

# Cal State East Bay Campus Sustainability Committee

Spring Semester Meeting  
April 12, 2019

# Agenda

- Sustainability Affiliates Report Out
  - ASI Sustainability Affairs Committee
  - SustainEastBay Club
  - Faculty Ad Hoc Senate Sustainability Group
- CSU Sustainability Policy Updates
  - CSU Single-Use Plastics Policy
  - CSU Sustainability Policy Update Draft v.4
- CSUEB Sustainability Updates
  - Sustainability Tracking, Assessment & Rating System (STARS)
  - Zero Waste Task Force: Contamination
  - CAP Milestones & Kudos
  - Solar IV MEA & Energy Efficiency at CSUEB
  - CSC Faculty Appointments
  - Earth Week
- Discussion
  - Directly Financed Air Travel Carbon Offset

# Sustainability Affiliates Report Out

# CSU Sustainability Policy Updates

# Single-Use Plastics Policy

Date	Policy
January 1, 2019	Eliminate single-use plastic carryout bags.
January 1, 2019	Eliminate plastic straws.
January 1, 2021	Eliminate single-use polystyrene (e.g. STYROFOAM™) food service items
January 1, 2023	Eliminate single-use plastic water bottles and 25% reduction annually.

# CSU Sustainability Policy Update Draft v.4

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graph LR; A[Input Phase: Steering Committee & Working Groups] --> B[Review Phase: CO solicit feedback, collect and analyze comments from stakeholders]; B --> C[Redraft Phase: CO determine how to incorporate comments into Board Level policy]; C --> D[Update from CO anticipated at Sustainability Officers' meeting this Fall];
```

*Input Phase:*  
Steering Committee  
& Working Groups

*Review Phase:* CO  
solicit feedback,  
collect and analyze  
comments from  
stakeholders

*Redraft Phase:* CO  
determine how to  
incorporate  
comments into  
Board Level policy

Update from CO  
anticipated at  
Sustainability  
Officers' meeting  
this Fall

# CSUEB Sustainability Updates

# Sustainability Tracking, Assessment & Rating System

- Good news!
- STARS is complete and under review
- Goal to submit to Association for the Advancement of Sustainability in Higher Education (AASHE) by Earth Day, April 22
- Anticipated score: Bronze
- Next steps:
  - AASHE Review
  - Return for final changes
  - Final submission
  - Rating earned!
  - Sustainability strategic planning with CSC AY19/20





# Zero Waste Task Force: Contamination

- Convened March 26th
- Representation:
  - Housing, Custodial, Energy/Water/Waste, Sustainability, Aramark
- Discussed challenges and opportunities
- Main areas of focus are education and infrastructure
- Voting on opportunities to focus on in each area
- Next meeting April 30th

# CSC Faculty Appointments

- Michelle Rippy & Patty Oikawa
  - Term ends end of AY18/19, have opportunity to renew for 1 more year.
