

# FALL SUSTAINABILITY FORUM

Wednesday, October 9 | 12 - 2pm | TCC 450

# ENJOY A FREE LUNCH AND LEARN MORE ABOUT SUSTAINABILITY AT USC

#### FIND OUT ABOUT:

- 2028 Sustainability Planning efforts
- 2020 Sustainability Plan updates
- Zero waste programs at the Coliseum, inauguration & tailgating
- Green Engagement Fund, sustainable mobility solutions, and campus buildings' real-time energy use dashboard

#### EVERYONE WELCOME











HELP TO PLANT THE SEEDS FOR USC'S SUSTAINABLE FUTURE BY TAKING THE SHORT 2028 SUSTAINABILITY PLAN SURVEY.

SCAN THE QR CODE OR VISIT GREEN.USC.EDU/2028-PLANNING/

GREEN.USC.EDU | SUSTAINABILITY@USC.EDU

# Environmental Student Assembly

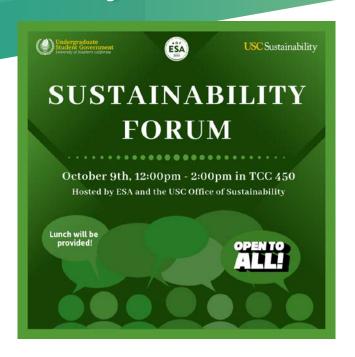


### Programming



- We host dozens of events a year
  - Promoting sustainability, education, awareness
- Signature Events
  - VegFest (11/11)
  - Earth Month
  - Sustainability For ums

# What do we want from today?



- Get everyone on the same page
- Understand the logistics of the University's sustainability effort
- Under stand the progress made under the 2020 plan
- Understand the progress of the 2028 plan
- Identify challenges/ opportunities
- Ask "dumb" questions

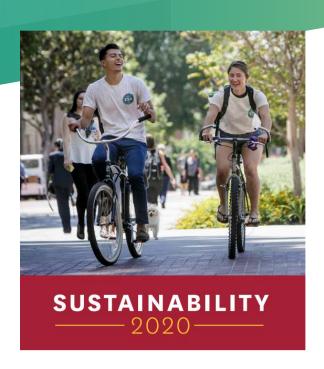
# What do we do?

### Advocacy



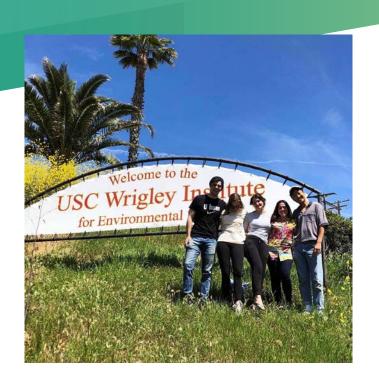
- Our Advocacy is focused on
  - Transit subsidies
  - Plastic use reduction
  - Water use reduction
  - Meat reduction in dining halls
  - Education
- ESA is represented on
  - Sustainability Steering Committee
  - The Working Group for Sustainable Education, Research and Operations

### Campaigns



- Recycling more recycling bins on campus, more composting bins in student dining hubs
- Meat Reduction 14.3%(<sup>1</sup>/<sub>7</sub>) reduction in beef consumption in dining halls
- Pre-Enrollment Sustainability Training training for incoming freshmen on how to be sustainable at USC

#### How can you get involved?



- Come to our meetings! Tuesdays 8-9 PM, TCC 450 (except not next week, Location TBD)
- Email our advocacy coordinator!
  - luchinsk@usc.edu
- Come to our office hours in TCC 224!
   Check the USG website!
  - https://tinyurl.com/y4jm4vxl

#### USC Sustainability 2020 Plan Progress Report August 2019

			METRIC	PROGRESS	
			ACHIEVED AUG	TO GOAL	
	ENERGY CONSERVATION/ GHG MITIGATION	GOAL	2019	AUG 2019	NOTES
1	* Reduce GHG emissions per square foot by 20% (2014 baseline)	20%	10%	50%	USC GHG reduction primarily driven by carbon reduction in LADWP's fuel supply
2	Capitalize on energy risks and opportunities		100%	100%	Galen, Wrigley Catalina, and C+G housing solar installations



