

Emerson College

FY 17 Sustainability Solutions Qualification

Dan Willman and David Gillick

University of Toledo University of Vermont University of Washington University of West Florida University of Wisconsin - Madison Vanderbilt University Virginia Commonwealth University Wake Forest University Washburn University **Washington State University** Washington State University - Tri-Cities Campus Washington State University - Vancouver Washington University in St. Louis Wayne State University Wellesley College Wesleyan University West Chester University West Virginia Health Science Center West Virginia University Western Oregon University Westfield State University Widener University Williams College Worcester Polytechnic Institute **Worcester State University**



FY17 Base Data Summary



Scope 1

- On-Campus Stationary Sources Collected
- Direct Transportation Services Need Facilities
- Refrigerants & Chemicals Collected

Scope 2

- Electricity Collected
- Steam Collected

Scope 3

- Faculty, Staff, & Student Commuting Collected
- Directly Financed Outsourced Travel Collected
- Study Abroad Travel Collected
- Solid Waste Collected
- Wastewater Collected
- Paper Collected
- Offsets Collected





Scope 1





Usage (Cost)

\$1,753.93

\$12,050,81

FY17 On-Campus Stationary Sources

AMOUNT

\$ 13,638.34

\$ 13,252.65

\$ 12,219.28

\$ 8,657.87

\$ 3,106.15

\$ 2,775.47

\$ 3,168.77

\$ 7,724.19

\$ 7,961.59

\$ 6,496.72

\$ 9,254.69

831.44

44.85

353.05

FY17 Base Data Provided by Kristen Nicholas

FY16 Consumption 58.8k MMBtu FY17 Consumption 73.6k MMBtu

GAS SALES/THERMS

15,877

15,428

14,225

10,079

411.00

4,280.00

5,793.00

14,121.00

14,555.00

11,877.00

16,919.00

1,520.00

82.00

3,616

Spark invoice report

READ DATES

12/8/15-1/5/16

1/5/16 - 2/3/16

2/3/16 - 3/4/16

3/4/16-4/6/16

4/6/16-5/4/16

5/4/16-6/7/16

6/7/16-7/6/16

7/6/16-8/5/16

8/5/16-9/6/16

9/6-10/5/16

10/5-11/7/16

11/7/16-12/6/16

12/6/16-1/3/17

1/3/17-2/2/17

2/2/17-3/2/17

3/2/17-4/5/17

4/5/17-5/4/17

6/2/17-6/5/17

5/4-6/2

National Grid FY 17

35

End Date 7/3/2017

6/7/2017

	6/ //2	2017 35	133825 ACTUAL	84	,870	87,102	\$12,050.81
	5/3/2	2017 29	125338 ESTIMATE	1	,990	2,043	\$5,026.99
	4/4/2	2017 33	125139 ESTIMATE	2	,270	2,335	\$6,212.48
	3/2/2	2017 27	124912 ESTIMATE	1	,870	1,923	\$5,081.27
	2/3/2	2017 31	124725 ESTIMATE	2	,180	2,242	\$5,839.21
	1/3/2	2017 32	124507 ESTIMATE	2	,240	2,303	\$6,025.33
	12/2/2	2016 31	124283 ESTIMATE	2	,170	2,229	\$5,837.68
HERMS	ΔΜ	OUNT	UTILITY FUEL	ΔΜ	OUNT	7,166	\$1,994.25
TILITIVIS	Aivi	00141	OTILITITOEL	Alvi	00111	11,575	\$2,727.69
						6,149	\$1,768.76
673	\$	286.72				2,186	\$1,441.15
4,864	\$	(2,206.34)				1,971	\$1,301.55
508	\$	(315.56)				4,438	\$5,953.21
238	\$	(122.39)				2,404	\$5,695.00
			47	ć	14.50	1,993	\$4,850.82
323	\$	210.49	17	\$	14.60	288	\$671.30
272	\$	169.17	0	\$	-	6,549	\$15,132.62
282	\$	162.94	0	\$	-	7,016 11,343	\$1,761.91 \$2,664.57
281.00	\$	155.19	0	\$	-	6,373	\$1,836.01
254	\$	162.94	0			15,004	\$23,466.59
1,607.00	\$	(611.42)	183	\$	118.82	12,232	\$5,796.33
2,887.00	\$	698.84	235	\$	128.54	14,878	\$7,667.23
	\$		573	\$		8,186	\$2,052.48
159.00		(25.89)			313.43	10,463	\$2,480.70
591.00	\$	323.28	591	\$	323.28	6,176	\$1,723.58
			482	\$	263.65	12,137	\$3,537.89
6,158.00	\$	(219.44)	686	\$	375.24		
1,332.00	\$	327.22	62	\$	33.91		
4,458.00	\$	1,069.92	0	\$	-		
85.00	\$	(24.31)	3	\$	1.64	on Rotch	10 Boylston

Days In Bill Meter Read Read Type Usage (CCF) Usage (Therms)