- Ana Alexander & Ryan Heryford
  - One for one more year, with option to renew.
  - Will work with ExComm on recruitment for next Academic Year.

# EARTH WEEK

APRIL  
2019



Monday, 4/22

## Lunch 'n Learn

11:30 AM | New UU Bayview Rm

## Corrina Gould

12 PM | New UU MPR B



## CORE Building Groundbreaking

1:30 PM | Above Agora Stage

Film:

## Paris to Pittsburgh

4 PM | New UU MPR A



Tuesday, 4/23

## E-Waste Drive

With Civic Core  
9 AM-2 PM | Parking Lot K

## Spring Hoorah ☆

11 AM | Quad, Concord Campus

## Spring into H.O.P.E. ☆

11 AM | Quad, Concord Campus

Workshop:

## Environmental Racism

12 PM | DISC (New UU)

## Sustainaganza

12 PM | Front of UU



## Sustainability Student Leadership Panel

12:15 PM | New UU Bayview Rm

Film:

## WALL-E

1 PM | New UU MPR

Wednesday, 4/24

## ASI Earth Week Festival

11 AM | Front of UU

## DIY Succulent Planters

11 AM | Front of UU



## Campus Garden Dedication

2 PM | Between the Library & Bookstore

Film:

## WALL-E

7 PM | Lassen Hall Housing



Thursday, 4/25

## Farmers Market

11 AM | North Science/Einsteins



## Recycollection Fashion Show

Featuring the Urban Dance Club  
12 PM | UU/MI Lawn



## Restorative Yoga

12:15 PM | RAW Studio A

## EV Car Show & DIY Eco-Friendly Air Freshener

12:15 PM | RAW Plaza

Friday, 4/26

## Sustainability Walking Tour

9 AM | RAW Lobby

## Campus Clean Up

9 AM | Agora Stage



Workshop for Faculty:

## Sustainability Curriculum

11 AM | New UU Bayview Room

Saturday, 4/27

## City of Hayward Clean Up & Community Fair

8:30 AM | Weekes Park, Hayward

\*Individuals that require accommodations for these events, please contact Accessibility Services at: as@csueastbay.edu or (510) 855-3868



For more information visit: [csueastbay.edu/sustainability](http://csueastbay.edu/sustainability)

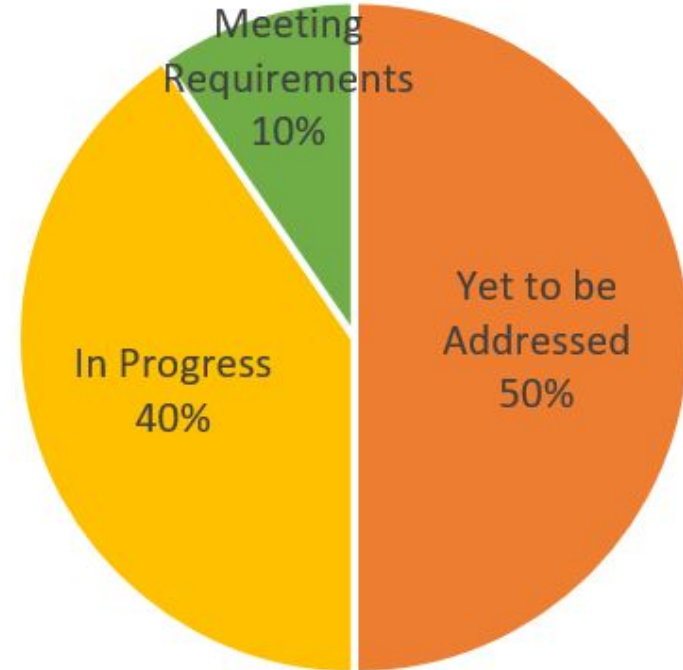
☆=Concord Campus

Presented by the Office of Sustainability  
In collaboration with ASI Sustainability Affairs, RAW, Parking & Alternative Transportation Services, Student Life, H.O.P.E., DISC, Urban Dance Club, Student Housing, Concord Campus, StopWaste, Civic Core, and City of Hayward.

# CAP Progress

- Report to Second Nature & President Morishita, May 1
- Meeting 100%
  - EDU3 - Include recognition of work on University ILOs in RTP process
  - PROC1 - Adopt Electronics and Appliance Procurement Policy that requires: Bronze EPEAT® or higher for EPEAT®-rated products, ENERGY STAR® for everything else
  - PROC4 - Establish 100% Recycled Copy/Print Paper Policy
  - ENG6 - Institute on-going energy management training of building technicians
  - TRAN7 - No net increase in the number of parking spaces for fossil-fueled vehicles.

