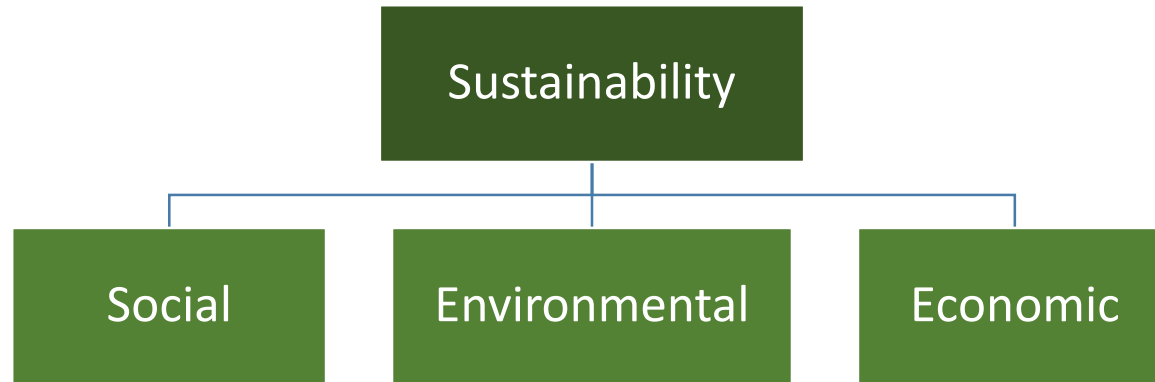


# UF Sustainability and Carbon Neutrality

**Matthew I. Williams**  
**Director, UF Office of Sustainability**  
**21 February 2019**

# Defining Sustainability

Meeting current needs without compromising the ability of future generations to satisfy their needs.



# Historic Background

- 2006
  - Joint Sustainability Committee
  - Office of Sustainability
  - Presidents' Climate Commitment



# 14 Focal Areas for Sustainability at UF

- Academics & Research
- Agriculture & Dining Services
- Built Environment
- Cultural Climate
- Energy Conservation & Climate Change
- Equity
- Health
- Investment
- Land & Resource Management
- Procurement
- Service, Outreach & Extension
- Stewardship
- Transportation
- Waste Reduction