5,840

84 870

134409 ESTIMATE

133825 ACTUAL

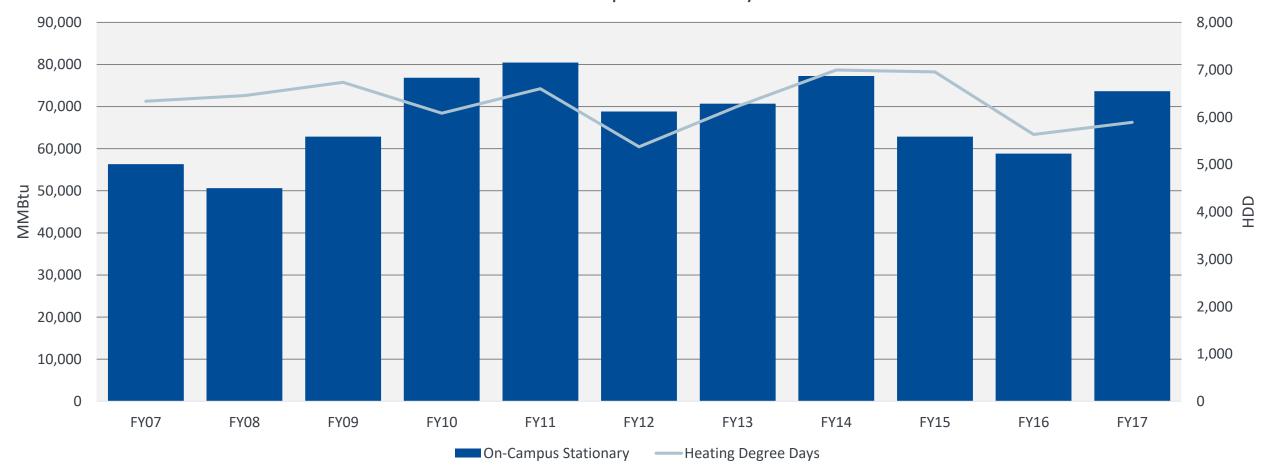


GAS SOLD/BOUGHT IN MARKET/THERMS





Historical On-Campus Stationary Sources



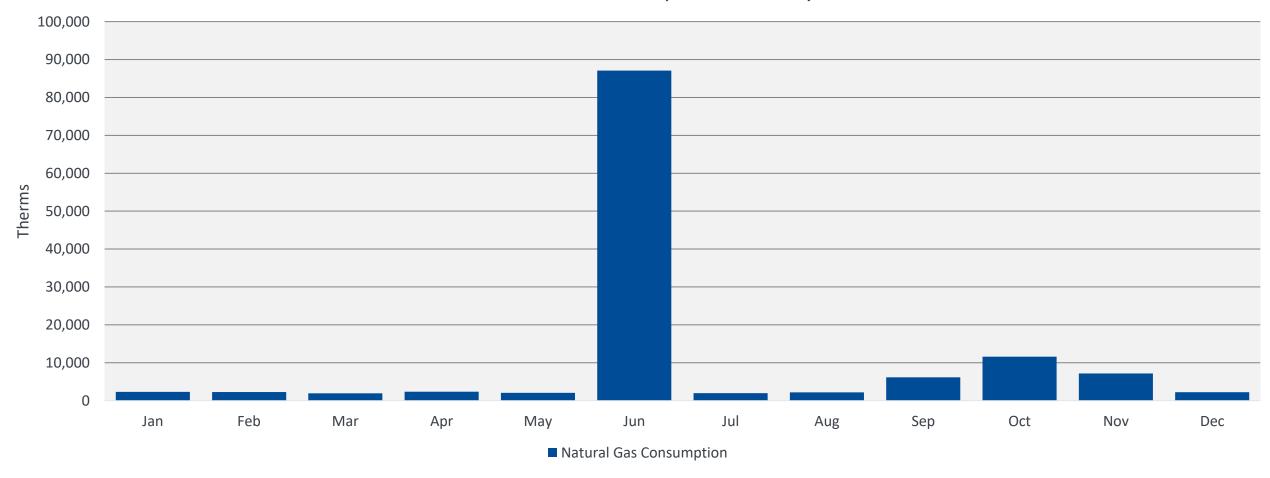






Data Sourced from National Grid FY17.xcl

FY17 Natural Gas Consumption in 10 Boylston





FY17 Athletic and Facilities Fleets



Facilities Fleet Data

Facilities Fleet Info

Chevrolet, Silverado 2005

Fuel (gasoline): 16 city, 23 highway

Miles: 14,901

Driven ~10 miles/week all year (530mi total)

Contact: Nestor Carranza

Nestor carranza@emerson.edu

Total Gallons Consumed in FY16: 1,609 Athletic Fleet Data

From: Erin Brennen < erin brennen@emerson.edu>

Date: Fri, Sep 29, 2017 at 10:45 AM

Subject: Re:

To: Amy Elvidge <amy elvidge@emerson.edu>

Cc: phillip mcelroy@emerson.edu

Hi Amy,

We spent \$1120.16 on gas and mileage reimbursements. \

Thanks, Erin

> Total Gallons Consumed in

FY17: 912





FY17 Base Data Provided by Amy Elvidge

Refrigerants and Chemicals

From: Joseph Knoll < joseph knoll@emerson.edu>

Date: Thu, Oct 12, 2017 at 11:02 AM
Subject: Emerson College Refrigerant Log
To: Amy Elvidge amy_elvidge@emerson.edu>

Emerson College Refrigerant Log Fiscal Year 7/1/2016 - 6/30/2017:

- 120 Boylston Street Barnes & Noble Trane unit = 30 lbs R-22
- 80 Boylston Street Sterling 3rd floor = 9 lbs R-22
- 80 Boylston Street Carrier chiller = 31 lbs R-22
- 2 Spruce Street Carrier 2nd floor = 2 lbs R-22
- 10 Boylston Place McQuay chiller 1 = 60 lbs R-22
- 10 Boylston Place McQuay chiller 1 = 30 lbs R-22

Total R-22 = 162 lbs

Joseph Knoll | Director of Facilities Management

Emerson College | 120 Boylston Street, Boston, MA 02116-4624

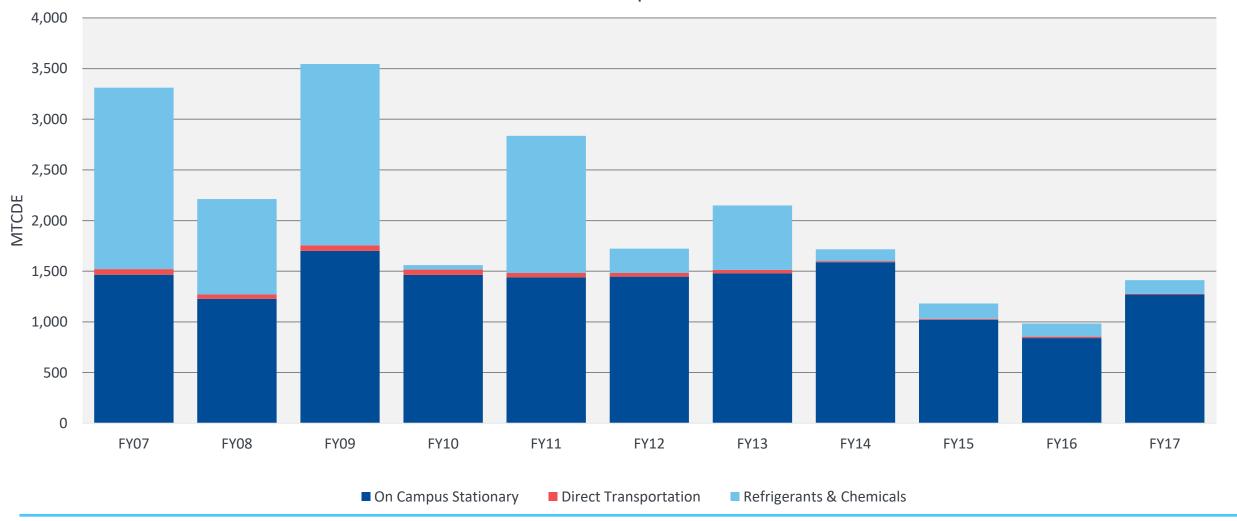
joseph knoll@emerson.edu| 617-824-8112



Historical Scope 1 MTCDE



Historical Scope 1 MTCDE







Scope 2



FY17 Electricity



286.72 (2,206.34) (315.56) (122.39)

FY17 Base Data Provided by Kristen Nicholas

FY16 Consumption 19.8M kWh FY17 Consumption 21.4M kWh

READ DATES	GAS SALES/THERMS	AMOUNT	GAS SOLD/BOUGHT IN MARKET/THERMS	AM	OUNT
12/8/15-1/5/16	15,877	\$ 13,638.34			
1/5/16 - 2/3/16	15,428	\$ 13,252.65	673	\$	28
2/3/16 - 3/4/16	14,225	\$ 12,219.28	4,864	\$	(2,20
3/4/16-4/6/16	10,079	\$ 8,657.87	508	\$	(31
4/6/16-5/4/16	3,616	\$ 3,106.15	238	\$	(12
			323	\$	21