## Total Progress on 52 Action Steps



# CAP Champions

- Great team, great participation (everyone gets an award!)
- Procurement
  - Above and beyond
  - PCard policy & Procurement Policy on website
  - Research
  - Bringing ideas to the table



# Solar IV MEA & Energy Efficiency at CSUEB

Discussion:



Offsetting Emissions from Directly  
Financed Air Travel

# Cal State East Bay

## Climate Action Plan: Travel-Related Emissions

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According to the Climate Action Plan (CAP), “...it is imperative that the University remediate travel-related emissions, as they are the University’s largest cause of damage to the global environment” (2018, pg. 67).

In order to achieve carbon neutrality by 2040 the CAP directs, “All state-funded travel will be carbon neutral or 100% offset by 2022” (2018, pg. 65).



# Why is offsetting travel-related emissions important?

A round-trip flight from San Francisco to New York emits about 0.9 metric tons of carbon dioxide **per passenger**. For an American, that represents about 6% of your carbon emissions for the entire year.

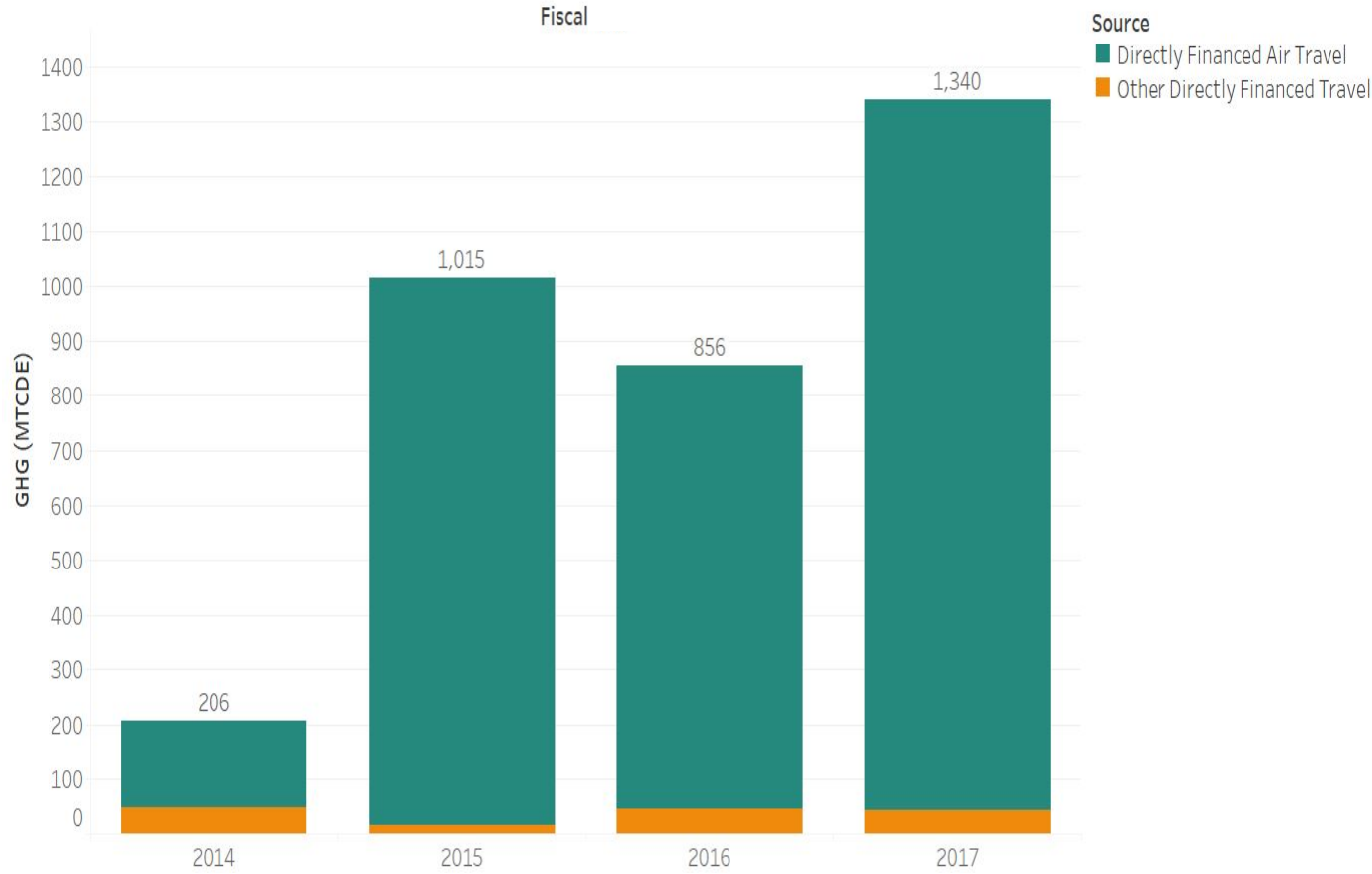


# What is Directly Financed Travel?

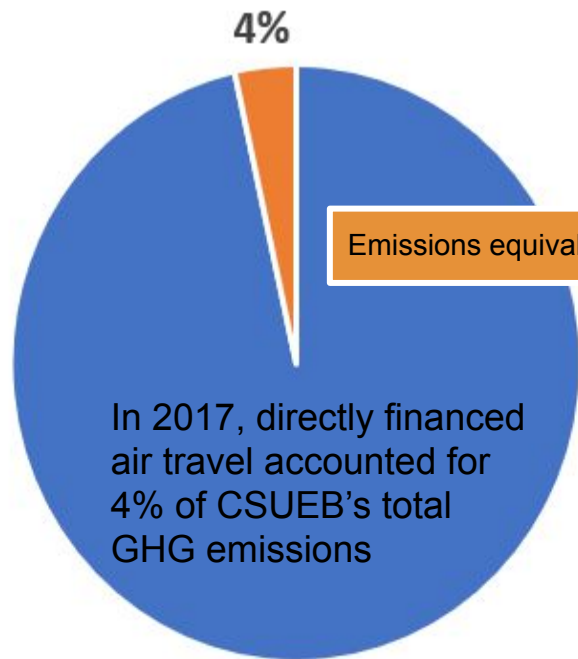
Directly financed travel includes all state-funded travel for University business.

At this time we are only considering air travel due to best available travel data and emissions from “other directly financed travel” are significantly less than air travel.

GHG Emissions (MTCDE) from Directly Financed Travel



# CSUEB's Emissions from Directly Financed Air Travel



Emissions equivalent to:

226

homes' electricity use for one year

275



Passenger vehicles driven for one year

1,417,914



Pounds of coal burned

■ Total GHG Emissions in 2017

■ Directly Financed Air Travel

# How do we reach our goal of carbon neutral directly financed air travel? It's easy!

Apply a minimal cost of carbon to directly financed air travel and use the funds in one of two ways:

- Option 1: Purchase verified carbon offsets, or
- Option 2: Reinvest in on-campus projects that provide measurable reductions in GHG emissions.



*Photo source: The Points Guy*

## We just need to figure out the details:

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- What will be the cost per flight?
  - Should there be a flat cost of carbon per flight or cost based on emissions per flight?
- Who pays?
- How do we use the funds?

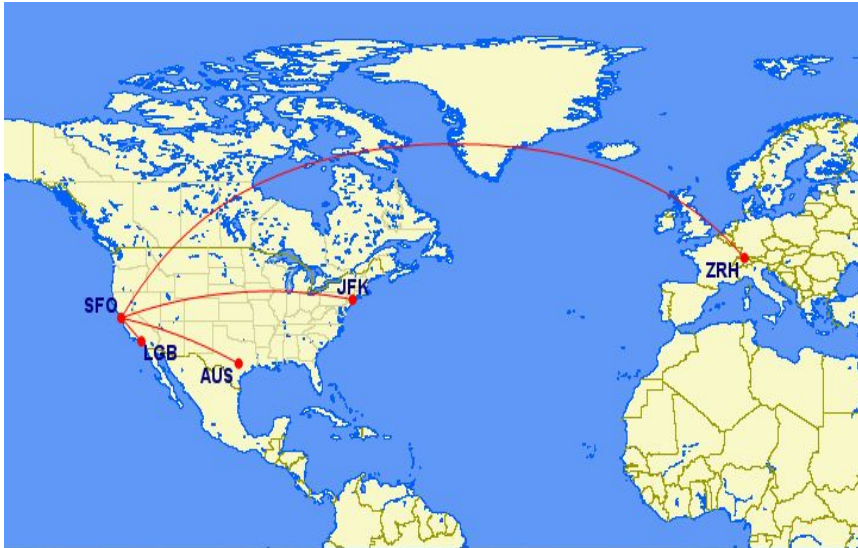
Let's discuss each in detail.

# What is the price of Carbon Offsets?

<b>State Approved Vendors of Certified Offsets &amp; Price (\$) / Metric Tons of Carbon Dioxide Equivalent (MTCDE)</b>		