# Current Progress



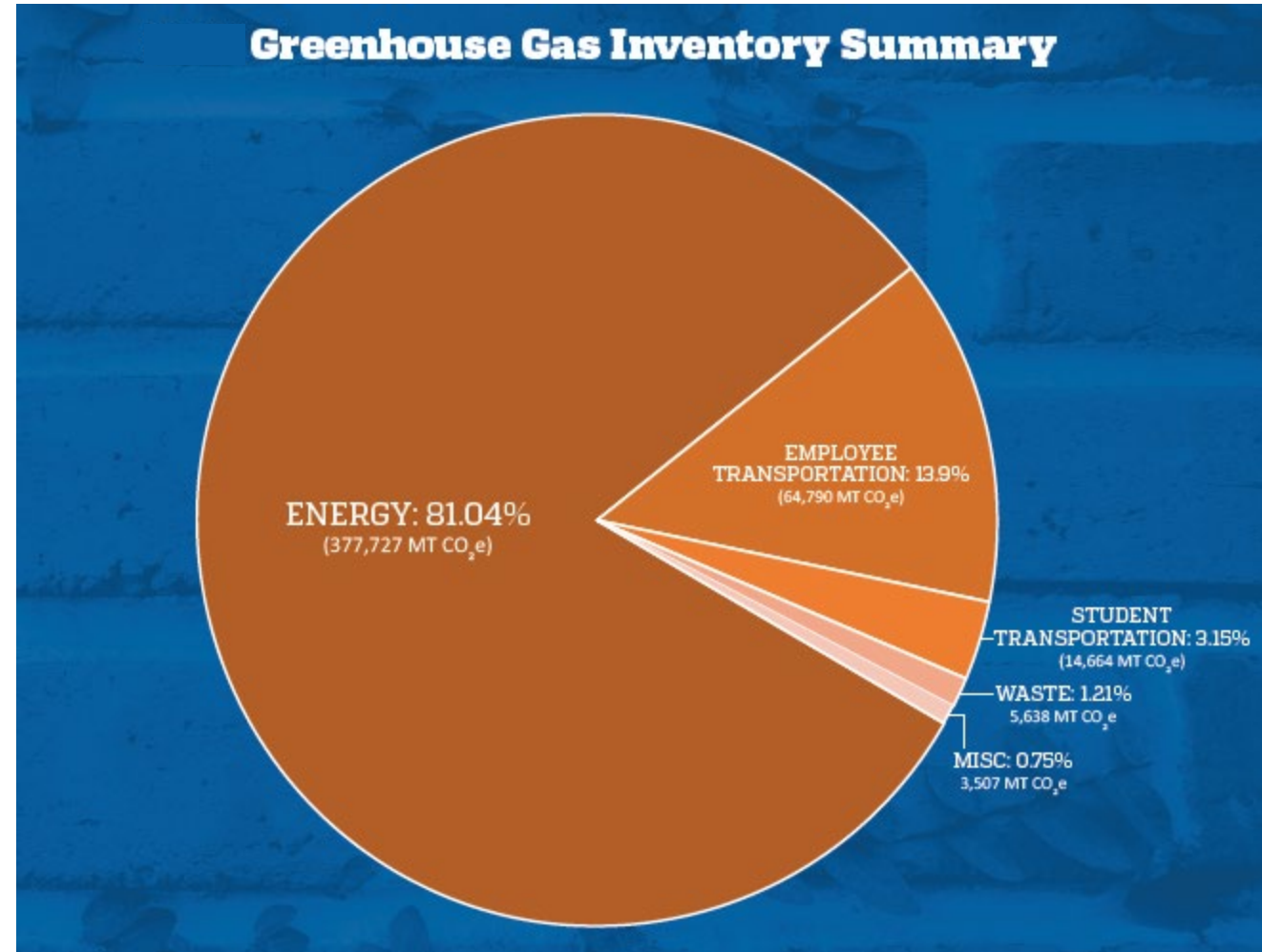
# Green Buildings

- 78 LEED-certified building projects
- 1<sup>st</sup> - public universities
- 1<sup>st</sup> Gold LEED and Platinum LEED buildings in the state



# Campus Emissions

- Energy - 81%
- Employee Transportation - 14%
- Student Transportation - 3%
- Waste - 1%
- Misc - 1%