				METRIC	<b>PROGRESS</b>	
				ACHIEVED AUG	TO GOAL	
		WASTE DIVERSION	GOAL	2019	AUG 2019	NOTES
1	*	Achieve 75 percent waste diversion (2014 baseline 54% diversion rate)				Program challenges stem from: 2018 change in City regulations (elimination of unsorted waste Materials Recovery Facility), slow rollout of campus recycling + composting tools, and lack of comprehensive waste
			75%	27%	36%	diversion plan
2		Increase education on waste reduction and recycling; expand diversion and recycling programs		100%	100%	



Γ				METRIC	<b>PROGRESS</b>	
				ACHIEVED AUG	TO GOAL	
		WATER CONSERVATION	GOAL	2019	AUG 2019	NOTES
_	1 4	D (25 (2014) 11 )				UPC recycled water pipe 99% complete, but City delayed recycled water feed to 2025. Minimal water
	1   *	Decrease potable water use 25 percent (2014 baseline)	25%	6%	24%	conservation efforts in place at HSC/hospitals
	2	Increase awareness of current water conservation practices		100%	100%	
	3	Implement audience-appropriate educational campaigns designed to modify behavior and increase conservation		100%	100%	



			METRIC	<b>PROGRESS</b>	
ļ			ACHIEVED AUG	TO GOAL	
	PROCUREMENT	GOAL	2019	<b>AUG 2019</b>	NOTES
1	* Purchase 20 percent of food from sustainable sources by 2020	20%	39%	100%	Aux Services has oversight
					Encompasses 6 subgoals. "32% Achieved" represents completion of subgoals as follows: significant
	Engage 75 percent of USC departments and offices in responsible purchasing practices (encompasses six sub-				progress achieved driving recycled paper purchasing, and implementing Office Depot sustainable shipping
2	goals)				+ green items program. Other four subgoals in early development. Sub-goals were neither developed nor
		75%	32%		approved by Procurement; primary goal may need to be reframed



				<b>PROGRESS</b>	<b>PROGRESS</b>	
				ACHIEVED AUG	TO GOAL	
<b>9</b> L		TRANSPORTATION	GOAL	2019	AUG 2019	NOTES
	1	Reduce the number of single-occupancy vehicles (SOVs) travelling to and from the USC campuses		100%	100%	
	2	Increase student, faculty, and staff participation in alternative transportation programs		100%	100%	Traveler mobility program, transportation subsidy



				PROGRESS	PROGRESS	
				ACHIEVED AUG	TO GOAL	
L		ENGAGEMENT	GOAL	2019	AUG 2019	NOTES
	1	Strengthen awareness of existing campus sustainability practices and set targets to increase activity		100%	100%	
2	2	Establish the USC campuses as living laboratories for sustainability				Out of Scope
3	3	Engage the community in the principles of sustainability		100%	100%	



				PROGRESS	<b>PROGRESS</b>	
				ACHIEVED AUG	TO GOAL	
		EDUCATION AND RESEARCH	GOAL	2019	<b>AUG 2019</b>	NOTES
1		Develop environmentally literate students + faculty				
2	,	Develop degree programs that train students to practice sustainability				Out of Scope
3		Develop research that includes cross-disciplinary studies, promotes competitive grant applications				

<sup>\*</sup> Goals with quantitative metrics

#### **Preventing Carbon Emissions**



Shop has already prevented 9 years of emissions!
Replacing the leaf blowers alone have prevented 774 tons of airborne pollutants.

We currently utilize **74** pieces of battery powered equipment, in addition to **39** large backpack batteries. Currently about 75-80% of power tools used at UPC are battery powered. However, about 85% of work completed is done using batteries.

#### Reducing our Negative Impact on the Environment.



Our ultimate goal is to be 100% battery powered.

Village Team Lead Jose Carmona utilizes a battery powered mower with a solar panel canopy to maintain the turf at the village. At the Village we utilize 100% battery powered equipment to maintain the landscape.

#### **Health Benefits for our Employees**



Making this change also benefits our employees' health.

Currently we have about 46 pieces of gas powered equipment in operation. Replacing these would prevent an additional 114 tons per year!

Groundskeeper Ramon Guerra trims a hedge using a battery powered tool. Groundskeepers are those thought to be most at risk, due to the long hours they spend operating gas-powered equipment. Battery Powered equipment is zero emissions.