803500 REPORT TOTAL									
acilities	SUMMARY								
	Accounted Budget July though June:			Year-to-Date					Available Balance
	FY 15	FY 16	FY 17		FY 15	FY 16	FY 17		
	\$ 2,587,135.00	\$ 2,602,692.00	\$ 2,583,892.00	July	\$ 137,211.57	\$ 203,083.51	\$ 111,657.21		
		\$ 2,559,772.00		August	\$ 300,858.07	\$ 393,983.33	\$ 299,537.83		
		\$ 2,557,447.00	\$ 2,622,367.00	September	\$ 525,314.90	\$ 561,712.09	\$ 541,750.10		
		\$ 2,602,447.00		October	\$ 620,450.87	\$ 816,698.94	\$ 772,750.88		
	\$ 2,677,135.00		\$ 2,660,001.94	November	\$ 918,950.05	\$ 995,251.73	\$ 994,053.39		
			\$ 2,663,361.94	December	\$ 1,115,428.07	\$ 1,191,452.68	\$ 1,206,028.11		
	\$ 2,712,896.00	\$ 2,622,106.00	\$ 2,672,315.94	January	\$ 1,332,459.50	\$ 1,364,610.93	\$ 1,423,455.33		
			\$ 2,676,978.94	February	\$ 1,549,797.77	\$ 1,546,513.77	\$ 1,634,754.59		
	\$ 2,703,956.00			March	\$ 1,740,722.96	\$ 1,722,819.40	\$ 1,868,353.46		
				April	\$ 1,916,212.97	\$ 1,954,554.57	\$ 2,064,586.61		
				May	\$ 2,140,613.00	\$ 2,153,869.76	\$ 2,314,337.81		
				June	\$ 2,386,511.21	\$ 2,392,747.49	\$ 2,632,321.27		
			JUNE						
				FY 15 Budget	FY 16 Budget	FY 17 Budget	Y-T-D '15	Y-T-D '16	Y-T-D '17
		61031	CWS Allocation						
		61200	Exempt Ben Elig	\$ 524,911.00	\$ 502,864.25	\$ 513,735.63	\$ 458,926.00	\$ 472,131.44	\$ 584,068.2
		61206	Non-Exempt Ben Elig	\$ 1,326,798.00	\$ 1,375,929.75	\$ 1,452,516.31	\$ 1,378,804.24	\$ 1,373,237.51	\$ 1,370,885.2
		61220	ОТ	\$ 220,000.00	\$ 220,000.00	\$ 220,000.00	\$ 222,806.82	\$ 192,283.25	\$ 222,054.7
		61300	Student Wages	\$ -			\$ 9,973.00	\$ 20,191.21	\$ 3,655.0
		61306	Emerson Employ	\$ 5,600.00	\$ 5,600.00	\$ 5,600.00		·	
	81400 & 81500	61400	Temp Help	\$ 62,950.00		\$ -	\$ 72,278.70	\$ 33,165.00	\$ 17,064.0
		69011	Life/ADD	\$ -		\$ -			,
	80700 & 80800	71000	Office Supplies					\$ 9,423.38	\$ 13,362.9

	323		>	210.49					
ſ	272		۸	169.17					
	Are we able to receive L	OCa	ali	zed 2.94					
Fuel Mix data?									
	Tuer with uata:			2.94					
	1,607.00		\$	(611.42)					
	2,887.00		\$	698.84					
	159.00		\$	(25.89)					
	591.00		\$	323.28					
	6,158.00		\$	(219.44)					
	1,332.00		\$	327.22					
	4,458.00		\$	1,069.92					
	85.00		\$	(24.31)					







FY17 Base Data Provided by Kristen Nicholas

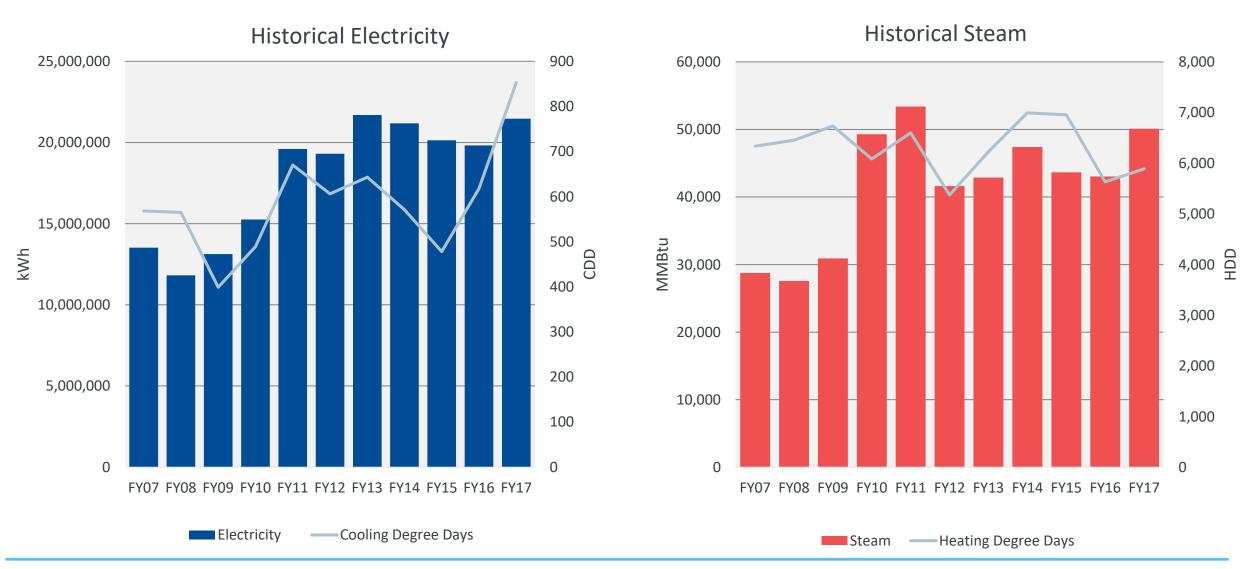
Account								
Number	Customer	Service Address	Period	MLBS	Commodity	Capacity	Invoice Total	HDD's
Fiscal Year Jul	y 2016 to June 2017	,						
0528537520	Emerson College	543-651 Washington Street	Jul 2016	645	\$6,166.20	\$11,273.00	\$17,439.20	7
0528537520	Emerson College	543-651 Washington Street	Aug 2016	553	\$5,585.30	\$11,273.00	\$16,858.30	0
0528537520	Emerson College	543-651 Washington Street	Sep 2016	760	\$7,866.00	\$11,273.00	\$19,139.00	40
0528537520	Emerson College	543-651 Washington Street	Oct 2016	688	\$6,515.36	\$11,273.00	\$17,788.36	311
0528537520	Emerson College	543-651 Washington Street	Nov 2016	803	\$10,125.83	\$11,273.00	\$21,398.83	539
0528537520	Emerson College	543-651 Washington Street	Dec 2016	1,149	\$24,393.27	\$11,273.00	\$35,666.27	897
, 0528537520	Emerson College	543-651 Washington Street	Jan 2017	1,369	\$25,131.19	\$11,273.00	\$36,404.19	938
0528537520	Emerson College	543-651 Washington Street	Feb 2017	1,231	\$20,661.54	\$11,273.00	\$31,934.54	804
0528537520	Emerson College	543-651 Washington Street	Mar 2017	1,353	\$22,410.71	\$11,273.00	\$33,683.71	946
0528537520	Emerson College	543-651 Washington Street	Apr 2017	874	\$10,112.18	\$11,439.00	\$21,551.18	431
0528537520	Emerson College	543-651 Washington Street	May 2017	790	\$8,152.80	\$11,439.00	\$19,591.80	310
, 0528537520	Emerson College	543-651 Washington Street	Jun 2017	877	\$8,805.08	\$11,439.00	\$20,244.08	54
			Totals	11.092	\$155,925.46	\$135,774.00	\$291,699.46	5,277