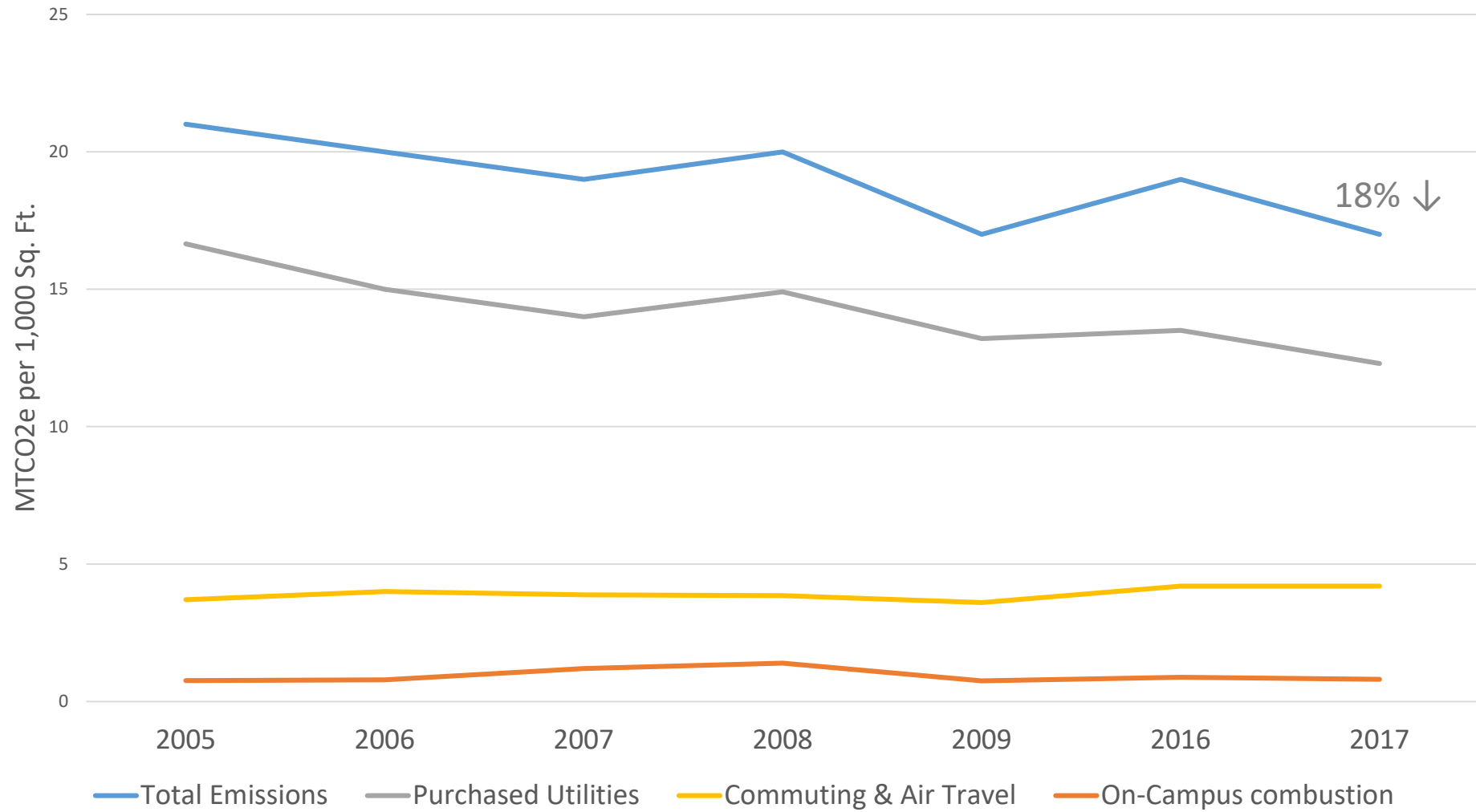


# Climate Action 1.0

- 3% reduction 2005 - 2012
- 17% reduction 2005 - 2020
- 100kw on-site renewable energy
- Neutrality 2025