<b>Vendor</b>	<b>Third Party Certifying Body</b>	<b>Current Price (\$) / MTCDE (for Businesses)</b>
CarbonFund.org	Verra, CAR, ACR & others	\$10
TerraPass	Verra, CAR	\$11
Native Energy	Verra, CAR	\$15.50
<b>Current average offset price ≈ \$12/MTCDE</b>		

The Environmental Protection Agency (EPA) projects the social cost of carbon (SC-CO<sub>2</sub>), a price meant to estimate the comprehensive damages caused by climate change, to be about \$40 per metric ton of CO<sub>2</sub> emitted. The current cost to offset one MTCDE of CSUEB's emissions resulting from directly financed air travel is significantly cheaper.

# Cost of Carbon per Flight



GHG Emissions (MTCDE) per Roundtrip Flight & Approximate Costs to Offset			
Origin-Destination	Approximate Air Miles Round Trip	Resulting GHG Emissions (MTCDE)	Approximate Cost to Offset Emissions (Based on Current Average Price of Carbon Offsets ≈ \$12/MTCDE)
SFO-LGB (SF-Long Beach)	700	0.1	\$1.20
SFO-AUS (SF-Austin, TX)	3,000	0.4	\$4.80
SFO-JFK (SF-New York, NY)	5,200	0.9	\$10.80
<b>Average price to offset domestic round-trip flights ≈ \$6.00</b>			
SFO-ZRH (SF-Zürich, Switzerland)	12,000	2.0	\$24.00

# Price of Carbon Used by Other Leading Higher Ed Institutions to Offset Air Travel Emissions

- UCLA - Air Travel Mitigation Fund
  - \$9 / domestic RT flight, \$25 / international RT flight
  - Re-invests funds in on campus GHG reduction projects
- University of Maryland - Carbon Neutral Air Travel Initiative
  - \$0.0027 / passenger mile (their travel agency already allowed for this level of tracking)
  - Purchases carbon offsets
- Arizona State University - ASU Carbon Project
  - \$8 / RT flight
  - Purchases carbon offsets



# Cost of Carbon Options

<u>Flat Cost of Carbon per Flight</u>	<u>Cost of Carbon based on Emissions per Flight</u>
<p>\$6 per domestic RT flight \$25 per international RT flight</p> <p>Pros</p> <ul style="list-style-type: none"><li>• Easy to implement</li><li>• Low administrative time</li></ul> <p>Cons</p> <ul style="list-style-type: none"><li>• May not allow full accounting of emissions from flights</li></ul>	<p>Estimated \$12 per MT, cost per flight depends on distance flown</p> <p>Pros</p> <ul style="list-style-type: none"><li>• Focusses on emissions</li></ul> <p>Cons</p> <ul style="list-style-type: none"><li>• Requires significantly more administrative time to determine emissions from every flight</li></ul>

“We opted to keep it simple rather than try to tie fees to exact miles traveled, as we had found in the review of practices across the country that other universities had become bogged down in trying to compute exact emissions and had been unable to get their programs off the ground.”

