Tons
Green Power Certificates	1,590,448	kWh





Per FTE	Per 1,000 sq.ft.	
0.70	2.38	Scope 1
2.67	9.08	Scope 2
2.01	6.83	Scope 3
5.37	18.29	All Scopes
-0.08	-0.27	All Offsets
5.29	18.02	

FY 2012 Net Emissions:

- Per FTE Student = 5.29 Metric Tons of Carbon Dioxide Equivalents
- Per 1,000 Square Feet = 18.02 Metric Tons of Carbon Dioxide Equivalents
- Total Emissions = 73,780.6 Metric Tons of Carbon Dioxide Equivalents

	2012	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 (Natural Gas)	178,252.9	9,397,367.5	940.3	18.8	9,426.5	12.59%
	Direct Transportation	4,347.3	307,502.8	62.6	21.1	315.3	0.42%
	Agriculture	-	-	-	8.3	2.5	0.00%
Scope 2	Purchased Electricity	402,156.7	36,984,388.8	449.9	650.5	37,189.5	49.66%
Scope 3	Faculty / Staff Commuting	29,687.0	2,232,770.5	304.7	111.8	2,273.7	3.04%
	Student Commuting	96,763.7	7,405,221.3	776.7	304.1	7,515.3	10.04%
	Directly Financed Air Travel	40,838.1	8,171,519.2	79.0	90.8	8,200.5	10.95%
	Other Directly Financed Travel	190.3	13,822.3	1.2	0.5	14.0	0.02%
	Study Abroad Air Travel	30,547.7	6,112,463.7	59.1	67.9	6,134.2	8.19%
	Solid Waste	-	-	5,443.2	-	136.1	0.18%
	Scope 2 T&D Losses	39,773.7	3,657,796.7	44.5	64.3	3,678.1	4.91%
	Offsets	Additional					(1.9)
Non-Additional						(1,103.1)	-1.47%
Totals	Scope 1	182,600.2	9,704,870.4	1,002.9	48.2	9,744.3	13.01%
	Scope 2	402,156.7	36,984,388.8	449.9	650.5	37,189.5	49.66%
	Scope 3	237,800.6	27,593,593.7	6,708.3	639.3	27,951.8	37.33%
	All Scopes	822,557.5	74,282,852.9	8,161.1	1,338.0	74,885.6	
	All Offsets					(1,105.0)	-1.48%
	Net Emissions:						73,780.6