FY16 Consumption: 43k MMBtu FY17 Consumption: 50k MMBtu



Historical Electricity & Steam



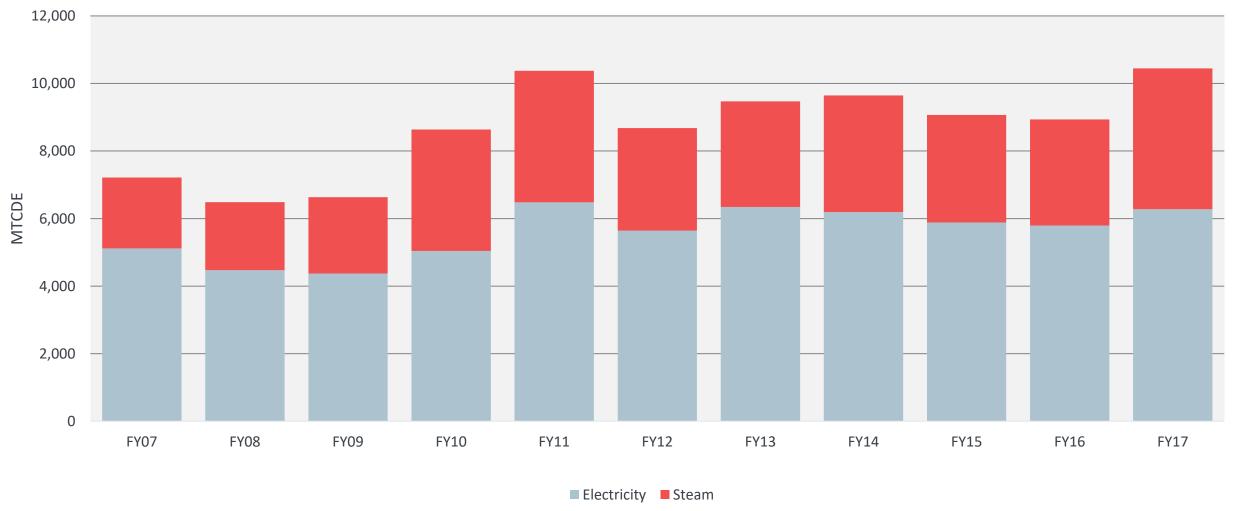
















Scope 3







Commuting Study done every 2 years; FY16 data applied to FY17

4	Α	В	С	D	E	F	G	Н	I
1		Where do yo	u live locally	while attending Em	erson College?				
_	Are you a resident or non-resident						Are you taking 12 or more		
2		City	State	Zip Code	Arrive	Depart	credits this semester?	Monday	Tuesday
3	Non-Resident (live off campus)	Somerville	MA	02143	8:30-9:00AM	7:00-8:00PM			Public transportation (bus, si
4	Non-Resident (live off campus)	Boston		02114	After 9:00AM	After 8:00PM	Yes		Public transportation (bus, si
5	Non-Resident (live off campus)	Boston	MA	02116	8:30-9:00AM	7:00-8:00PM	Yes	Walk	Walk
6	Non-Resident (live off campus)	Boston	MA	02115	After 9:00AM	After 8:00PM	Yes	Public transportation (t	Public transportation (bus, si
7	Non-Resident (live off campus)	Cambridge	MA	02140	After 9:00AM	After 8:00PM	Yes	Public transportation (t	Public transportation (bus, si
8	Non-Resident (live off campus)	Cambridge	MA	02139	After 9:00AM	5:30-6:00PM	Yes	Public transportation (I	Public transportation (bus, so
9	Non-Resident (live off campus)	Allston	MA	02134	After 9:00AM	4:30-5:00PM	Yes	Public transportation (t	Public transportation (bus, so
10	Non-Resident (live off campus)	Somerville	Ma		After 9:00AM	After 8:00PM	Yes	Public transportation (t	Public transportation (bus, so
11	Non-Resident (live off campus)	Norton	MA	02766	After 9:00AM	7:00-8:00PM	Yes	Off campus (vacation,	Ride in a 2-6 person carpool
12	Non-Resident (live off campus)	Boston	MA	02111	6:00-7:00AM	4:00-4:30PM	Yes	Walk	Walk
13	Non-Resident (live off campus)	Boston	MA	02114	8:00-8:30AM	7:00-8:00PM	Yes	Walk	Walk
14	Non-Resident (live off campus)	Boston	MA	02115	8:00-8:30AM	After 8:00PM	Yes	Public transportation (t	Off campus (vacation, sick,
15	Non-Resident (live off campus)	Boston	Ma	02135	After 9:00AM	4:00-4:30PM	Yes	Public transportation (t	Public transportation (bus, su
16	Non-Resident (live off campus)	boston	ma	02116	8:30-9:00AM	After 8:00PM	No	Off campus (vacation,	Walk
17	Non-Resident (live off campus)	Allston	MA	02134	After 9:00AM	After 8:00PM	Yes	Public transportation (I	Public transportation (bus, si
18	Non-Resident (live off campus)	Cambridge	MA	02140	8:00-8:30AM	Before 4:00F	Yes	Public transportation (t	Public transportation (bus, su
19	Non-Resident (live off campus)	Medford	Ma	02155	8:00-8:30AM	6:00-7:00PM	Yes	Public transportation (t	Public transportation (bus, si
20	Non-Resident (live off campus)	Cambridge	Ma	02141	After 9:00AM	After 8:00PM	Yes	Public transportation (I	Public transportation (bus, si
21	Non-Resident (live off campus)	Brookline	MA	02445	After 9:00AM	7:00-8:00PM	No	Off campus (vacation,	Public transportation (bus, si
22	Non-Resident (live off campus)	Boston	MA	02120	After 9:00AM	4:00-4:30PM	No	Public transportation (t	Telecommute (work from hor
23	Non-Resident (live off campus)	brighton	ma	02135	7:30-8:00AM	After 8:00PM	Yes	Public transportation (I	Public transportation (bus, si
24	Non-Resident (live off campus)	Brookline	MA	02445	After 9:00AM	4:00-4:30PM	Yes	Public transportation (t	Public transportation (bus, si
25	Non-Resident (live off campus)	Allston		02134	After 9:00AM	After 8:00PM	Yes	Public transportation (t	Public transportation (bus, si
26	Non-Resident (live off campus)	Allston	MA	02134	7:30-8:00AM	5:30-6:00PM	Yes	Public transportation (I	Public transportation (bus, si
27	Non-Resident (live off campus)	Brighton	MA	02135	7:30-8:00AM	4:00-4:30PM	Yes	Off campus (vacation,	Public transportation (bus, si
28	Non-Resident (live off campus)	Mansfield	MA	02048	After 9:00AM	5:30-6:00PM	Yes	Off campus (vacation,	Public transportation (bus, si
29	Non-Resident (live off campus)	Allston	MA	02134	After 9:00AM	After 8:00PM	Yes	Public transportation (t	Public transportation (bus, su
30	Non-Resident (live off campus)	Attleboro	MA	02703	6:00-7:00AM	6:00-7:00PM	Yes	Public transportation (t	Public transportation (bus, su
31	Non-Resident (live off campus)	Allston	MA	02134	8:00-8:30AM	After 8:00PM	Yes	Public transportation (I	Public transportation (bus, si
32	Non-Resident (live off campus)	27 Egremont	MA	02135	After 9:00AM	After 8:00PM	Yes		Public transportation (bus, su
33	Non-Resident (live off campus)	Boston	MA	02114	After 9:00AM	After 8:00PM	Yes	Walk	Walk
34	Non-Resident (live off campus)	Boston	MA	02115	After 9:00AM	After 8:00PM	No	Walk	Public transportation (bus, si
35	` '	Cambridge	MA	02139	After 9:00AM	Before 4:00F	Yes	Public transportation (t	Public transportation (bus, se
36		Allston		02134	After 9:00AM	After 8:00PM	Yes		Public transportation (bus, si
37			MA	02139	After 9:00AM	After 8:00PM			Public transportation (bus. si
		Rooton	Ma	02425	7-20 9-00 AM	6:00 7:00DM		Dublic transportation (

