University of Washingtor versity of Wisconsin - Madison Vanderbilt University nonwealth University partment of General ake Forest University Vashburn University Vashington University in St. Louis Wellesley College Vesleyan University t Chester University West Virginia Ho West Virginia Institute of Technology West Virginia School of Osteopathic Medicine West Virginia State University West Virginia University Western Connecticut State University Western Oregon University Westfield State University Widener University Williams College Worcester Polytechnic Institute Worcester State University

> Xavier University Yale University



ROPA+

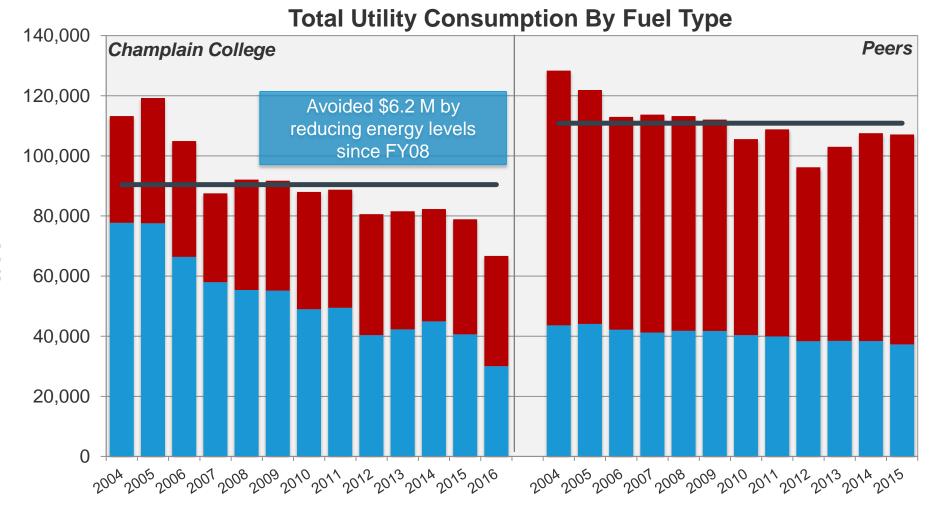
Champlain College

Presenters: Dan Willman and Josh Vidro November 2016

Energy Consumption vs. Peers

1878

Major strides made over the last 10 years



Sustainability Peers: Bentley University, University of Vermont, Boston College, Babson College, Siena College, Wesleyan University, Carleton College, Hamilton College, Hampshire College

