Climate Fees for Travel

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LAND RECOGNITION STATEMENT:

We acknowledge that the University of
Wisconsin-Eau Claire occupies the sacred and
ancestral lands of Indigenous Peoples on our Eau
Claire, Rice Lake and Marshfield campuses. We
honor the land of the Menominee, Ho-Chunk,
Potawatomi, Ojibwe and Dakota Nations.











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Sustainability at UW

At UW-Eau Claire our campus is a living • Faculty/staff education opportunity to explore sustainable construction, graduate with valued credentials, and create new campus sustainability projects through the green fund - without any out of pocket fees.

Waste

These opportunities are a result of our dedication to transitioning our buildings, operations, and academics to a more sustainable model. Our goals include:

- Reaching campus carbon neutrality [7] by 2050
- Preparing students for civic leadership by:



Air Travel Carbon Footprint

Working with Native students, faculty, staff on TEK implementation

Student education for climate

change/Academics

Student internships

Campus Energy Use

Renewable Energy



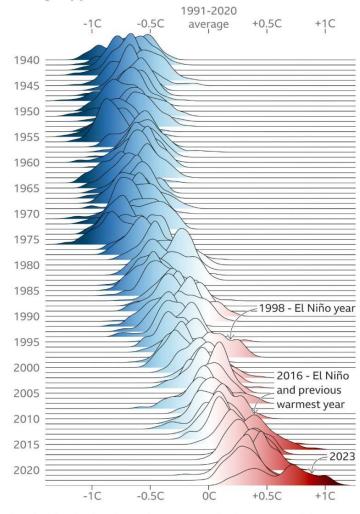
Sustainability

Sustainability in Academics

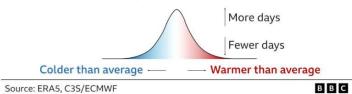
Student Sustainability Involvement

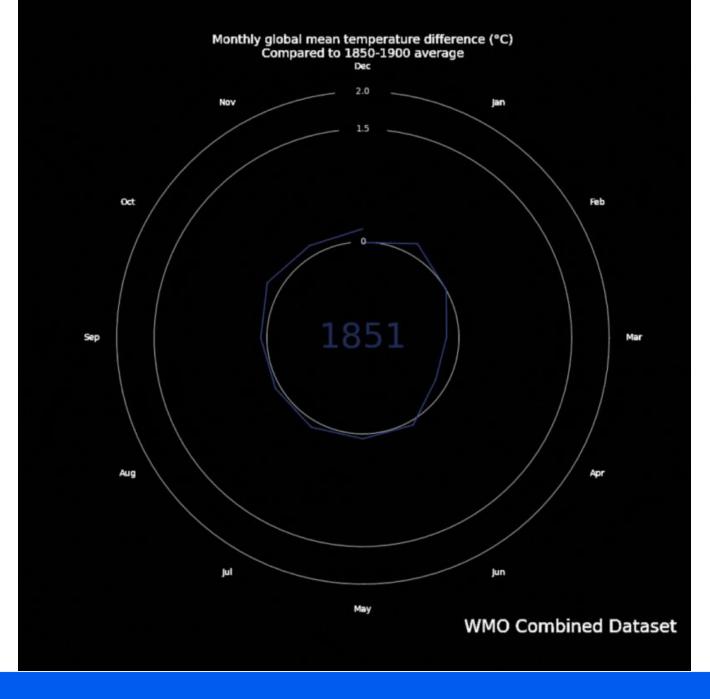
Campus Sustainability Initiatives

Daily global air temperature compared with the 1991-2020 average, by year

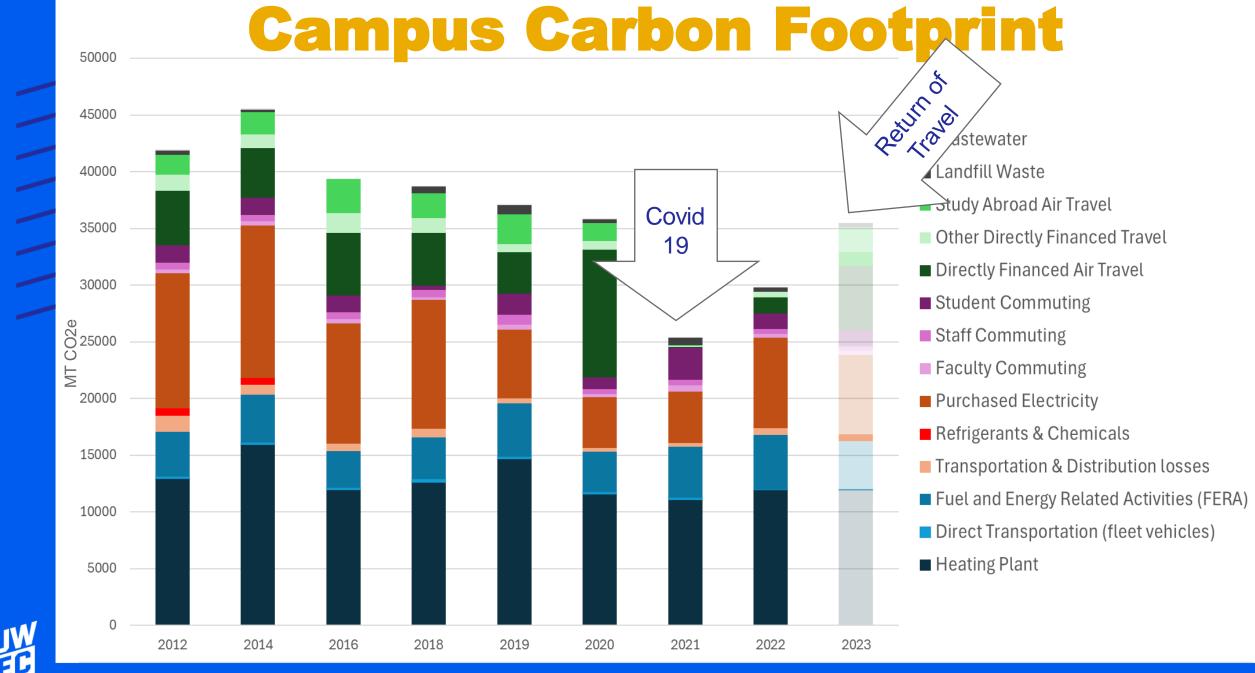


Each ridge in the chart shows every day in a year and how their temperatures compare with the 1991-2020 average







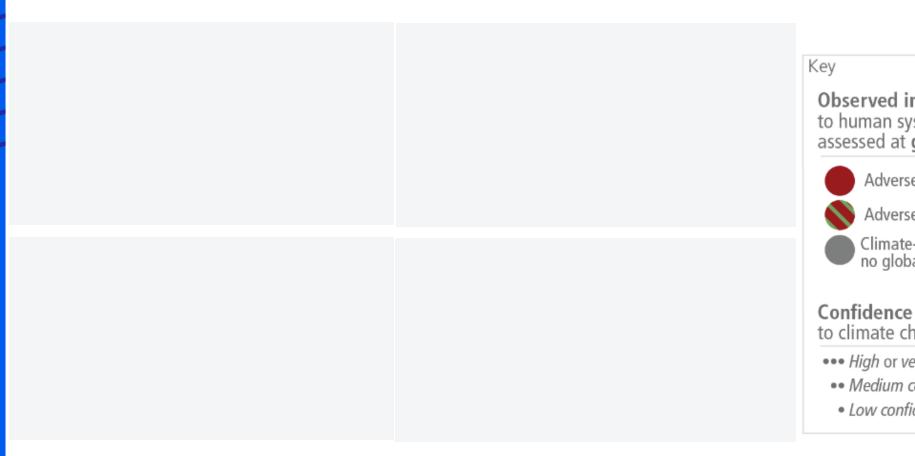








What will climate change do? IPCC AR6