*-Renée Fortier, UCLA, Executive Director UCLA Events & Transportation*

# Who pays the cost per flight?

<p><b>Payout occurs at time of travel, made by the traveler's Department:</b></p> <ul style="list-style-type: none"><li>• Edit Travel Reimbursement Form to include line for cost of carbon</li></ul>	<p><b>-OR-</b></p>	<p><b>Payout occurs at the end of the year, made by each Division:</b></p> <ul style="list-style-type: none"><li>• Division calculates total cost at end of fiscal year</li></ul>
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## Exemptions

- Study abroad travel
- Grant-funded travel
- Group Travel Disclaimer - If a group of 2 or more people from the same department are traveling on the same flight to the same destination (regardless of connecting flights), the carbon charge would only be paid once by the department. If 2 or more people from the same department are on different flights to the same destination, then the department would pay an individual carbon charge for each party.

# How do we use the funds?

## Purchase Verified Carbon Offsets

Third party verification provides confirmation of reported emissions reductions and guarantees that the purchased carbon offsets are real and permanent.

California Air Resources Board (CARB) approved Offset Project Registries are:

- American Carbon Registry (ACR)
- Climate Action Reserve (CAR)
- Verra (formerly Verified Carbon Standard)

A designated committee, such as the CSC or CAP-IT, would collaborate to select which verified offset programs should be invested in based on their alignment with CSUEB's culture and values.

**-OR-**

## Invest in On-Campus Carbon Offset Projects

Campus entities (Staff, Departments, Student's, etc.) can submit proposals to receive funding for on-campus projects that would measurably reduce CSUEB's GHG emissions.

- Creates a platform for education and engagement about the climate crisis and potential solutions

A designated committee, such as the CSC or CAP-IT, would vote on which projects should be awarded the funding based on specified criteria (overall impact in reducing GHG emissions, student empowerment, etc.)

# Discussion

- What should the cost be per flight?
- Should there be a flat cost per flight or cost based on emissions per flight?
- Who pays the cost per flight?
- How do we use the funds?
  - Purchase carbon offsets or invest in on-campus carbon offset projects?

**Make a difference**  
when you fly.



# CSUEB FY2017 Directly Financed Flights

Business Flights (FY2017) Booked Through Global	
	Total # of Itineraries (does not account for flights booked outside of Global Travel Agency)
Domestic RT Flights	875
International RT Flights	31
Total RT Flights	906