#### **Driving Innovation & Technology**



In March of 2018 we hosted two equipment manufacturers that brought us prototypes of battery powered equipment.

These manufacturers flew their engineers to Los Angeles so they could observe their prototype equipment in action and get our feedback.

FMS landscape professionals provided insight of the operation and handling of the future battery powered equipment that they take back when designing their tools.





# Sustainability Affairs

usgsusaf@usc.edu



Isabella Caltabiano
Sustainability Director
Senior
Westchester, NY



Laura Pearson
Assistant Director
Junior
Oakhurst, CA

### In Partnership With:

Under graduate Student Body

Graduate Student Government

USC Housing Auxiliary Services

Interfraternity Council Panhellenic Council

**Admissions Center** 

Trojan Event Services

SustainLA

#### Marketing Materials for USC Housing







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**SEPARATE, DON'T CONTAMINATE** 



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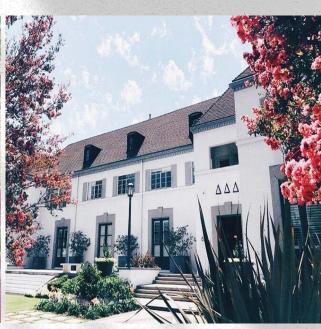
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### Introducing Composting To:







KAO

ГФВ



### Bringing SustainLA to the Farmer's Market





# usgsusaf@usc.edu







# USC TRANSPORTATION SUSTAINABILITY 2028

By: Shawn A. Chavira

**USC Transportation** 



#### Mobility Management Program

Mode	Operations	# of Employees
Fixed Route Bus System	32 Buses, 5000 daily passengers, 26 sq. mile service area	45 Employees
Campus Cruiser	25 Vehicles, 3000 weekly passengers, 2.5 sq. mile service area of UPC/HSC	108 Employees/Students
Safe Ride Program	30,000 rides performed by LyftLine (supplement to SafeRide Program)	Sub-Contracted Service
RideShare and Parking Services	Car/Van Pool, Metro, Metrolink, Discounts, Enforcement, Transit Subsidy	125+ Employees



#### Bus 26-Mile Service Area

Closed Community, ADA accessible Vehicles, CalOSHA and SCAQMD Compliant, In-house Police/Security,

Subcontracted Maintenance of vehicles

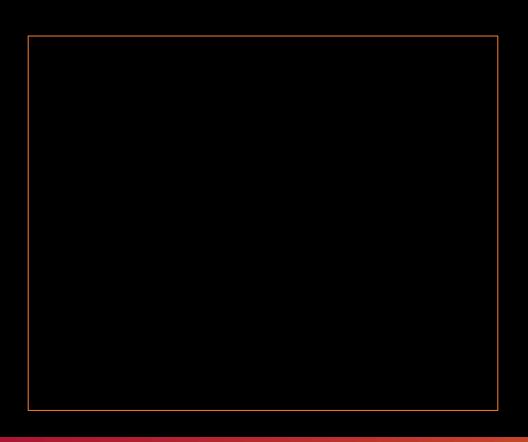


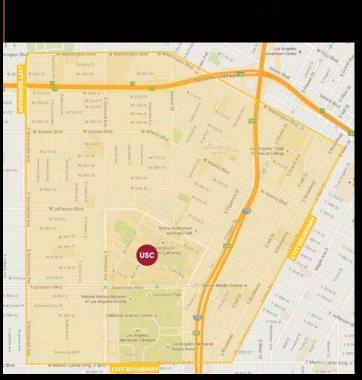
26 Mile Service Area	Route	Daily Miles	Frequency
	US-HSC	21.5	12 Min
	US-UPC	186.2	12 Min
	HSC-UPC	260.4	30 Min
	ICS UPC-HSC	238.7	30 Min
	SOTO	86.4	15 Min
	SOTO-HSC	78.8	25 Min
	PC	198	15 Min
	Α	87.4	30 Min
	В	84	30 Min
	С	67.5	30 Min
	<b>UPC-CTY CTR</b>	68.2	50 Min
	BUSWAY	14.4	20 Min
	<b>CIRCUIT TRAM</b>	74.4	20 Min
	CAL-JEP	9.9	20 Min
	ALHAMBRA	40.5	25 Min
	MDR	147.6	40 Min
		1661.8 Daily Miles	

#### Campus Cruiser 2-Mile Service Area

- Student run organization that provides point to point transportation during overnight hours (6pm to 3am/7days/week).
- Supplemental Service provided by **LYFT** at UPC only.







