Sustainability Steering Committee
Spring 2021 Meeting
March 4, 2021
Agenda

Part 1
- Welcome, Introductions, and Ground Rules
- SME Updates + Discussion

Part 2
- Chief Sustainability Officer Position
- Sustainability 2028 Plan Proposal Objectives and Elements
- Governance, Accountability, and Implementation
- Close and Next Steps.... Earth Week SCelebration!
SME Updates

- Elias Platte Bermeo - OoS
- David Donovan – Transportation
- Gina Whisenant - FPM Waste
- Karen Reed - FPM Water
- Peniel Park - Procurement (no slide)
- Farris Sukkar - OoS
- Jill Sohm - ENST (no slide)
- Nichelle Huizar - Aux Services
- Zelinda Welch - FPM Energy
FY21 Projects: DT Ads Promotional Support

STARS

THIS SPRING, USC SUSTAINABILITY IS SHOOTING FOR THE...

STARS
Sustainability Tracking, Assessment & Rating System

Zero-Waste Pilot

LET’S TALK ABOUT CLIMATE CHANGE
It’s Happening NOW
FY21: USC Transportation Sustainability Updates

HSC Valley Parking Lot (VPL) EV charging stations

- 99 new ports, installed by May 31, online Aug/Sept ’21 (LADWP delays)
- Campus EV charging station inventory will increase to 226 Level II ports across both campuses, plus additional 2 Level III ports at UPC
- Zelinda Welch and Peter Ha coordinating LADWP rebate program application (~$230K)

FPM Electrical Capacity Survey

- Determined locations at UPC where additional EV charging stations could be added to existing structures
- Potential +143 ports in three locations (USC Shrine, Figueroa Street, Flower Street Structures), at a cost of ~$2M
FY:21 USC Transportation Sustainability Updates

Potential LA Metro Partnership?

• Applying to partner with LA Metro on a research study to get people out of their SOV’s (Single Occupancy Vehicles) post-COVID

• If approved to join study, USC would receive grant money to incentivize employees to use public transportation

Mandatory AQMD Survey Recently Completed

• Originally due June 2, 2020 – three separate 90-day extensions granted due to COVID. Results will count for BOTH 2020 and 2021

• USC’s Average Vehicle Ridership (AVR) is 4.60 (target: 1.50)

• Limited value due to COVID impacts – will always be considered an anomaly
FY21 Project: Mini Multi-Stream Pilot Program

- Installed 4 BINS The Village
- Installed 4 BINS Pappas Quad
- Conducted Audits on contamination, fullness, and most commonly disposed of items and signage
- Revised signage will be based on audit results.
- Audits indicate people will recycle and compost when provided the correct tools.
- Composting and Recycling slots had an overall 90% clean rate
FY21 Projects: Water Conservation Update

1. Water Metering
   • Phase 1 completed installation of water sub-meters at 14 buildings
   • Phase 2 currently in progress – 27 additional locations

2. Low Flow Fixture Replacements
   • Approx. 1,650 low flow touchless faucets to be installed in non-housing buildings at UPC/HSC
   • As of 3/1, 1,508 faucets complete across 112 buildings

3. Landscaping
   • Continue to install native landscaping – plot of shade loving native plants on north side of BSR

4. Stormwater
   • New construction projects continue to install stormwater infiltration systems to recharge the groundwater aquifer
# FY21 Project: STARS Assessment Category Status