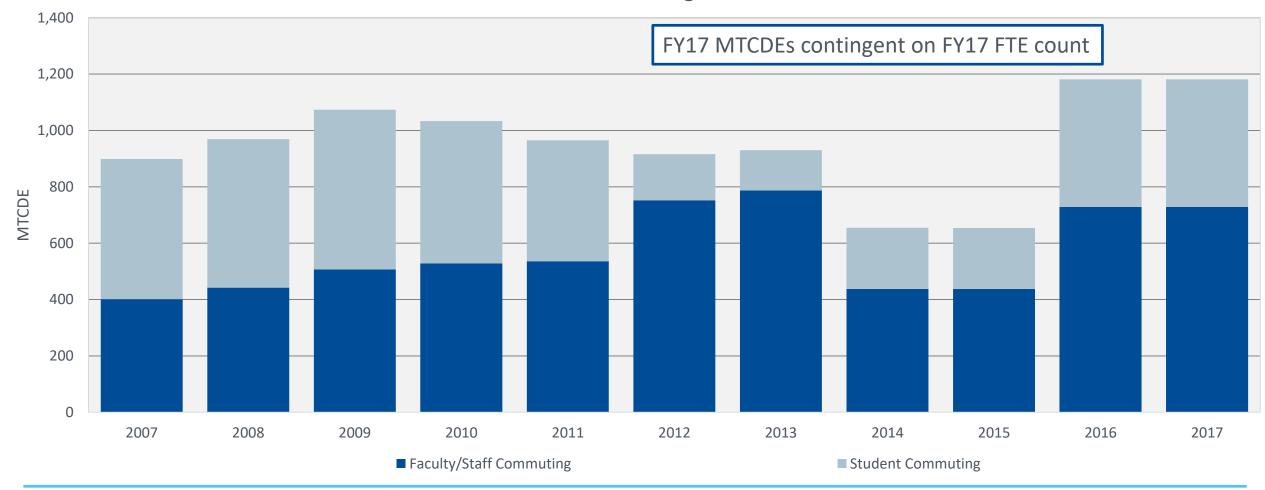
Trip Distribution	FY14%	FY16%
Student % Carbon Free	68%	14%
Student % Drive Alone	1%	3%
Student % Carpool	0%	3%
Student % Bus	0%	20%
Student % Commuter Rail	31%	60%

Trip Distance	FY14 Miles	FY16 Miles
Carbon Free	2	2
Drive Alone	15	8
Carpool	1	7
Bus	1	4
Commuter Rail	7	4





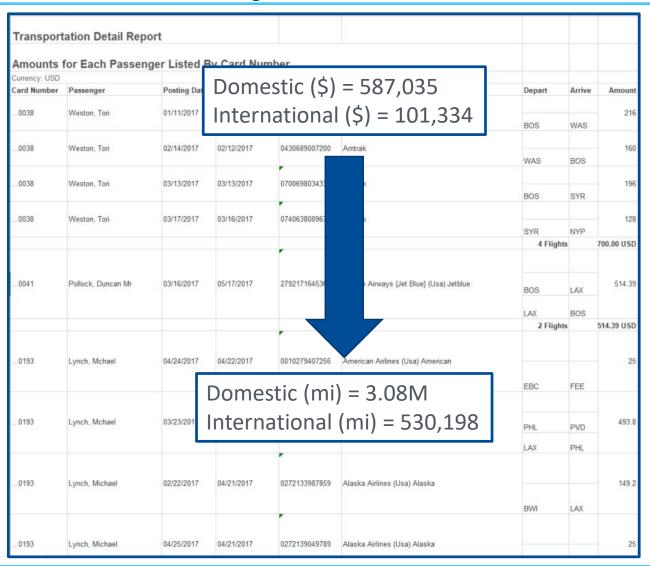
Historical Commuting Emissions

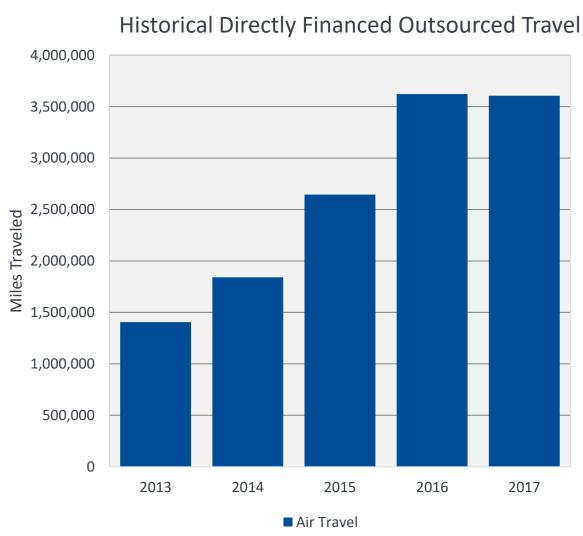












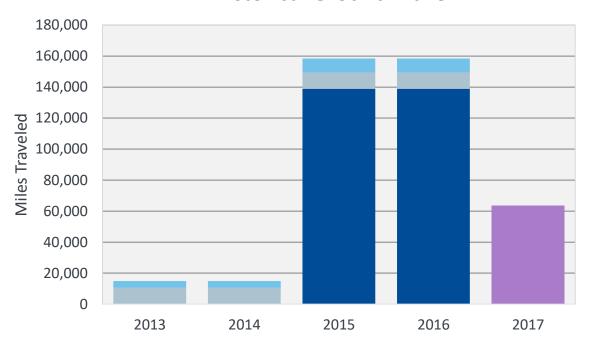


FY17 Directly Financed Outsourced Travel



MCC Description ■ Merchant Name Amount Cardholder Name 1 Aer Lingus AERLING 2GN6UB ORCHAR \$1,790.47 ROBERT ORCHARD Aer Lingus AERLING 2C8WV2 HALBER \$660.67 MJ HALBERSTADT Aer Lingus 7713195957 LI AERLING \$1,004.87 DAVID GRIFFIN Aer Lingus AERLING 7747406427 LE \$910.93 SHAYLIN HOGAN Aer Lingus AERLING 2G4B5J ORCHAR \$801.38 ROBERT ORCHARD Aer Lingus AERLING 7807848844 MA \$1,804.13 ANTHONY L PINDER Aer Ling We have not received Air Travel document for FY17 Aer Ling Aer Ling Is the Transportation Detail Report linked in any Aer Ling Aer Ling way to Air Travel Document? Aer Ling Aer Ling Aeromexico AEROMEXICO CALL CENTER \$772.05 RAMONA OSTROWSKI Air Canada AIR CANADA 0142152015785 \$85.80 KENDRA RAFFERTY Air Canada AIR CANADA 0142152016297 \$250.07 KENDRA RAFFERTY Air Canada AIR CANADA 0142152015046 \$101.71 KENDRA RAFFERTY Air Canada AIR CANADA 0142152015046 \$25.00 KENDRA RAFFERTY Air Canada AIR CANADA 0142152015785 \$21.61 KENDRA RAFFERTY Air Canada AIR CANADA 0142152015785 \$21.61 KENDRA RAFFERTY ATD CANADA 01/2152016207 #20 25 VENIDRA BACCEDTY

Historical Ground Travel



							. ,.				0	
Ground Travel												
Train	Miles	-	-	-	-	-	-	-	-	-	-	63,737
Taxi / Ferry / Rental Car	Miles	-	-	-	-	-	-	-	-	138,941	138,941	-
Bus	Miles	10,534	10,534	10,534	10,534	10,534	10,534	10,534	10,534	10,534	10,534	-
Alternative Fuel Bus	Miles	-	-	-	-	-	-	-	-	-	-	-
Personal Mileage Reimbursement	Miles	4,312	4,312	4,312	4,312	4,312	4,312	4,312	4,312	8,956	8,956	-

