



PACES Presents  
Green Spotlight:  
Institutionalizing  
Sustainability in Theater and  
Dance Programs

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Program for the Assessment and Certification of the Environment and  
Sustainability

2018

# UCSB SUSTAINABILITY PACES



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Bachelor's of Arts in Economics

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# Introduction

The Program for the Assessment and Certification of the Environment and Sustainability is a resource that helps academic departments and on-campus events reduce their environmental impacts while aiming to institutionalize sustainability.

During Fall 2017, the PACE team assessed UCSB's Theater and Dance department. We will share our process of the assessment, findings and main recommendations, and overall lessons learned.

# Our History

OFFICE



EVENTS



LABORATORIES



# PACES Office Process

MANAGEMENT  
SERVICES  
OFFICER  
INTERVIEW

BUILDING  
OCCUPANT  
SURVEY

BUILDING  
WALKTHROUGH

DEVELOP  
RECOMMENDATIONS &  
FINAL PRESENTATION

**MANAGEMENT  
SERVICES  
OFFICER  
INTERVIEW**

# M SO Interview Example

## Business Officer Survey (Program for the Assessment and Certification for the Environment and Sustainability)

In this survey, we will be using the following definition of the term "sustainability". This is not meant to be authoritative, but rather as an agreed upon assumptions to ensure consistency. Sustainability: "...meeting the needs of present generations without jeopardizing the needs of futures generations - a better quality of life for everyone, now and for generations to come. It offers a vision of progress that integrates immediate and longer-term needs, local and global needs, and regards social, economic and environmental needs as inseparable and interdependent components of human progress." (European Commission, 2006).

*\*BE CURIOUS: Ask a lot of questions*

*\*Let them get off topic*

*\*Dress business casual*

### General Information

1. What is the name of your department?

### Theatre and Dance

2. How many staff/faculty members work in your department?

**13 career staff; 20 faculty members**

3. If this is an academic department, how many graduate/PhD students do you have?

**20-25**

4. If this is an academic department, how many students do you have in your major programs?

**-200 students; (dance: <100) (theater: >100)**

5. If this is an academic department, how many students do you have in your minor programs?

**Hard to track; -25-30 students**

6. How many student workers or interns do you have?

**Currently 8-9 students but up to 20 on call during the school year**

### Communications/Training

1. If this is an academic department, does your department inform students about your department's environmental efforts? If so, how?

**Tries to teach students about sustainable practices in the production and design of theater, however there is no formal communication regarding the sustainable efforts of the department**

2. Does your department routinely incorporate workshops or guest speakers on sustainability into staff and/or faculty meetings? Please explain.

**While the department does not incorporate workshops or guest speakers on sustainability into staff and/or faculty meetings (due to time constraints), the Production staff meets weekly and would like to further discuss the topic of sustainability in these meetings**

3. Do you provide any sustainability training or workshops for new employees?

**Not currently**

4. Do you hold any other routine trainings or workshops for staff, faculty and/or students related to sustainability?

**Not currently, but all production staff are heavily involved in sustainable conversation as all the staff have teaching responsibilities**

5. Does your department have a sustainability plan? If so, please describe the plan and what it covers.

**The department has a loose sustainability plan that focuses on the feasibility and cost of purchasing more sustainable goods and equipment**

### Energy

1. Are you currently pursuing/planning a renovation project? (Y/N/Other)

**Yes, have plans to purchase a new stage lift; also have participated in TGIF grant funding in the past for the replacement of incandescent lightbulbs with LED in the classrooms**

### Educational projects with the USITT

2. When you conduct renovations, are you in contact with the sustainability coordinator/intern in Facilities Management? (Y/N/Other)

**Not too often as they are constrained by time and budget, but would like to look into contacting Facilities Management for sustainable recommendation regarding renovations.**

3. When conducting renovations, do you request natural and/or low-emission furniture, carpet, and building materials?

**No**

4. When purchasing new equipment, does your department verify the items being ordered are energy-efficient ("Energy Star") appliances, when such options are available? (Y/N/Sometimes/Other)