<table>
<thead>
<tr>
<th>Preface (PRE)</th>
<th>Academics (AC)</th>
<th>Engagement (EN)</th>
<th>Operations (OP)</th>
<th>Planning &amp; Administration (PA)</th>
<th>Innovation (IN)</th>
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<tbody>
<tr>
<td>Executive Letter</td>
<td>Academic Courses</td>
<td>Student &amp; Employee</td>
<td>Air &amp; Climate</td>
<td>Coordination &amp; Planning</td>
<td>Innovative Practices</td>
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<td>Points of Distinction</td>
<td>Learning Outcomes</td>
<td>Peer Education</td>
<td>Buildings</td>
<td>Diversity &amp; Affordability</td>
<td>Practices</td>
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<td>Institutional Characteristics</td>
<td>Campus as Outcomes</td>
<td>Outreach</td>
<td>Energy</td>
<td>Investment &amp; Finance</td>
<td>Leadership in Higher</td>
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<td>Living Lab Research</td>
<td>Student Life</td>
<td>Food &amp; Dining</td>
<td>Wellbeing &amp; Work</td>
<td>Education</td>
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<td>Research</td>
<td>Public partnerships</td>
<td>Grounds</td>
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**KEY**
- Red: Not Started (Pre-data collection)
- Yellow: In Progress (Data requested)
- Green: Completed (Data collected)
# FY21: STARS Assessment Timeline

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<td>Kick-off (core team)</td>
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<td>Outreach to key-stakeholders</td>
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<td>Announcement from Senior Leadership</td>
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<td>Community STARS review and Q&amp;A</td>
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<td>Progress Review</td>
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<td>STARS submission</td>
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<td>Summary to the community</td>
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Experiential Learning: Campus Sustainability Map

- Utilize data from campus built environment and operations as a “living lab” to support academic class
- Deliverable is an interactive campus map that visually communicates campus sustainability-related information
Deliverable is a dashboard that visualizes the environmental impact of campus trees, including:
- air quality
- carbon storage
- energy savings
FY21 Projects: Auxiliary Services
USC Bookstores, USC Hospitality, USC Housing, USC Hotel and LA Memorial Coliseum

Single Use Plastic Elimination
  Focusing on to go packaging, plastic beverage bottles & assessment for a reusable plan

Waste Stream Management
  Recycling and composting across all units (front of house/back of house)
  Engagement and education

Green Purchasing Practices/Supply Chain review
  Upstream commodities, GHG commuting inventory

Green Certifications
  Buildings and/or operations

Eco-Monday’s Programming in Residential Dining
  Healthy eating engagement

Infrastructure Updates & Tracking
  Fixtures, LED lighting, energy & water conservation, etc.
1. LED Lighting

- LED retrofits in 20 buildings across campus. Effort includes retrofitting 39,000 lamps, which are estimated to save 5.5M kWh/yr.

2. Energy Audits/ RCx

- Selected 6 buildings for complete RCx and Energy/Water Audits. Including CAR, CEN, FMT, PSO, TRH/TRE, and UPX. Focus on operational improvements and long-term investments.

3. Benchmarking

- 150 buildings will be benchmarked in Portfolio Manager, includes water, natural gas, and electricity. Participated in the Higher Education Benchmarking Initiative (HEBI) pilot project.

4. Pony Chiller

- Galen Center is in the process of installing a pony chiller. This type of chiller more efficiently supplies cooling during low loads, in turn saving electricity. Savings projected at 100,000 kWh/yr.
FY20: GHG Emissions Inventory Summary

- Total Emissions (Scopes 1, 2 and 3)
  - Absolute emissions dropped by 19.4%

- Scope 1 + 2 Emissions
  - Absolute emissions dropped by 17.7%
  - Scope 1 absolute emissions increased by 16%
  - Scope 2 absolute emissions dropped by 26%
    - LADWP’s carbon intensity dropped by 31%
    - USC improved its building energy efficiency by 11.8%
  - Normalized (per square foot) emissions dropped by 35%

### Table: GHG Emissions Inventory Summary

<table>
<thead>
<tr>
<th>Scopes</th>
<th>Energy Consumption MMBtu</th>
<th>kg CO₂</th>
<th>kg CH₄</th>
<th>kg N₂O</th>
<th>Metric Tons eCO₂</th>
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<tr>
<td>Scope 1</td>
<td>724,925</td>
<td>38,897,055</td>
<td>3,661</td>
<td>217</td>
<td>39,063</td>
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<td>Scope 2</td>
<td>919,092</td>
<td>93,783,844</td>
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<td>93,784</td>
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<td>Scope 3</td>
<td>1,116,396</td>
<td>104,687,585</td>
<td>237,705</td>
<td>4,593</td>
<td>112,560</td>
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<tr>
<td>All Scopes</td>
<td>2,760,413</td>
<td>237,368,484</td>
<td>241,366</td>
<td>4,810</td>
<td>245,407</td>
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</tbody>
</table>