Observed increase in climate impacts to human systems and ecosystems assessed at global level

Adverse impacts

Adverse and positive impacts

Climate-driven changes observed, no global assessment of impact direction

Confidence in attribution to climate change

- ••• High or very high confidence
- •• Medium confidence
- Low confidence





September 22, 2016. CTH Q East of CTH K.



September 22, 2016. CTH G near Hathaway Creek.



Breakdown of UWEC Travel

Flight Emission by type of Travel									
Year	Source	Qnty - passenger miles	GHG MTCDE	Cost to Offset – high quality avg.*	Cost to Offset – Airline avg.**				
Average, FY 2012-2019	Directly Financed Outsourced Travel: Air: Faculty / Staff	4,289,828	1,539	\$ 142,947.48	\$ 79,087.97				
Average, FY 2012-2019	Directly Financed Outsourced Travel: Air: Students	6,205,179	2,863	\$ 104,236.41	\$ 57,670.45				
FY Average, 2012-2020	Study Abroad: Air Travel	4,546,364	2,176	\$ 79,226.03	\$ 43,833.06				
Overall Avg.	All	14,656,766	6,384	\$ 232,407.30	\$ 128,583.03				



Average Carbon Emissions from flying, UWEC

Annual Flight Emissions – All Flights						
Year	Quantity - passenger miles	GHG MTCDE				
2012	10,152,873	6,531				
2014	13,961,211	6,345				
2016	19,023,584	8,523				
2018	15,507,769	6,811				
2019	14,488,045	6,290				



Social Cost of Carbon

The Biden administration has been using the Interagency Working Group's interim value of \$51 per metric ton of CO2

In early 2024 the EPA proposed increasing that number to \$190

- Discount rate: How valuable is the future?
- This number literally puts a value on human lives and quality of life

Another way to value: Carbon Offsets

Another option, not a best practice

Will there be penalties or fees associated with institutional carbon emissions?