**Yes, the department looks into purchasing EnergyStar rated equipment**

5. Do you ensure that Energy Star settings are enabled on public equipment? (Y/N/Sometimes/Other)

**Sometimes, it is the responsibility of the IT department**

6. Does your department install and use computer hardware programs that save energy by automatically turning off idle monitors and printers? (Y/N/Sometimes/Other)

**Yes, should be set standard by the IT department**

7. Has your department phased out current space/strip heaters and, where absolutely necessary, replaced them with energy efficient space heaters? (Y/N /Other)

**No**

8. How are centralized pieces of equipment turned off? (eg. Printers)

9. Has your department installed power strips? ([http://www.treehugger.com/files/2005/12/smart\\_power\\_str.php](http://www.treehugger.com/files/2005/12/smart_power_str.php)) (Y/N/Sometimes/Other)

10. Does your department replace refrigerators older than 10 years with new Energy Star models? (Y/N /Other)

11. Does your department centralize refrigerators/freezers to avoid mini-fridges in offices? (Y/N/Sometimes/Other)

# Topic Areas

Communication

Energy

Food

Human Health

Purchasing

Recycling/Waste

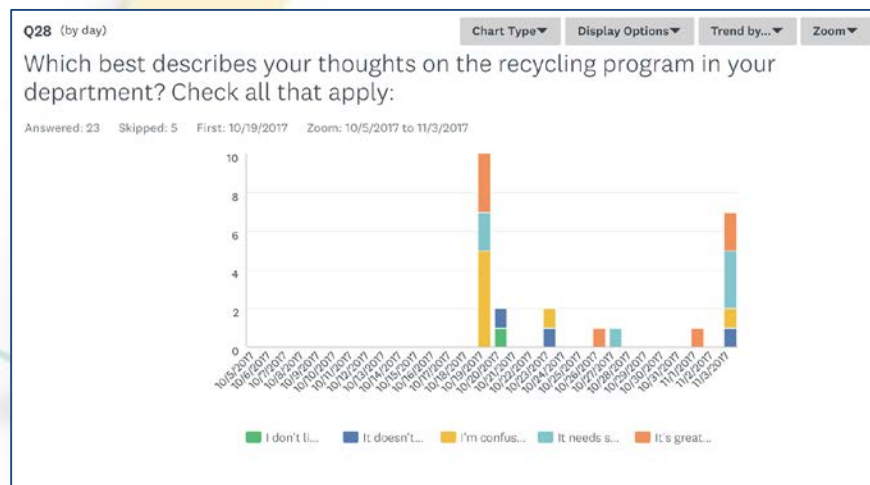
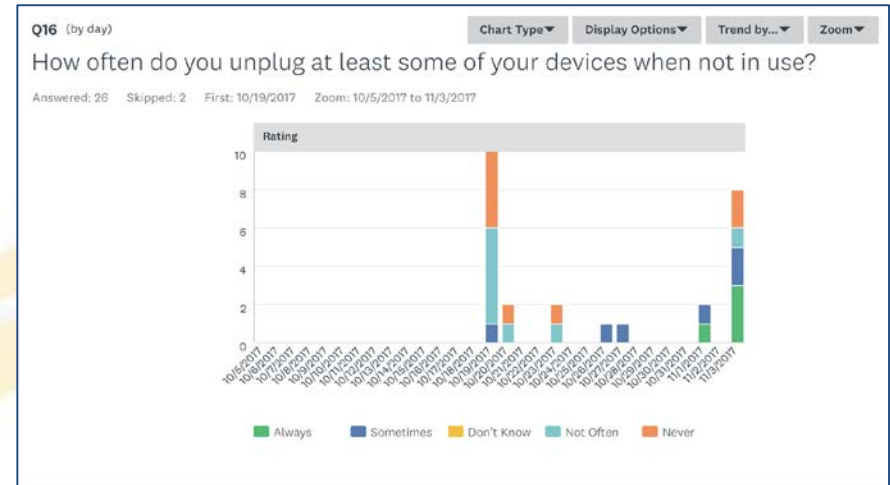
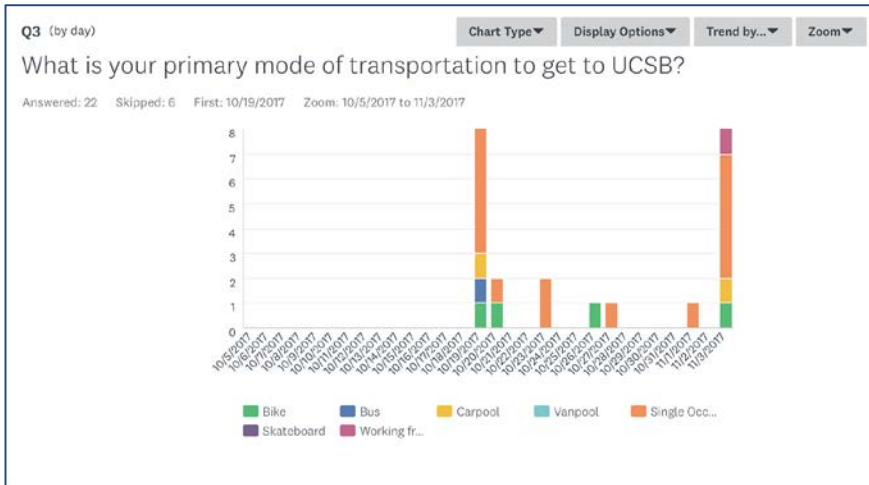
Water