### CAMPUS MOBILITY MANAGEMENT











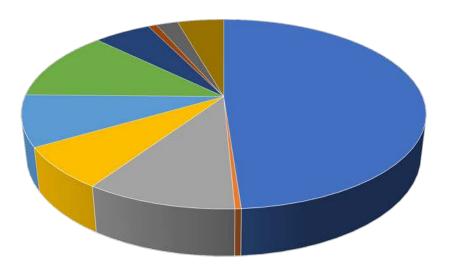






Walking\_BikeSharing\_Transit\_Drive\_CarSharing\_CarPoolingCampusCruiser\_Lyft\_
AutonomousVehicleProject

#### **AQMD Survey Results**



- Drive Alone 49%
- 2 or more persons in a vehicle 10%
- Rail/Plane 9%
- Bicycle 5%

- Motorcycle .42%
- Bus 7%
- Walk 12%
- Zero Emission Vehicle (no Hybrids) 1%
- Telecommute (reduction of more than 50% of trip) 2% Noncommuting 4%



# USC - Shifting the Transportation Paradigm

The Evolution and Impact of Ridesharing on our Culture and Economies

- Premiere Commuter Management & Ridesharing Software in the world.
- The most comprehensive platform that is available to the Transportation industry.
- By implementing this new software, USC will now join the ranks of GOOGLE and FACEBOOK
- The goal is to communicate with our local community of Faculty, Staff, and Employees regarding the importance of individual mobility management.
- Basic features are: Multi-modal Trip planning, Intelligent Rideshare Matching, automatic trip logging, incentives and competitions through gamification campaigns, Transportation Surveys, biking, Car Rentals, etc.
- It will help Transportation staff create a new way to look at current commuter behavior patterns, while helping reduce traffic from Single-occupancy vehicles, save money on employee parking, and increase health and wellness outreach programs that help maintain sustainability goals.

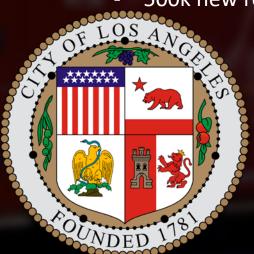
#### Green California

- Green Buildings Governors 2012 Executive Order
   Decrease department Water and Energy Usage by 20%
- Green Fleets 2020 Sustainability goal to use 10% less petroleum (Goal Met in 2017 20% reduction)
- 2019 Requirement for all City bus fleets to be Electric
- Increased toll roads



#### Green Los Angeles

- The Sustainability pLAn of Los Angeles
  - 2025 50% reduction Imported Water
  - 2025 Energy Storage goal 1654-1750MW
  - 2025 100% divestment from coal fired energy
  - 2025 150k housing units
  - 500k new residents in 20 yrs (Mobility Focused)



#### Green USC TRANSPORTATION 2028 GOALS

- 1. Fully Electric Fleet of Trams and Campus Cruisers
  - Proterra/DWP project (planning phase)
- 2. Increase renewable energy infrastructure in appropriate locations
- 3. Increase EV charging infrastructure
- 4. Create an e-scooter and /or bicycle-share program
  - "Scootergeddon SharkTank style"
  - 2012 and 2014 study = USC has highest concentration of bikes in Los Angeles County 8-10k bikes in a 1 mile radius around campus
- 5. Offer incentives to decrease SOVs travelling to campuses (e.g. transit passes and ride-share programs) to decrease parking demand HSC review
- 6. Increase Tram service frequency for increased populations to satellite campuses







The



Way

#### **Mobility Hub**



Mobility Lab

"With traffic at an all time high and public transportation readily available but not always accessible, URB-E's Mobility Hub at USC will help us connect our campus with the entire city."