 Many publicly traded companies now have to report portions of their carbon emissions under new Securities exchange Commission rules



Katingan REDD+ Forest Protection

\$3.15 - \$7.47 / t

Reducing Indon restoring 149,8

₽ REDD+



CarbonCure Concrete Mineralization

\$165 / t

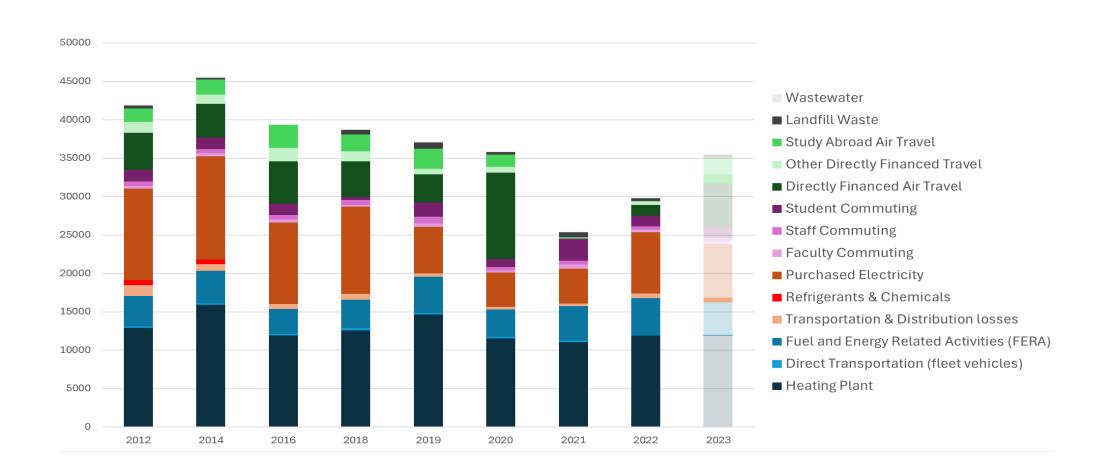
Injecting CO₂ into cement to make super-strong low-carbon concrete

🙈 Concrete Injection

Add to order



35,000 MT CO2 e = \$1,212,960 annual impact for UWEC @ \$190/ton for Air travel only





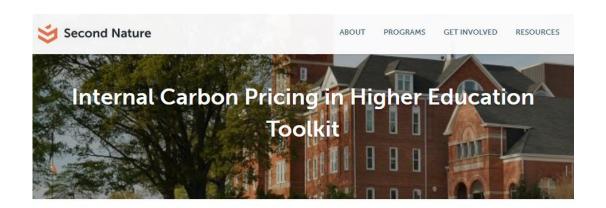
Carbon Offset Options Totals \$129,000 to \$232,000 annual cost at UWEC

Cost of offsets \$/metric ton of carbon										
American Airlines cost per metric ton offsets	British Airways cost per metric ton offsets	<u>Delta</u> <u>Airlines</u>	Patch "Conservation Blend"	Patch "Avoidance & Novel Remova I Technologies"	<u>Patch</u> <u>"Oxford</u> <u>Glidepath"</u>	Average cost of offset per ton – High Quality avg.*	Average cost of offset per ton – Airlines avg.**			
\$14.73	\$40.62	\$5.07	\$23.00	\$37.00	\$98.00	\$36.40	\$20.14			



What if we kept it simple and revenue neutral?

- Example: \$10/flight Climate Fee
- All \$ come back to their respective campuses OR in a central fund?
- Allocate towards facilities, solar feasibility studies, grant match, etc.
- Introduce the need and put a cost to carbon neutrality in travel
- Calendar year 2023: 21,638 tickets in UW
- \$216,380 total for ALL of Universities of Wisconsin



Co-edited by:



Colleges and universities are important leaders in preventing the worst impacts of climate change. Pricing carbon is one instrument schools can use to advance climate solutions. This toolkit provides recommendations, examples, and tools to guide schools through the process of exploring, designing, and implementing a carbon price on campus.

The toolkit is a product of the Carbon Pricing in Higher Education Working Group, a collaboration of institutions interested in internal carbon pricing. Visit the About Us section to learn more about the working group and the toolkit authors. The institutions contributing to this toolkit are:

















Thank you!