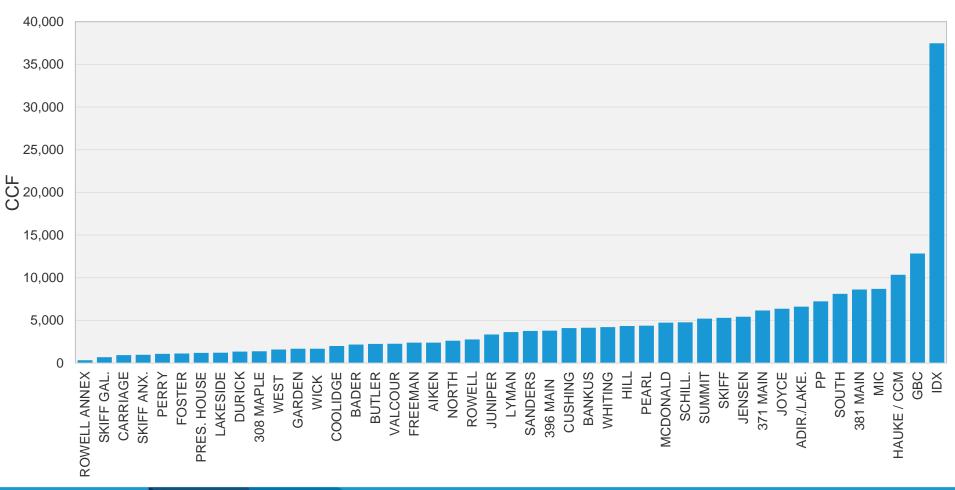


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Total Consumption

Natural Gas Consumption

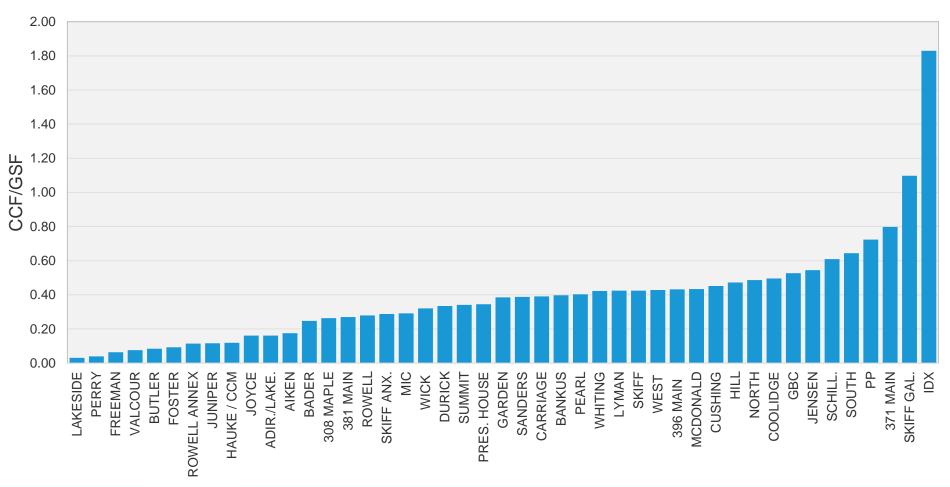




1878

Consumption per Gross Square Foot

Natural Gas Consumption

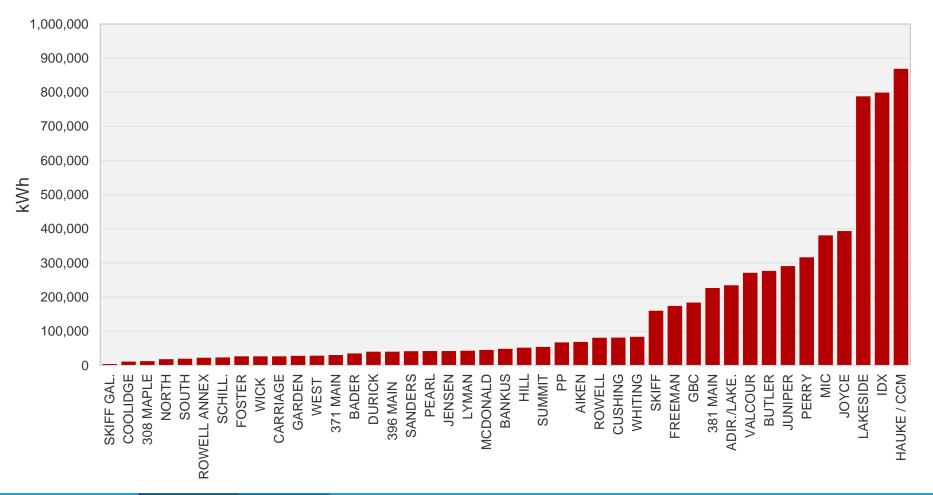






Total consumption

Electricity Consumption

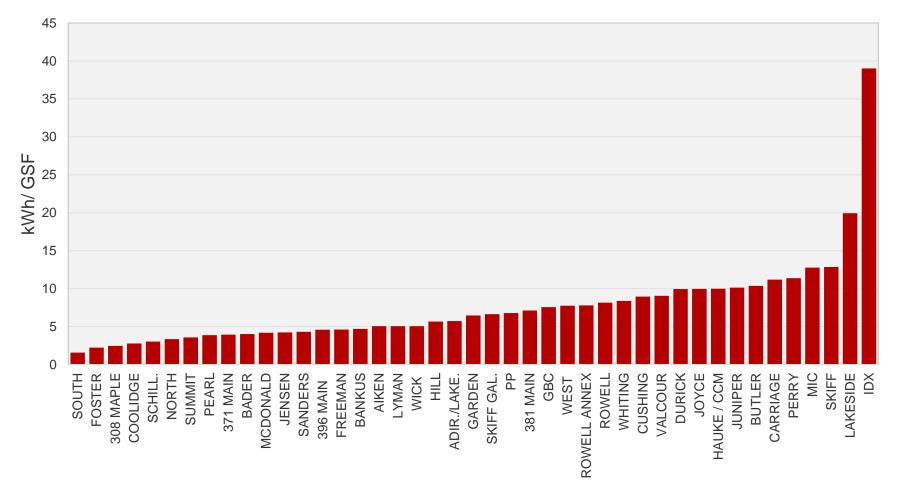






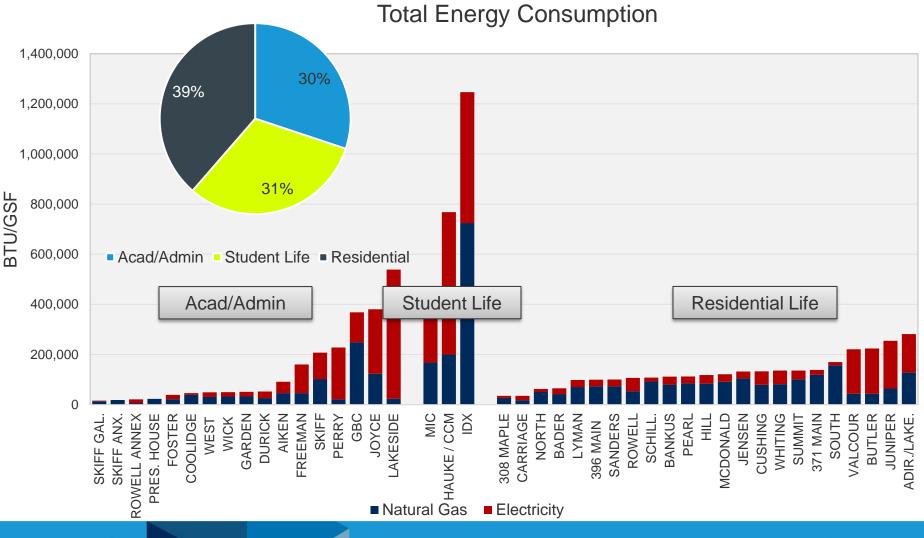