- Absolute emissions dropped by 19.4%
Agenda

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Chief Sustainability Officer (CSO) Position

OVERVIEW

• CSO position is supported by the PWG

• Primary responsibilities:
  1) 2028 Plan operations and reporting
  2) Budget and funding
  3) Support for experiential learning opportunities
  4) Support for engagement, communications and community outreach

SEARCH PROCESS

• Coordinating with central HR; engaged Korn-Ferry

• Position posted – February 16

• Search committee stakeholders will be included in the interview process (faculty, staff and students)
### PWG Sustainability 2028 Plan Objectives and Elements

(Version 2.0, 2-26-21)

<table>
<thead>
<tr>
<th>OBJECTIVES</th>
<th>ELEMENTS</th>
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<tr>
<td>• Facilitate <strong>coordination</strong> of sustainability activities university-wide</td>
<td><strong>Education</strong></td>
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<td>• Foster sustainability <strong>education</strong>, <strong>research</strong>, <strong>operations</strong>, and <strong>engagement</strong> university-wide</td>
<td><strong>Social Impacts DEI/EJ</strong></td>
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<td>• Provide <strong>implementation</strong> timelines and metrics</td>
<td><strong>Research</strong></td>
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<td>• Incorporate <strong>social impacts</strong> in steps taken to reduce the threat and adapt to the impacts of climate change</td>
<td><strong>Campus</strong></td>
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<td>• Support a university sustainability governing and accountability council</td>
<td><strong>USC Sustainability 2028</strong></td>
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<td><strong>Engagement</strong></td>
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## PWG Sustainability 2028 Plan – Template (2.3, 3-1-21)

### Sustainability Origins & Impacts

<table>
<thead>
<tr>
<th>Goals for Five Sustainability Elements</th>
<th>2028 Aspirations</th>
<th>Stakeholders Responsible for University Coordination</th>
<th>Capacity, Resources, and Data Needs to Achieve Ambitions</th>
<th>3-4 Year Ambitious Goals and Pathways</th>
<th>3-4 Year Metrics and Outcomes</th>
<th>2028 Metrics and Outcomes</th>
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<td>Social Impacts, DEI and EJ</td>
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<td>Operations Campus Plan, STARS</td>
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Governance & Accountability (draft recommendation)

Office of the President

Ideation

President’s Working Group on Sustainability (PWG)

- Sustainability, DEI, Environmental Justice, Social Impacts (POC TBD)
- Ad Hoc Advisory Committees
- Education (Provost, or delegate)
- Research (Vice Provost, Research)
- Engagement (CSO, tentative)
- Campus Plan (CSO, tentative)

Execution

President’s Sustainability Coordinating Council (PSCC)

- SVP Admin (co-chair)
- Provost (co-chair)
- Academic Senate Pres. PWG Chair
- Ad hoc (topical areas)
- CIDO
- CSO
- Deans (as needed)
- FPM
- Staff Assembly Pres.
- Student Govt. Reps
- SVP Finance
- Univ. Communications
- Univ. Relations
Implementation

PSCC CORE RESPONSIBILITIES / ANNUAL ACTIVITY CYCLE (Version 2.0.b 3/1/21)

REVIEW
- Review 2028 Plan performance metrics to inform budget and planning decisions for next FY

ASSESS
- Benchmark and assess new opportunities, regulations, and technologies with PWG and campus stakeholders

REPORT
- Publicize Scorecard on 2028 plan elements: DEI, education, research, engagement, campus plan reduction target, adjustments to plan, etc.

ADJUST
- Adjust and update plan projects, targets, goals, funding, and alignment with DEI/EJ trends
USC Sustainability

Instagram: @green.usc

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