

## Carbon Intensity From Shell

CO2 From Solar versus the Grid			Greenhouse Gas Intensity for Electricity		Shell Energy Retail Power Mix	
0.328	kWh/day		Source	Intensity (gCO2e/kWh)	Source	0%
119.72	kWh/year		Biomass	18	Biomass & Waste	0.017
			Geothermal	45	Geothermal	0.027
CO2 From Our Solar Charging Station			Solar	46	Small hydro	0
<b>5507.12</b>	gCO2e/year		Wind	12	Solar	0.006
			Coal	1001	Wind	0.23
CO2 From Shell Power Mix			Hydro	4	Coal	0
Source	kWh/yr	gCO2e/yr	Nat gas	469	Large hydro	0.08
Biomass	2.04	36.63	Nuclear	16	Natural gas	0.32
Geothermal	3.23	145.46	Other	365.44	Nuclear	0.04
Small Hydro	0.00	0.00	Source:		OTHER?	0.28
Solar	0.72	33.04	Silas Biggins - HSU Energy Manager		Total	1
Wind	27.54	330.43	Assumptions: Students/faculty would be charging their laptops/tablets/cell phones elsewhere on campus if not at CCAT, using Shell Power. CCAT solar has the same CO2 intensity as Shell's solar power.			
Coal	0.00	0.00				
Large Hydro	9.58	38.31				
Natural Gas	38.31	17967.58				
Nuclear	4.79	76.62				
Other	33.52	12250.13				
Total	119.72	<b>30878.21</b>				
CO2e Savings per Year:	<b>25371.09</b>	gCO2e/yr				
Project Life Years:	<b>5</b>	yrs				
CO2e Savings per Project Lifetime	<b>126.86</b>	kgCO2e				
			Source: <a href="http://shell.com/us/energy">shell.com/us/energy</a>			