Consumption per Gross Square Foot







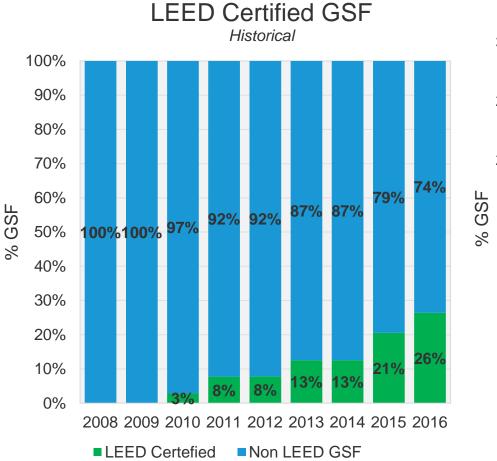


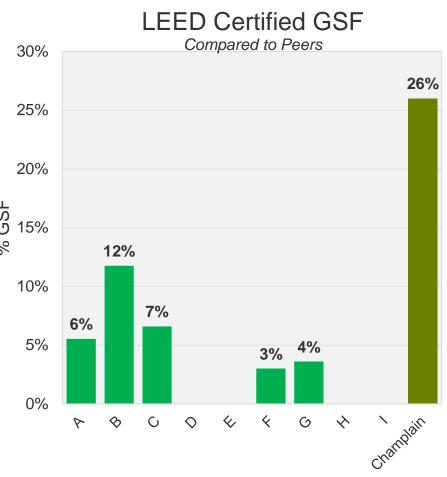


Sightlines

Establishing a sustainable campus



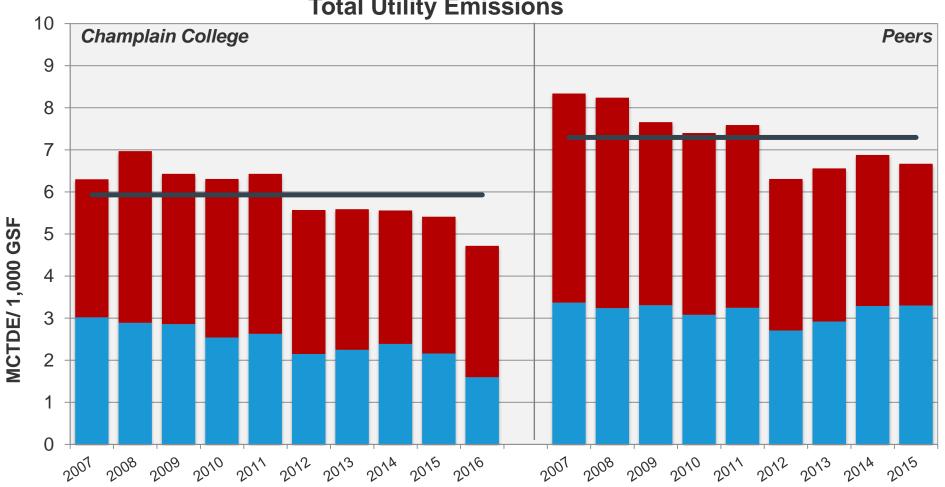




Sustainability Peers: Bentley University, University of Vermont, Boston College, Babson College, Siena College, Wesleyan University, Carleton College, Hamilton College, Hampshire College