Tony Mazza, Director of Transportation at USC

#### **Over Communicate**

# QUESTIONS



### USC Fall Sustainability Forum Oct 9, 2019

Overview: 2028 Sustainability Planning Process

### 2028 Sustainability Planning Process: High Level

- USC Sustainability Steering Committee + Office of Sustainability charged with developing the 2028 Plan proposal
- 2028 Plan proposal focuses on USC built environment (facilities and operations), for all campuses
- Academics, Education, and Research are out of scope

#### **Arup Related Project Experience**



C40 Sustainability PLAN, Los Angeles, CA



UC Berkeley Energy Delivery Options, Berkeley, CA



LADWP EBEWE Portfolio Assessment, Los Angeles, CA



Building Resilience Los Angeles: A Primer for Facilities, Los Angeles, CA



UCLA Carbon Neutral Masterplan, Los Angeles CA



C40 Cities Climate Leadership Program, Multiple Cities



Stanford Climate Adaptation Plan, Palo Alto, CA



Santa Monica Advanced Energy District Microgrid, Santa Monica, CA

### 2028 Sustainability Planning Process: High-Level

- Develop a USC 2028 Sustainability Plan proposal for next eight years, leading up to 2028 Olympics
- Organize 2028 Plan proposal around high-level strategic goals that set a compelling sustainability vision for USC
- Deliver 2028 Plan proposal outline to administration by early next year
- Deliver completed 2028 Plan proposal to administration by end of spring semester

### 2028 Sustainability Planning Process: Objectives

- 2028 Plan proposal outline to serve as initial planning estimate for goals and initiatives to which USC would have to commit, in order to have meaningful impact on reducing our carbon, water, and waste footprint
- It will provide a tool to estimate costs for USC to execute

### 2028 Sustainability Planning Process: Data Sets

- President Folt Sustainability Brief (gap analysis matrix)
- Benchmarking (AASHE and Peers)
- City pLAn, County Plan, LA28 commitments
- 2028 survey feedback + student/faculty/staff input
- Business Units and Office of Sustainability input
- Arup recommendations
- Academic Senate 2030 Sustainability Strategy

2028 Planning Survey Results





519 Responses



296
STUDENTS



136 STAFF



81 FACULTY



65 ALUMNI



9 OTHER

## 63% ARE INTERESTED IN SUSTAINABILITY



Know how to participate in Sustainability at USC?





## Know how to participate in Sustainability at USC?

















**ALUMNI** 

## Survey respondents were least aware of









Alternative Transportation





Purple Pipe



Sustainable Food Purchasing

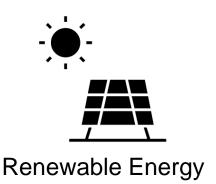


Composting



## Survey respondents want the following:











# "WHAT ARE THE MOST IMPORTANT THINGS USC SHOULD BE DOING TO BE MORE SUSTAINABLE?"



environmental compostplastic singleSUSTAINsolar work Campus Staff renewable waste USC water faculty, make energy building people

student recycle food Sustain Campus Ca

## SUSTAIN



Scan the QR code to take the planning survey, and share your opinions about sustainability on campus



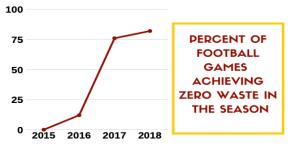
## LOS ANGELES MEMORIAL COLISEUM

## Zero Waste Program

2019



## 958,616 962,O47 2017 2018 ATTENDANCE ATTENDANCE 89% 91% 2017 2018 DIVERSION DIVERSION RATE



#### RECYCLING AND COMPOSTING DIVERTED



#### What is Zero Waste?

When 90 percent or more of waste materials are diverted from landfills through recycling, composting, or other forms of reuse, such as through donations.

#### *80-100*

That's how many custodial and sustainability staff assist with zero-waste goals at the Coliseum during games.

#### 24 hours

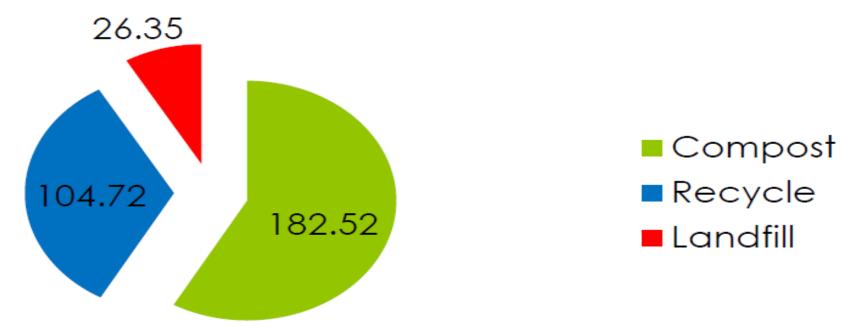
It takes a full day to process waste from a game – except on weekends when the stadium hosts both the Trojans and Rams. Then there's as little as eight hours to clean up between games.