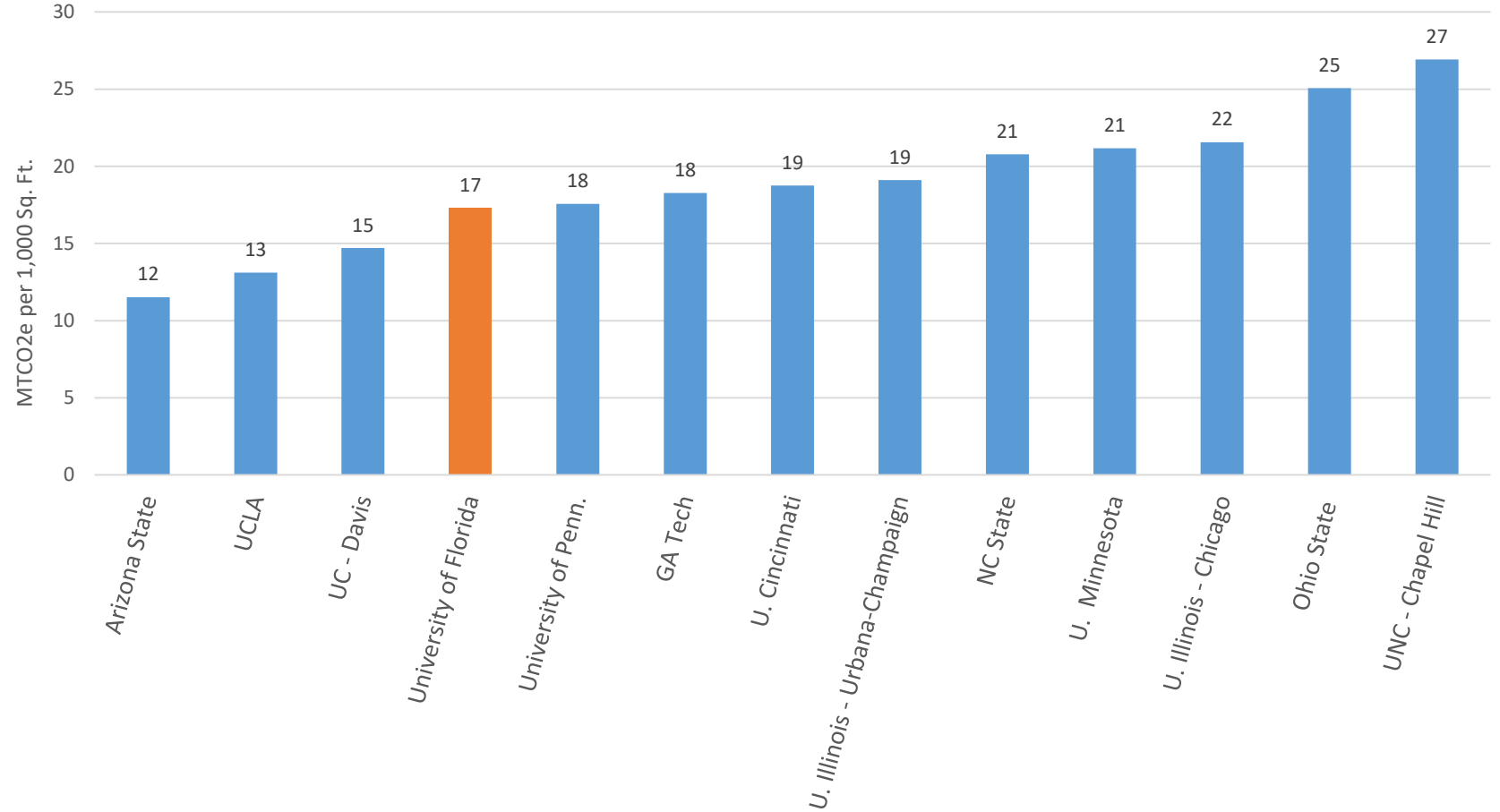


# UF Emissions per 1,000 square feet



# Campus Emissions - National

Total Emissions Per 1,000 Square Feet



- Highest 13 campus GHG emitters