Commuting comparisons

Student commuters updated in FY16

Updated by Sandy Thibault, 10/21/16 To: joshua vidro, Sightlines	Trip Distribution	FY16%	F
CATMA	Student % Carbon Free	32%	
CATMA STUDENT Transportation Survey Data (effective 2010, surveys conducted biennially) Specific to Champlain College "Commuter" students (combined w/in & outside 1/2 mi of campus)	Student % Drive Alone	35%	
"In a typical week how do you travel to main campus" (check all that apply) 2016 2014 TYPE OF STUDENT / Champlain Response 2016 2014	Student % Carpool	6%	
Drive Alone 53.3% 55.9% Commuter<.5 mile 2.5% 2.5% 65 76 Commuter>.5 mile 3.0% 3.5% Bus 18.0% 9.6% 15.0% 9.0%	Student % Bus	27%	
22 13 Overall Response 20.5% 15.0%		•	_
Shuttle 25.4% 21.3% 31 29	Trip Distance	FY16 Miles	1
Carpool 15.6% 14.7% 19 20	Carbon Free	4	
Bike 13.9% 12.5% 17 17	Drive Alone	10	
Walk 51.6% 56.6% 63 77 Other** 1.6% 1.5%	Carpool	1	
Other** 1.6% 1.5% 2 2		-	\vdash
**Other includes Uber; park in Winooski take college shuttle from Spinner Place to Campus	Bus	12	

*Bus includes commuters who use the shuttle

*Assuming 53% of students are residential



FY14%

50%

37%

6%

6%

FY14 Miles

2

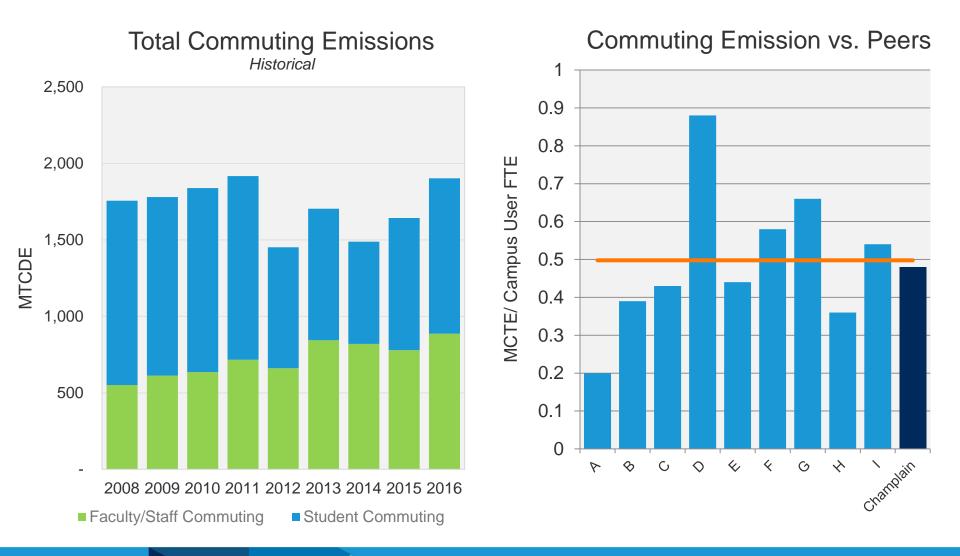
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9

