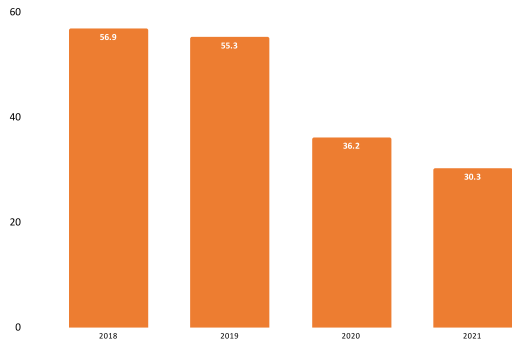
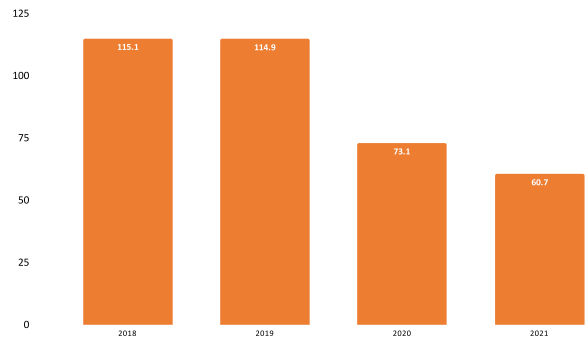


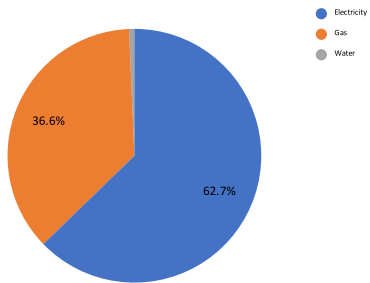
UFFR Carbon Footprint, Metric Tons of CO2  
Duke Carolinas Average for GHG Emission/kWh



UFFR Carbon Footprint, Metric Tons of CO2  
EPA National Average for GHG Emission/kWh



Relative Contribution to UFFR Carbon Footprint  
2021, Duke Carolinas Data



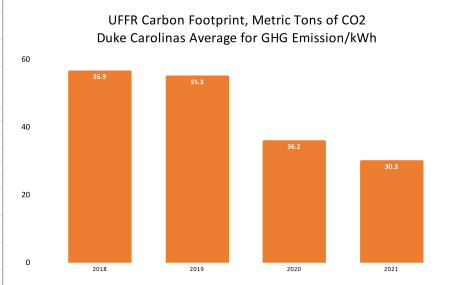
UFR Carbon Footprint

	2018		2019		2020		2021		2022	
	EPA - National Data**	Duke Carolinas Data**	EPA - National Data**	Duke Carolinas Data**	EPA - National Data**	Duke Carolinas Data**	EPA - National Data**	Duke Carolinas Data**	EPA - National Data**	Duke Carolinas Data**
<b>Fellowship Hall</b>										
Electricity, kWh	93,160	145,516	55,896	89,440	139,705	53,664	60,440	94,407	36,264	52,540
Natural Gas, Therms	1,526	17,854		1,322	15,467		1,053	12,320		475
Water, Gallons	64,328	798		73,304	909		16,456	204		20,196
<b>Peace Hall</b>										
Electricity, kWh	41,640	65,042	24,984	48,300	75,445	28,980	24,264	37,900	14,558	17,339
Natural Gas, Therms	2,092	24,476		1,865	21,821		1,395	16,322		1,614
Water, Gallons	115,192	1,428		83,028	1,030		11,968	148		16,456
Total Electricity, kWh	134,800	210,558	80,880	137,740	215,150	82,644	84,704	132,308	50,822	69,879
Total Natural Gas, Therms	3,618	42,331		3,187	37,288		2,448	28,642		2,089
Total Water, Gallons	179,520	2,226								24,441
Total CO2 Equivalents, lbs - EPA		253,686	125,437		253,347	121,870		161,153	79,816	133,843
Total CO2 Equivalents, Metric Tons - EPA		115.07	56.90		114.92	55.28		73.10	36.20	60.71
% of Carbon Footprint										
Electricity	83.0%	64.5%	85%	85%	67.8%	82%	82%	63.7%	82%	62.7%
Gas	16.7%	33.7%	15%	15%	30.6%	18%	18%	35.9%	18%	36.6%
Water	0.9%	1.8%		0.8%	1.6%		0.2%	0.4%		0.7%

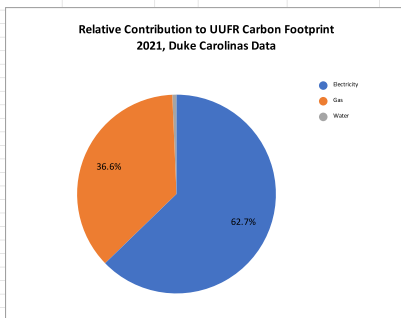
Notes  
 \*CO2 Equivalents for Electricity are being calculated at 1.562 lb/kWh in accordance with the Green Sanctuary Calculators Guidance from EPA National data  
<https://docs.google.com/document/d/1WPMlwxBU88ovSQRTOEzLFATU48rhp/edit>  
<https://www.epa.gov/energy/greenhouse-gases-equivalencies-calculator-calculations-and-references>