# Energy

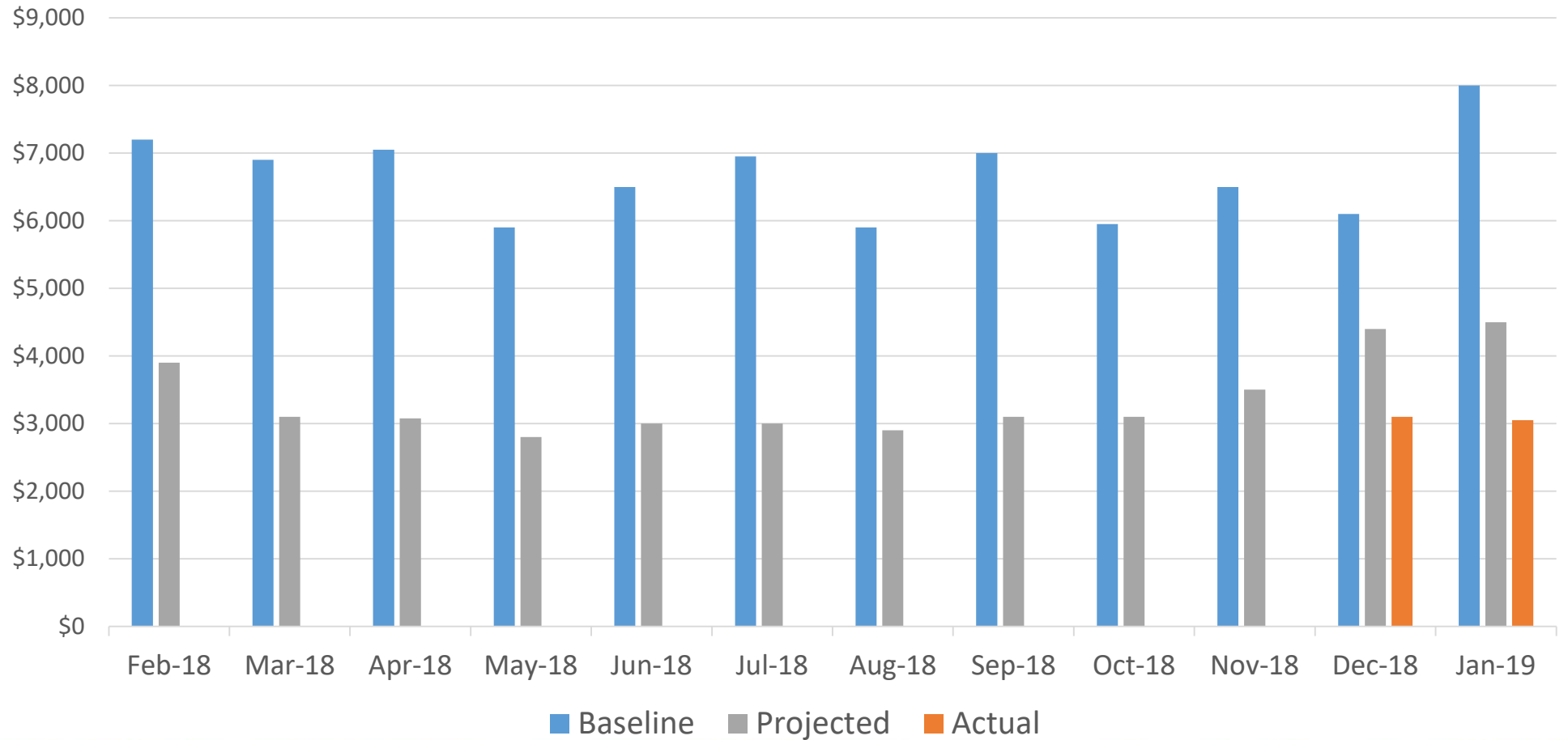
- ~\$40 million each year
- 80% of UF's carbon footprint
- 8% Reduction in energy intensity (2008-2018)