### We're #1 (and #2)

The Los Angeles Memorial Coliseum is the largest NFL stadium and second-largest college stadium to achieve zero waste.

## Waste Distribution

## 2018 Season Total Waste Distribution (Tons Hauled)





Food Donated: .45 tons

Cooking Grease Recovered: .25 tons

Seasonal Average Diversion Rate:

87.79%

## COLISEUM



## **Trojans Stats:**

Trojans Average Diversion Rate (games 1-3):

84.01%

## Rams Stats:

Rams Average Diversion Rate (Games

1-2):

91%

## Program Awards + Accolades

- 2019 LA County Board of Supervisors Green Leadership Award
- 2019 Green Sports Alliance Green Innovator Award for Private Venue
- 2018 CRRA Outstanding Practices in Venue/Event Resource Recovery Award
- 2017 Pac12 Zero Waste Bowl Champion
- 2016 Pac12 Zero Waste Bowl Champion
- 2015 Pac12 Zero Waste Bowl Most Improved

Questions?

## Tailgate Waste Diversion

Elias Platte-Bermeo

Sustainability Program Assistant

**USC** Office of Sustainability

## THE TAILGATE PROBLEM



Greenhouse gas emissions

Soil & water contam in ation

## 7 to 15 TONS OF LANDFILL WASTE

Form s poor habits

Missed educational opportunity



## USC Office of Sustainability

## THE PLAN ———

Control the Inputs



Provide the Infrastructure



**Engage the Attendees** 











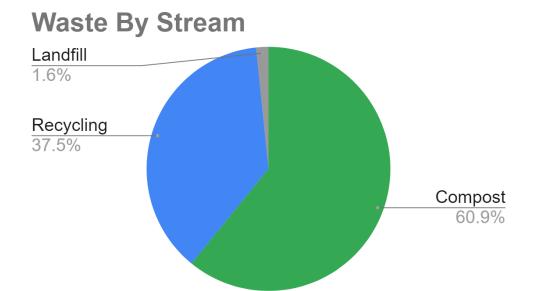






## MARSHALL TAILGATE: \_\_\_\_\_

98% Diversion Rate





## USC Office of Sustainability

## LOOKING AHEAD





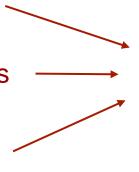
**Enclosed tailgates** 



Student waste ambassadors



Visible education pieces



1to 3 tons of waste diverted each game day



**Engagement Collateral** 



USC is rolling out new tools and programs to make our campus more sustainable.

Here's what we're doing:

ALL Trojans can make small behavior changes that have a big environmental impact.

Here's what you can do:



## REDUCING GREENHOUSE GAS EMISSIONS

This fall, USC is launching a digital dashboard that displays campus energy usage in real time. This helps make our buildings more energy efficient by increasing awareness of energy usage.



#### **FLEX YOUR POWER**

- Turn off the lights! Use natural lighting and spot lamps instead of overheads.
- Adjust thermostat setpoints to 78° in the summer and 68° in the winter.
- Power down game consoles, TVs, computer and other electronics.



## REDUCING WATER CONSUMPTION

USC has installed "purple pipe" throughout main campus so we can receive recycled water from the City when it becomes available. This will help reduce our potable water for campus cooling systems and irrigation use.



#### **BE WATER WISE**

- Take shorter showers.
- Only wash full loads when doing laundry.
- Use the dishwasher hand-washing dishes can waste 9x as much water.
- A small faucet leak can waste up to 20 gallons of water a day. Report leaks to Housing Maintenance at hsmtma.usc.edu.



#### **DIVERTING WASTE**

This fall, USC is composting pre-consumer and post-consumer food waste in all three residential dining halls. Composting prevents food from decomposing in landfill and emitting harmful greenhouse gases.



#### **MASTER THE THREE R'S**

- REDUCE food waste by being mindful of your portions.
- REUSE refillable water bottles at the 82 hydration stations in USC residence halls.
- RECYCLE! Look for new waste diversion signage on bins in academic and admin buildings. Too much trash in the recycling means the whole bin gets sent to landfill, so Separate, Don't Contaminate!