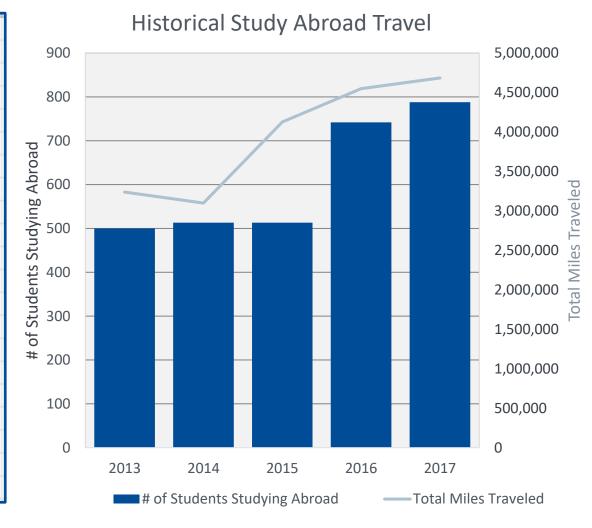


■ Taxi/Ferry/Rental Car ■ Bus ■ Personal Mileage Reimbursement ■ Train

FY17 Study Abroad Travel



	Fall 2016	Spring 2017	Summer 2017	Totals
Semester				
Kasteel Well	85	82	21	188
Emerson Los Angeles	186	206	0	392
Berklee Valencia	6	6	0	12
Washington, D.C.	19	0	0	19
Non Affiliated Education Abroac	14	29	6	49
Short Term Faculty Led				
Aix en Provence, France	0	0	9	9
Havana, Cuba	0	0	16	16
Barcelona, Spain	0	0	16	16
Patmos, Greece	0	0	12	12
London, United Kingdom	0	0	12	12
Prague, Czech Republic	0	0	20	20
Co. Clare, Ireland	0	0	16	16
Medellin, Colombia	0	0	13	13
Rosarito, Mexico	0	0	8	8
Salzburg, Austria	0	0	6	6
Totals	310	323	155	788



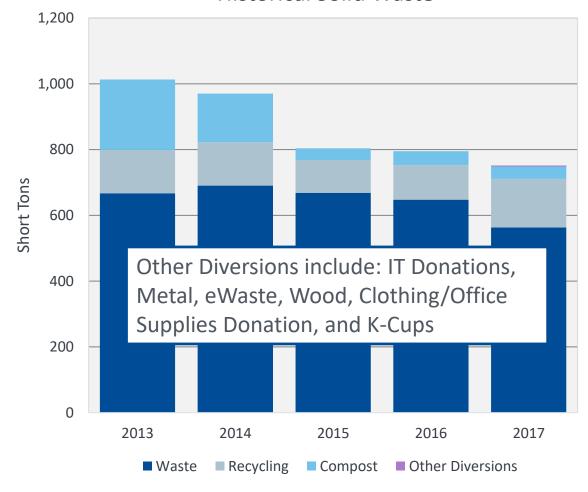


FY17 Solid Waste



EMERSON				
Summary				
	Single Stream	Cardboard	Compost	MSW
Jul-16	2.78	4.26	1.08	17.69
August	3.79	3.91	0.06	38.3
September	10.24	8.01	2.81	62.41
October	10.39	5.38	3.33	61.81
November	9.83	5.45	5.05	54.3
December	9.04	3.53	4.79	58.79
January	6.53	4.18	2.73	39.31
February	10.35	4.71	4.93	51.24
March	9.94	3.79	4.36	59.21
April	9.79	6.74	5.52	48.85
May	7.54	2.67	3.01	45.21
June	4.13	1.12	0.08	25.81
Total	94.35	53.75	37.75	562.93

Historical Solid Waste





FY17 Wastewater



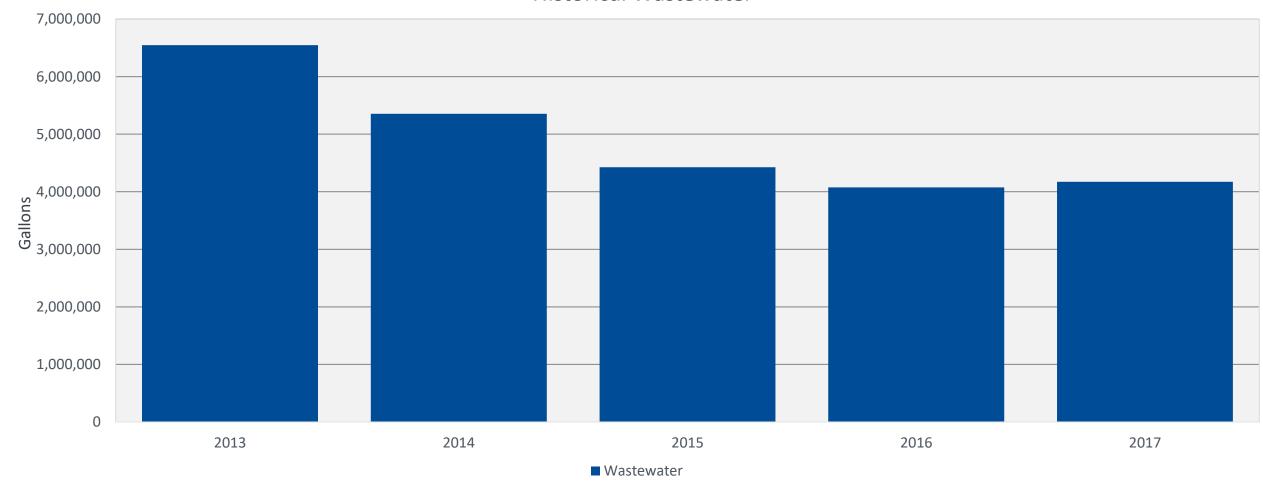
EMERSON COLLEGE	ACCOUNT NUMBER: 111635000					
543 WASHINGTON ST						
BOSTON, MA 02111-1718						
Bill Date	Consumption	Water Charges	Sewer Charges	Other	Payments	Reversed Payments
7/26/2017	24050	\$1,396.68	\$1,896.80	\$62.10	(\$2,043.30)	\$0.00
6/23/2017	14750	\$840.27	\$1,138.86	\$64.17	(\$2,332.31)	\$0.00
5/23/2017	16800	\$962.63	\$1,305.51	\$64.17	(\$9,343.81)	\$0.00
4/26/2017	25650	\$1,490.89	\$2,024.92	\$5,828.00	(\$1,742.53)	\$0.00
3/23/2017	12600	\$714.53	\$967.97	\$60.03	(\$2,473.29)	\$0.00
2/24/2017	17800	\$1,022.32	\$1,386.80	\$64.17	(\$890.56)	\$0.00
1/26/2017	6450	\$354.07	\$472.32	\$64.17	(\$2,374.78)	\$0.00
12/27/2016	16050	\$909.82	\$1,198.72	\$266.24	(\$2,976.53)	\$0.00
11/28/2016	21850	\$1,257.33	\$1,659.17	\$60.03	(\$12,236.76)	\$0.00
10/27/2016	34150	\$1,983.54	\$2,619.99	\$7,633.23	(\$3,601.84)	\$0.00
9/27/2016	26400	\$1,525.63	\$2,014.11	\$62.10	(\$4,699.78)	\$0.00
8/23/2016	47650	\$2,794.78	\$3,693.21	\$66.24	\$0.00	\$0.00
7/26/2016	35500	\$2,063,52	\$2 725 86	\$64.17	\$0.00	\$0.00
6/23/2016	FY16 Wastewater	Consumption	on: 4.07M Ga	allons	(\$21,771.00)	\$0.00
5/24/2016		•		\$0.00	\$0.00	