14

Commuting Comparison





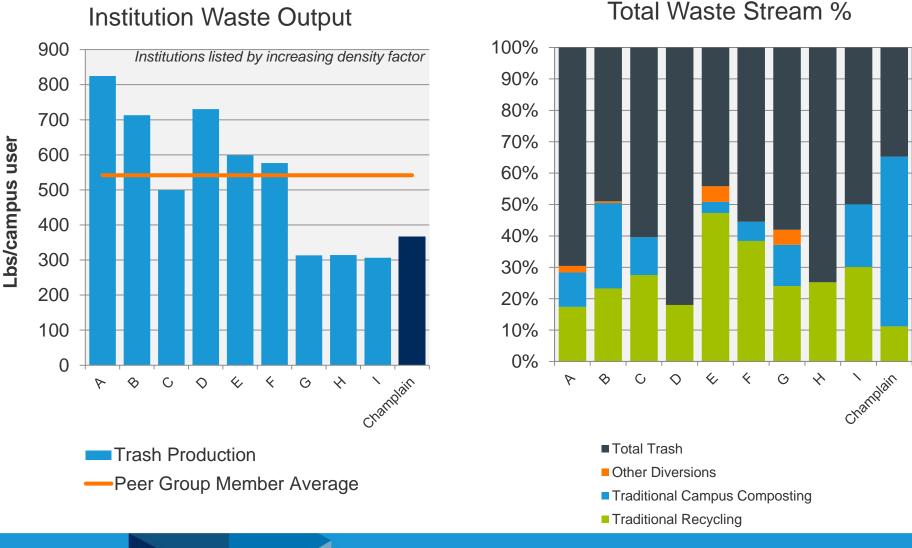
Sustainability Peers: Bentley University, University of Vermont, Boston College, Babson College, Siena College, Wesleyan University, Carleton College, Hamilton College, Hampshire College



Progress Toward Goals – Waste Management



Efforts to decrease waste have brought Champlain below peer average



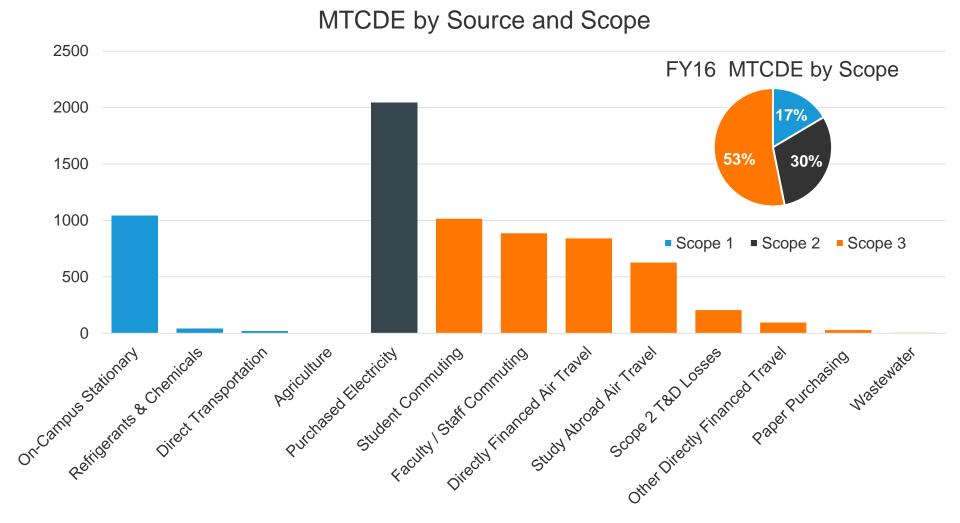
Sustainability Peers: Bentley University, University of Vermont, Boston, College, Babson College, Siena College, Wesleyan University, Carleton College, Hamilton College, Hampshire College