## SUSTAINABLE TRANSPORTATION

USC recently launched Traveler, a mobility platform that uses USC sustainable transportation options to facilitate travel planning and minimize carbon emissions from cars. Visit gettraveling.usc.edu.



## HELP REDUCE SMOG AROUND CAMPUS

Reconsider how you travel to campus - walk or bike, use public transit, and carpool.







USC is rolling out new tools and programs to make our campus more sustainable.

ALL Trojans can make small behavior changes that have a big environmental impact.

#### HERE'S WHAT WE'RE DOING:

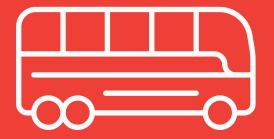


### **SUSTAINABLE TRANSPORTATION**

Use Traveler, USC's mobility platform for sustainable travel planning, to minimize carbon emissions. Sign up at gettraveling.usc.edu.

Or skip the traffic and commute to campus using public transportation! USC's new transit program subsidizes 50% of faculty and staff public transit costs. To enroll visit transnet.usc.edu.

#### **HERE'S WHAT YOU CAN DO:**



### **HELP REDUCE SMOG AROUND CAMPUS**

On October 2, support California Clean Air Day by reconsidering how you travel to and from campus walk or bike, use public transit, or carpool! Share a safe ride home with friends by using the Campus Cruiser App to help minimize your carbon footprint!





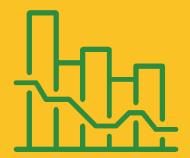




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- Power down game consoles, TVs, computers and other electronics.









"Sustainable
development is
development that meets
the needs of the present
without compromising
the ability of future
generations to meet their
own needs."

Brundtland Commission Report, United Nations, 1987

Under President Folt's leadership, the Trojan Family is committed to advancing sustainability at USC.

Fight On!

**USC** Sustainability



## SUSTAINABLE

LITTLE BEHAVIOR CHANGES CAN ADD UP TO A BIG ENVIRONMENTAL IMPACT. PLEDGE TO MAKE THESE CHANGES IN YOUR DAILY ROUTINE.

SIGN THE DIGITAL PLEDGE AT GREEN,USC.EDU FOR

10% OFF

REUSABLE WATER BOTTLES AT THE USC BOOKSTORE!
"SEE GREENUSCEDU FOR COUPON AND DETAILS

Turn Off The Lights - Use natural lighting and LED lamps instead of overhead lights.

Chill Out - Adjust thermostat setpoints to 78° in the summer and 68° in the winter.

Be Water Wise - Take shorter showers, wash only full loads when doing laundry, use a dishwasher instead of washing by hand, and report leaky fixtures to hsmtma.usc.edu.

Take The Sustainability Survey -USC is developing our 2028 Sustainability Plan now; we want to hear from you!







Unplug - Power down game consoles, TVs, computers, and other electronics.

Reuse & Refill - Use a refillable water bottle at the 82 hydration stations in USC residence halls.

Stop Talking Trash - Look for new signage on waste bins around campus, and sort your waste properly. Make sure items are clean and dry, and separate, don't contaminate.

Don't Throw It All Away - Use reusable utensils, food containers, and grocery bags.

Erase Your E-Waste - Recycle batteries, printer toner, and electronics at the E-waste bins in USC Housing Customer Service Centers.

Take A Ride On The Green Side - Reduce your car trips and find convenient alternative transportation options on *gettraveling.usc.edu*.

Never Refuse To Reuse - Check out USC's Surplus Store (3427 S. Grand Avenue) for affordable second-hand furniture, appliances, bikes, and more.

Think Global, Shop Local - Buy locally at the Trojan Farmers Market on Wednesdays, from 11am-3pm in McCarthy Quad.

Meat Us Halfway - Eat Food, Not Too Much. Mostly Plants.

Be a Tree Saver, Use Less Paper -

Take notes electronically, print double-sided, and use recycled paper.

#### **USC** Sustainability





## TAKE THE PLEDGE

LITTLE BEHAVIOR CHANGES CAN ADD UP TO A BIG ENVIRONMENTAL IMPACT. PLEDGE TO MAKE THESE CHANGES IN YOUR DAILY ROUTINE.

SIGN NOW TO RECEIVE A 10% OFF COUPON\*
FOR RESUABLE WATER BOTTLES AT THE
USC BOOKSTORE!





## **USC** Sustainability



THANK YOU!