*= to 915 avg. households in FL*



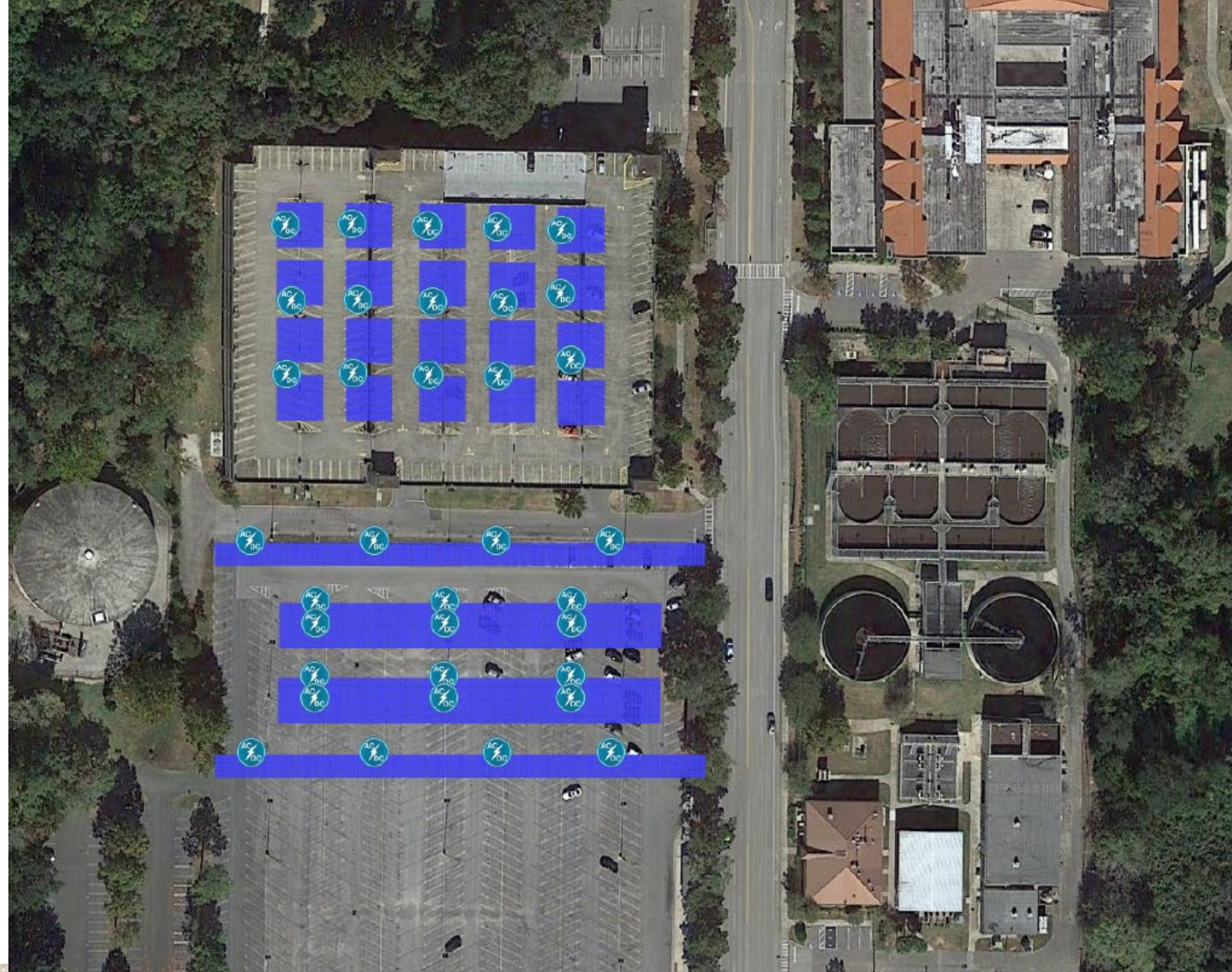
# Efficiency Retrofits

UF Healthstreet Building - Monthly Utility Costs



# Garage Solar

- “Solar Ready”
- 1.3 MW design
- Evaluating financing



# Climate Action 2.0

- Built Environment
- Energy
- Transportation
- Finance, Mitigation, Offsets
- Climate Resilience

# Direct Engagement

- Office and Workspace Certification
- Event Certification
- Curriculum Integration
- Experiential Learning
- Electric Vehicle Charging
- Electric Fleet Vehicles
- Carbon Neutral Commuters
- Departmental Bike Share
- Bike Commuter support

[sustainable.ufl.edu](https://sustainable.ufl.edu)  
[miwilliams@ufl.edu](mailto:miwilliams@ufl.edu)  
392-7578