Total Emissions by Source



Solid Waste -7 MTCDE; Composting -116 MTCDE

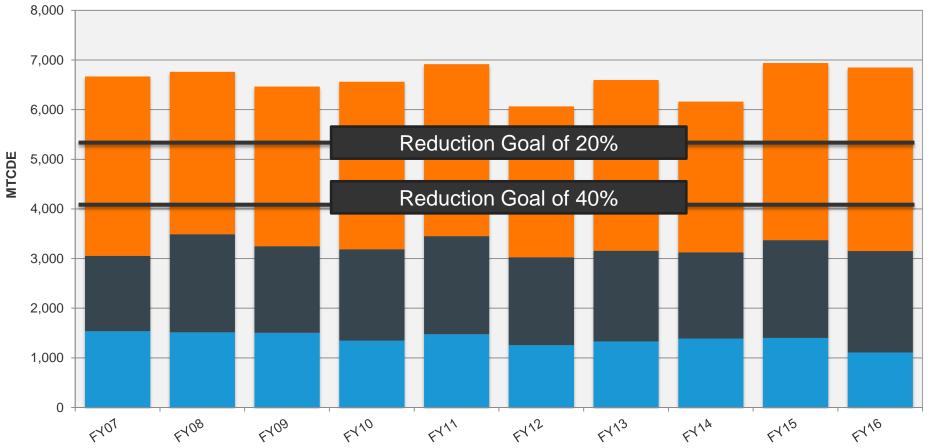




Net Emissions Relative to National Goals



With current profile, reduction goals are attainable



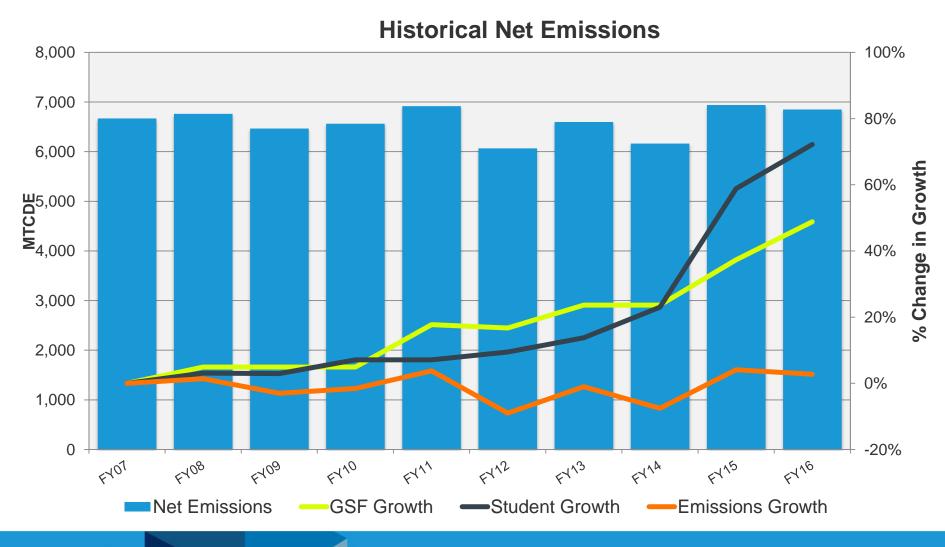
Historical Net Emissions



Net Emissions Relative to Campus Growth



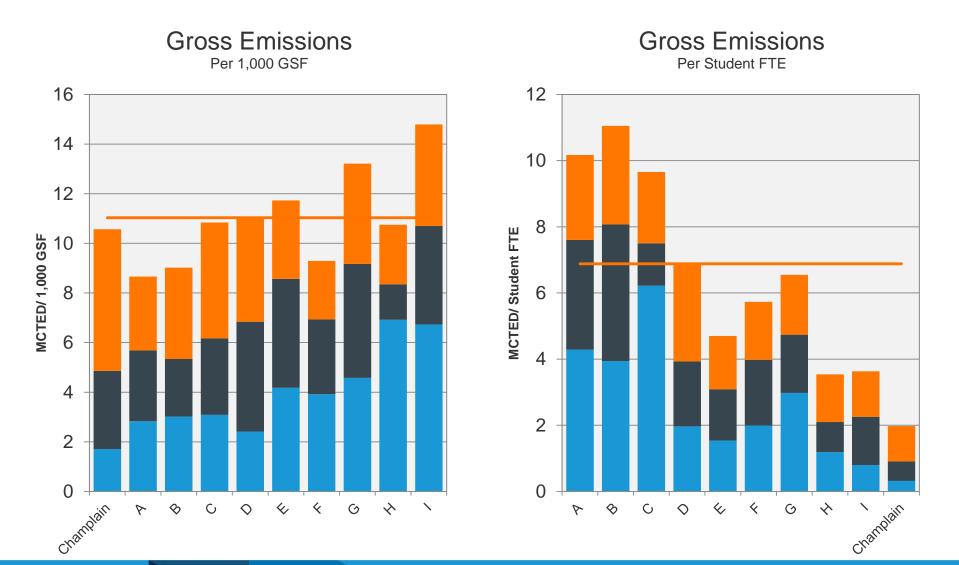
Growth in campus since FY07





Overall Emissions vs. Peers





Sustainability Peers: Bentley University, University of Vermont, Boston College, Babson College, Siena College, Wesleyan University, Carleton College, Hamilton College, Hampshire College



Carbon Profile and Mitigation Hierarchy



Hierarchy prioritizes areas of focus – firstly on campus consumption

