

December 2019

Climate Action Template

In order to build a strong document based on the collective expertise of our university, we are soliciting carbon mitigation strategies for consideration/inclusion in the next iteration of Appalachian State University's Climate Action Plan. The suggested strategies should lead to a measurable reduction in Appalachian State University's carbon footprint. Out-of-the-box thinking and creativity are encouraged.

Table 1
Appalachian's carbon emissions for FY 2019

Carbon Impact	Source	Captured Data	MT eCO2	%	% sub total
<i>High</i>	Purchased Electricity	kWh purchased	28,685.1	43.5%	68.5%
	Steam and Backup Generators	mmbtus of Natural Gas purchased	16,450.2	25.0%	
<i>Medium</i>	Student Commuting	miles/mode/frequency from survey	4,037.1	6.1%	28.8%
	Faculty/Staff Commuting	miles/mode/frequency from survey	5,108.5	7.8%	
	Directly Financed Air Travel	miles flown	4,373.3	6.6%	
	Directly Financed Ground Travel	miles reported	1,407.5	2.1%	
	Study Abroad	miles flown	2,543.7	3.9%	
	Scope 2 T&D Losses	calculation based on ppurchased kWh	1,500.2	2.3%	
<i>Low</i>	Refrigerants/Chemicals	pounds reported	696.2	1.1%	2.7%
	Solid Waste	tonnage reported	604.2	0.9%	
	Fleet Vehicles	fuel purchased	264.8	0.4%	
	Paper	pounds purchased	164.0	0.2%	
	Wastewater	gallons reported	37.3	0.1%	
	Agriculture	pounds applied	16.8	0.0%	
total			65,889	100%	

Working Group Name:		
Date:		
Working Group Members:	1.	2.
	3.	4.
	5.	6.
	7.	8.
	9.	10.

Proposed Carbon Mitigation Strategy

Primary targeted emission Secondary affected emission	
Description of suggested opportunity	
Timeframe	
Projected carbon reduction (in MT eCO ₂) Unit of measure (i.e. kWh, fuel, miles, etc.)	
Estimated cost Capital expense O & M	
Cost avoidance/savings	
Potential partners (academic departments, student groups or organizations, local entities)	
Academic opportunities	
Oversight signed to:	