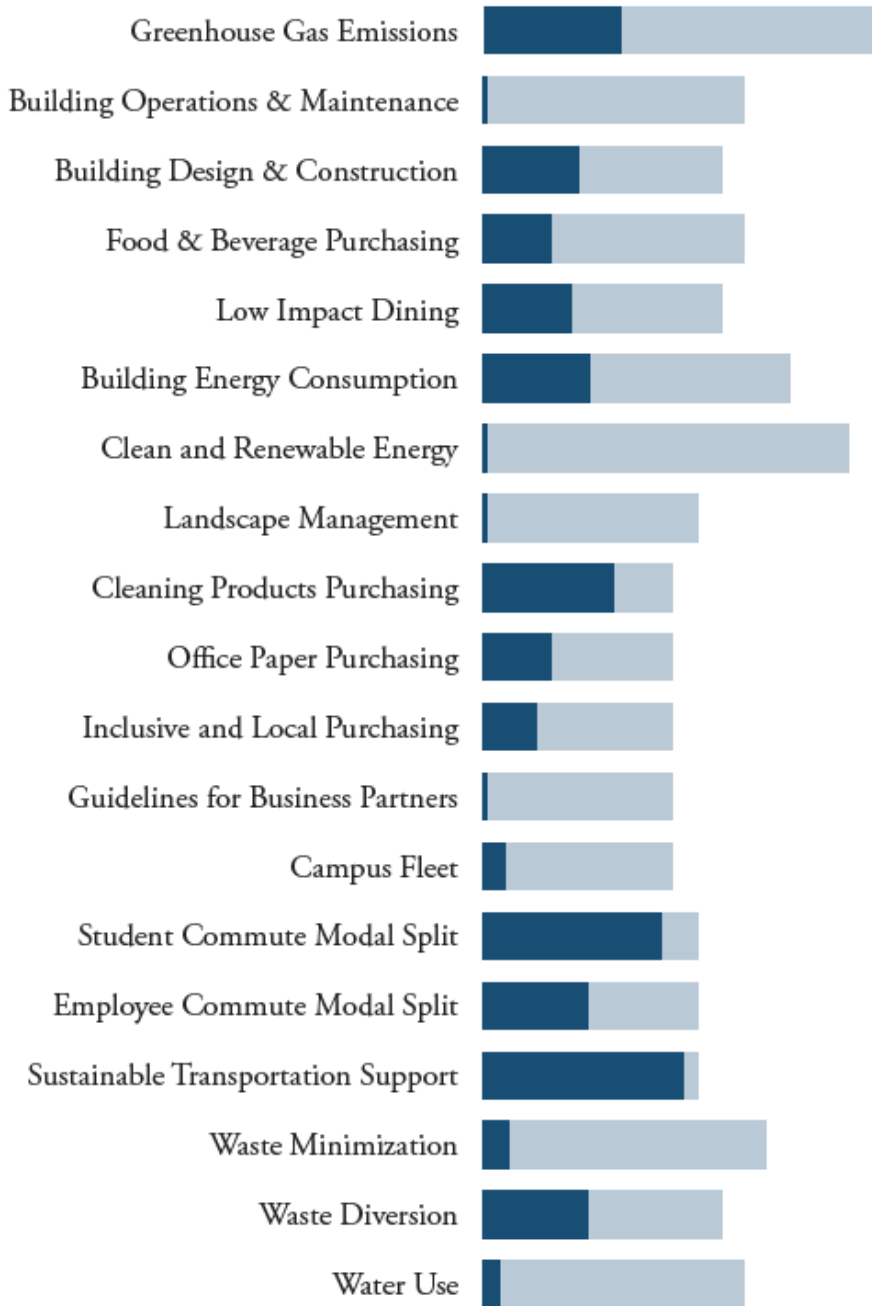


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## Operations



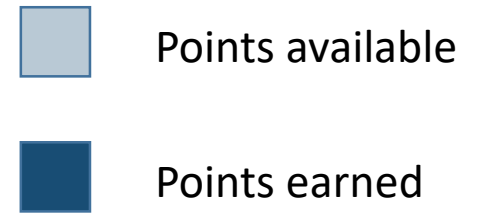
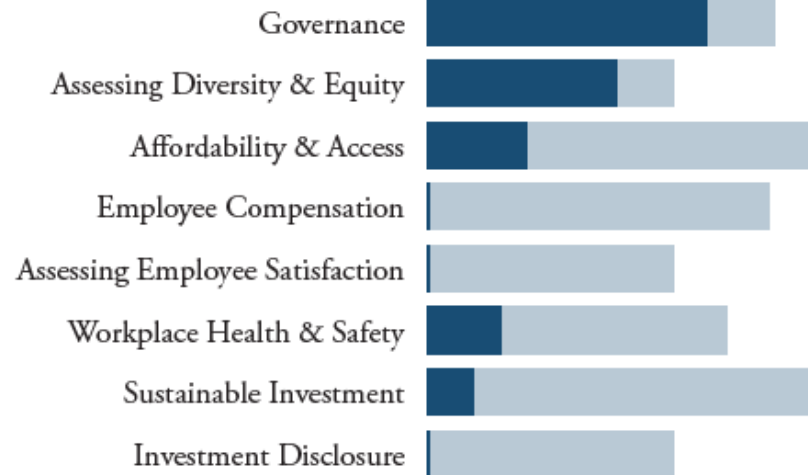
## Academics



## Engagement



## Planning & Administration



# Campus Emissions

	Emissions Source	MT CO <sub>2</sub> e*	%		Emissions Source	MT CO <sub>2</sub> e*	%
Energy	Electricity	294,967	63.28%	Waste	Wastewater	2,886	0.62%
	Steam	72,044	15.46%		Solid Waste	2,752	0.59%
	Natural Gas	10,716	2.30%		Misc.	Refrigerants	2,301
Employee Transportation	Air Travel (UF Business)	28,389	6.09%	Paper Purchases		1,205	0.26%
	Personal Commute (Car)	28,375	6.09%	Livestock		1	0.00%
	Campus Fleet Fueling	6,411	1.38%	Offsets	(200)	-0.04%	
	Car Travel (UF Business)	1,602	0.34%	<b>TOTAL</b>	<b>466,126</b>	<b>100%</b>	
	Personal Commute (Bus)	13	0.00%				
Student Transportation	Air Travel (Study Abroad)	10,816	2.32%				
	Personal Commute (Car)	3,210	0.69%				
	Personal Commute (Bus)	638	0.14%				

# Campus Emissions - Florida

Florida Universities - Total Emissions Per 1,000 Square Feet