Historical Wastewater









FY17 Paper

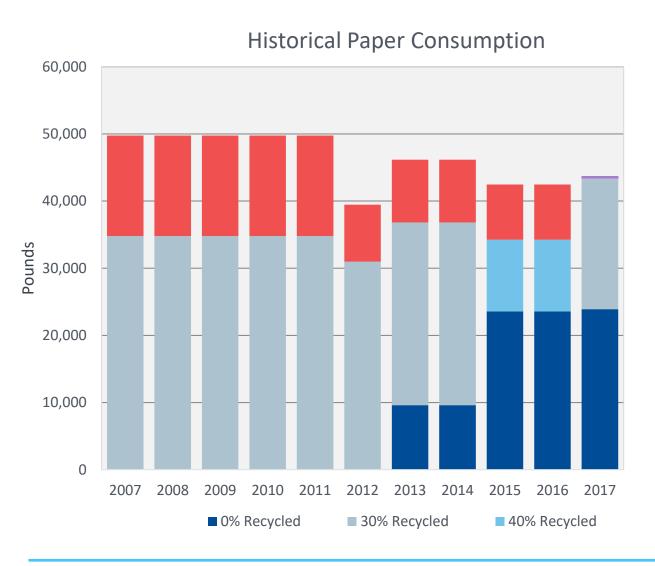


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C2409206 Emers C2409206	CT Paper 2 \$ 148.50 FSC Certified	
BX and PK counted as Cases RM Paper 1 5 17.85 FSC Certified C249206 Emers C249206	RM Paper 2 \$ 28.18 FSC Certified	
CZ499206 Emers CZ499206	CT Paper 1 \$ 61.09 FSC Certified	
C2499206 Emers C2499206	RM Paper 1 \$ 17.85 FSC Certified	
C2499206 Emers C2499206	CT Paper 7 \$ 194.60 No Sustainable Info	
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RM Paper 2 5 6.78 Acid-Free	RM Paper 2 \$ 10.38 Contains 30% post-consumer recycled content, 3	al recycled content. FSC Certified, Acid Free, Chlorine Free
RM Paper 5 \$ 16.95 Acid-Free.	RM Paper 6 \$ 20.34 Acid-Free.	
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	PK Paper 6 \$ 55.14 FSC Certified	
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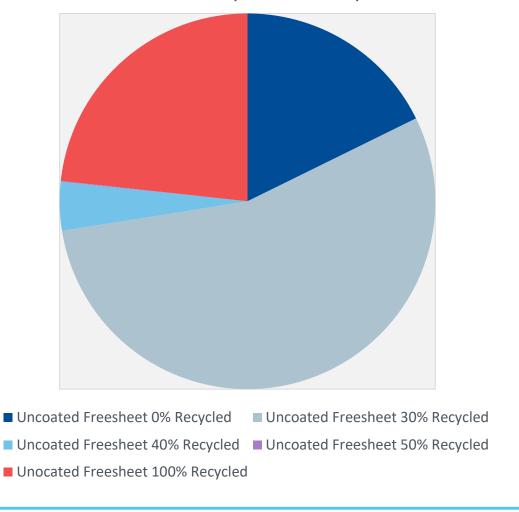


Paper Recycling Usage Breakout





Historical Paper Consumption

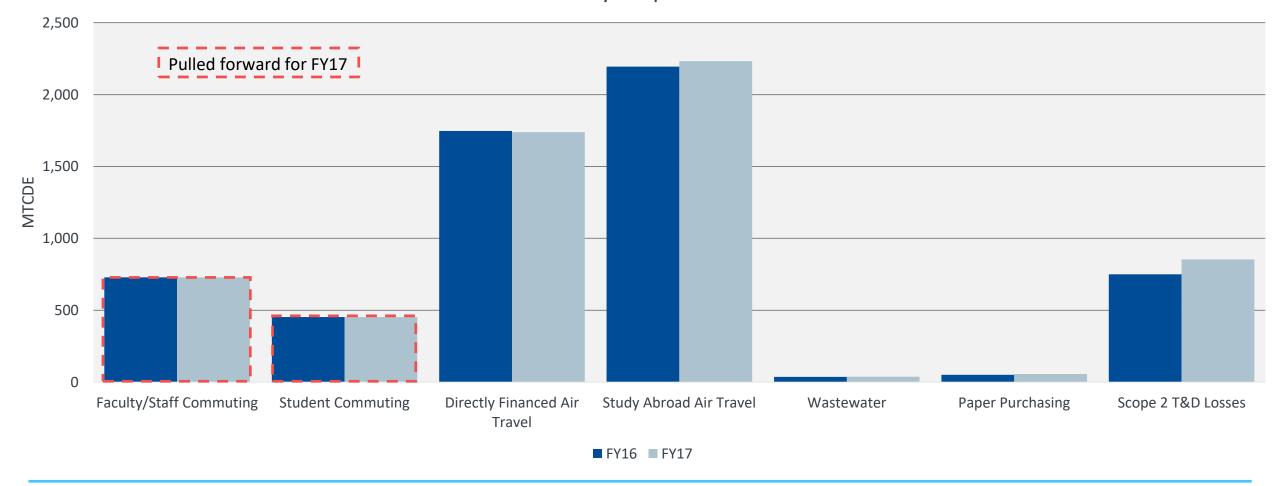




Scope 3 by Source



MTCDE by Scope 3 Source

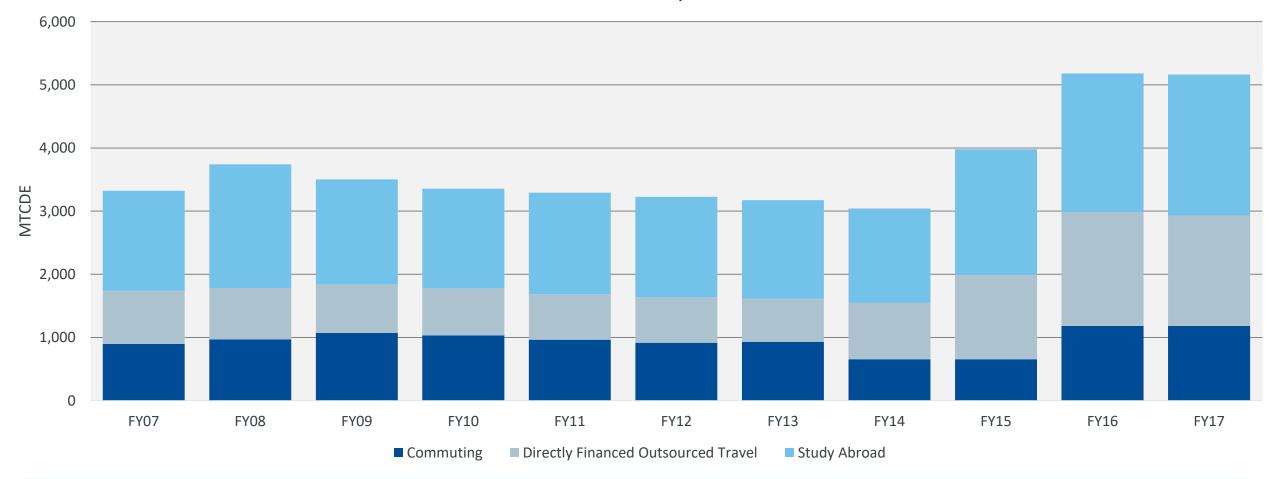








Total Emissions Breakout by Source in MTCDE





FY17 Offsets (RECs)