\*\*Duke Carolinas stated a combined fleet emission of 600 lb of CO2 per MWh in their Duke Carolinas Carbon Plan Stakeholders meeting, January 25, 2022

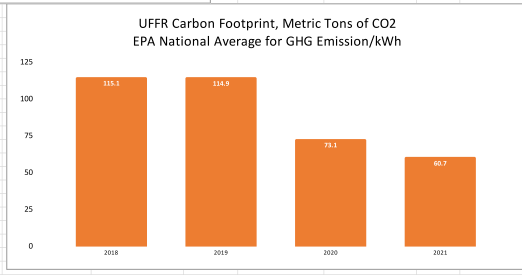
Year	Metric Tons of CO2
2018	56.9
2019	55.3
2020	36.2
2021	30.3



2018 vs 2021 47%  
 2018 vs 2020 36%



Year	Metric Tons of CO2
2018	115.1
2019	114.9
2020	73.1
2021	60.7





Fellowship Hall Natural Gas Consumption, Therms	2018	2019	2020	2021	2022
	Gas Consumed	Gas Consumed	Gas Consumed	Gas Consumed	Gas Consumed
January	557	454	259	149	260
February	197	349	237	132	
March	184	266	131	67	
April	33	47	56	2	
May	1	0	23	0	
June	0	0	0	0	
July	0	0	0	0	
August	0	0	0	0	
September	0	0	4	0	
October	27	1	5	0	
November	100	95	142	65	
December	427	110	196	60	
Total	1,526	1,322	1,053	475	260
CO2 Produced, pounds	17,854	15,467	12,320	5,558	3,042
CO2 Produced, metric tons	8.10	7.02	5.59	2.52	1.38



Note: Use Carbon Footprint Calculator since it adjusts for energy generation mix in our area						
<a href="https://www.carbonfootprint.com/calculator.aspx">https://www.carbonfootprint.com/calculator.aspx</a>						
Peace Hall Electrical Consumption, kWh	2018	2019	2020	2021	2022	
	Net Electricity Consumed	Net Electricity	Net Electricit	Net Electricit	Net Electricit	
<i>Italics indicates an estimate</i>						
January	1560	2100	1800	1628	1616	
February	1200	1800	1440	1020		
March	1680	1680	1980	780		
April	1320	2880	1560	360		
May	4620	6420	2400	300		
June	5880	5700	3240	1200		
July	6600	7860	5160	2940		
August	6720	7200	2280	3780		
September	5460	5280	660	2160		
October	3300	3300	1028	668		
November	1920	2220	1148	1254		
December	1380	1860	1568	1249		
Total	41,640	48,300	24,264	17,339	1,616	
CO2 Produced, metric tons	66624	77280	38822.4	27742.4	2585.6	
Average kWh per day	114.1	132.3	66.5	47.5	4.4	

Peace Hall Natural Gas Consumption, Therms	2018	2019	2020	2021	2022
	Gas Consumed	Gas Consumed	Gas Consumed	Gas Consumed	Gas Consumed
January	615	410	319	309	429
February	238	342	261	228	
March	286	268	160	285	
April	101	100	82	76	
May	27	34	53	37	
June	18	28	25	27	
July	20	30	23	22	
August	19	27	22	25	
September	21	31	25	23	
October	78	34	23	27	
November	263	218	118	266	
December	406	343	284	289	
Total	2,092	1,865	1,395	1,614	429
CO2 Produced, pounds	24,476	21,821	16,322	18,884	5,019
CO2 Produced, metric tons	11.10	9.90	7.40	8.57	2.28





UUFR Utility Bills											
UUFR Electricity Bills											
FH - 3309 Wade Ave	2018		2019		2020		2021		2022		
PH - 3313 Wade Ave	Fellowship Hall	Peace Hall	Fellowship Hall	Peace Hall	Fellowship Hall	Peace Hall	Fellowship Hall	Peace Hall	Fellowship Hall	Peace Hall	Peace Hall
January			\$1,177		\$0		\$1,065		\$2,887		
February			\$979		\$1,052		\$945				
March			\$886		\$750		\$503				
April			\$898		\$638		\$340				
May			\$1,213		\$662						
June	\$1,183		\$1,184		\$856		\$643				
July	\$1,186		\$1,379		\$1,082		\$872				
August	\$1,179		\$1,083		\$883		\$744				
September	\$1,005		\$1,135		\$738		\$637				
October	\$1,091		\$935		\$724		\$487				
November	\$2,328		\$1,348		\$793		\$1,644				
December	\$57		\$1,180			\$1,004	\$1,263				
Total	\$8,030	\$0	\$13,398	\$0	\$8,177	\$1,004	\$9,142	\$0	\$2,887	\$0	