FY16 RECs

From: Jay Phillips [mailto:jay phillips@emerson.edu]

Sent: Wednesday, March 25, 2015 7:54 AM

To: Daniel Willman <dwillman@sightlinesllc.com>

Cc: Eric Van Vlandren < eric vanvlandren@emerson.edu >; Kristen Nicholas < kristen nicholas@emerson.edu >; Duncan Pollock < duncan pollock@emerson.edu >; Jay Phillips

<jay phillips@emerson.edu>
Subject: Renewable Certificates

Daniel,

We noticed that we were not purchasing 100% of our electricity consumption in renewable energy certificate offsets. Our annual aggregate kWh usage has been just a little over 21,000 mWh and we were buying 15,000 mWh/year. I negotiated an augmentation of REC purchase that brings our certificate purchases to 21,000 mWh/year for both FY14 and FY15. I will purchase 25,000 mWh for FY16, 17 and 18 in recognition of our growth in Boston.

Please adjust the GoGreen report to show 21,000 mWh of RECs purchased for FY14 and you can plug the same in for FY15 when we do that report.

I am attaching the revised certificate.

Thank you,

Jay

Jay M. Phillips | Associate Vice President for Facilities and Campus Services

Emerson College | 120 Boylston Street | Boston MA 02116-4624 | T: 617-824-8103









ımmary				
	Single Stream	Cardboard	Compost	MSW
Jul-16	2.78	4.26	1.08	17.69
August	3.79	3.91	0.06	38.3
September	10.24	8.01	2.81	62.41
October	10.39	5.38	3.33	61.81
November	9.83	5.45	5.05	54.3
December	9.04	3.53	4.79	58.79
January	6.53	4.18	2.73	39.31
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April	9.79	6.74	5.52	48.85
May	7.54	2.67	3.01	45.21
June	4.13	1.12	0.08	25.81
Total	94.35	53.75	37.75	562.93

FY16 Composting = 43 tons

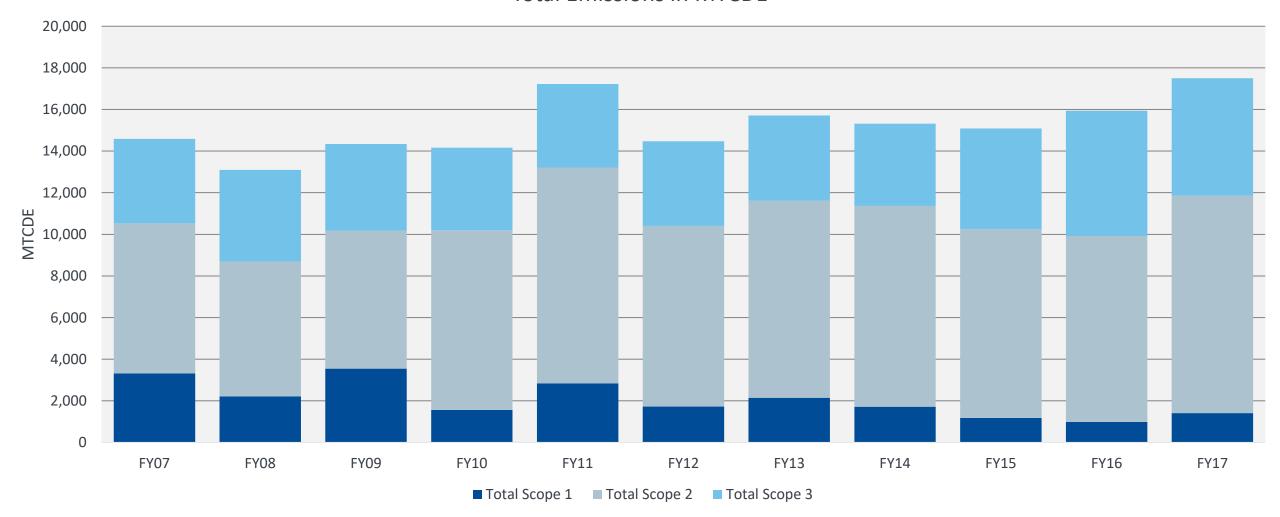
FY17 Composting = 38 tons



Total MTCDE (Scopes 1, 2, 3)



Total Emissions in MTCDE

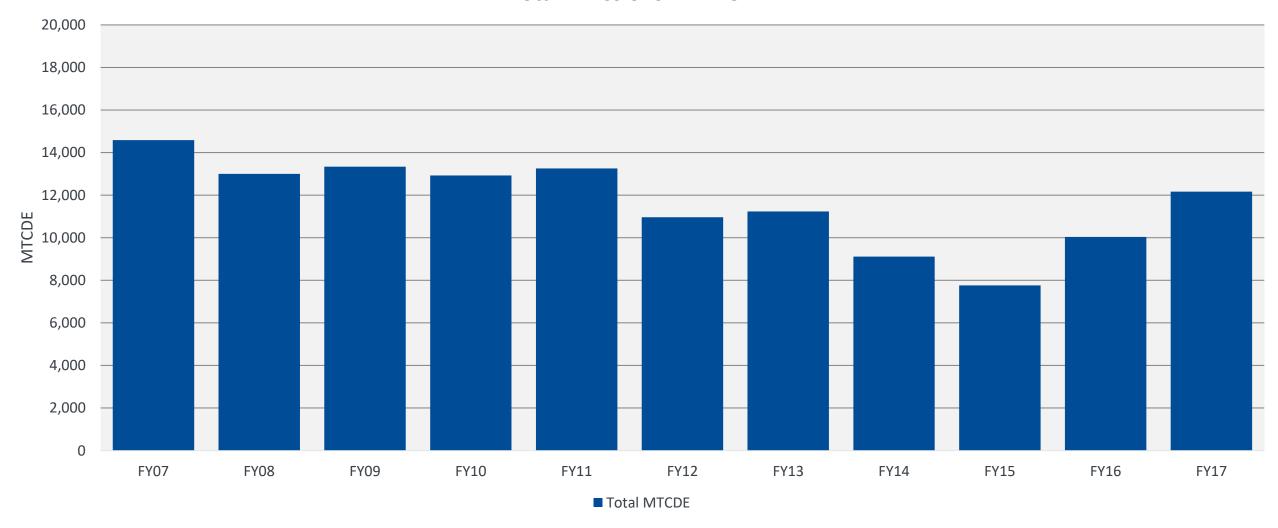








Total Emissions in MTCDE





Peer Institutions



Sustainability Analysis Space Totaling: 1.2M GSF

Regional Peer Group

Babson College

Fitchburg State University

Bentley University

Hamilton College

Siena College

Hampshire College

Westfield State University

Champlain College

Worcester State University

Urban Peer Group

American University

Gallaudet University

Loyola University Maryland

University of Denver

University of San Diego

Boston College

The Catholic University of America

George Mason University

Virginia Commonwealth University

Comparative Considerations

Size, technical complexity, region, geographic location, and setting are all factors included in the selection of peer institutions



Next Steps



FY17 ROPA+ Qualification

FY17 ROPA+ with Sustainability Solutions Final Presentation

FY17 ROPA+ Qualification

FY17 ROPA+ Final Presentation