Transportation



# BUILDING OCCUPANT SURVEY

# Building Occupant Survey Example



# BUILDING WALKTHROUGH

# Building Walkthrough Example

Department Walk-Through/Energy Audit Assessment															
Updated Summer 2014															
Department:		Theater and Dance													
Date of Assessment:		8/31/2017													
Assessor(s):		Andrew Lee, Katie Maynard, Ryan Malicdem													
Room Number	Type of Room	# of stations	Light Reading (Ambient)	Light Reading (at desk)	Task Lamps	Daylight	Light switch reminders	Personal heaters or fans? E-star or not?	Thermostat present? Working?	Fridges?	Comfort level in room	Recycling Infrastructure (landfill to recycling ratio)	Recycling signs	Cleaning Products	Other Comments
	Hatlen Theater	Booth	2			No	No	No		No		2 trash 1 recycling	No	Lysol wipes for headsets	Projector, Light control, 7 older lights, motion detector
2609	Office	2			2	Yes	No	No		No		1 trash 0 recycling	No		Honeywell Fan, Printer, old candescent bulbs can be replaced
2608	Storage					Slight	No	No				0 trash 0 recycling	No		See if we can get filing cabinets (Caucho Roundup), motion sensors
1201						No	No	No		No		1 trash 0 recycling	No		4 LED - rest incandescent, flashing lightbulbs, different colors, 1 burnt out light
Backstage						No	No	No		No		3 trash 1 recycling	No		"Ghost lights"
1302	Basement					No	No	No		No		0 trash 0 recycling	No		Door jammed, asbestos, 32 watt GE, 8 lights 4 fixtures
1301	Laundry					No	No	No		No		0 trash 0 recycling	No	Febreeze, Chlorox, 409	ers, 2 dryers (GE ENERGYSTAR), regulatory water load on start/stop comp
1113	Design Shop	6				No	No	No		Mini Fridge Cold in winter		3 trash 1 recycling	No	EZ Off	8 domestic sewing machines, hemmer, recycling scraps, paints, dyes,
306	Costume Storage					No	No	No		No		0 trash 0 recycling	No		80% humidity but want 50% humidity, dehumidifier
2301	Dressing Room					No	No	No		No		2 trash 0 recycling	No		replacing LED lights, bathroom out of commission due to asbestos
2305	Dressing Room					No	No	No		No		2 trash 0 recycling	No		
2307	Wig Room					No	No	No		No		2 trash 0 recycling	no		
2309	Hat Room					No	No	No		No		0 trash 0 recycling	no		Separate lights

**DEVELOP  
RECOMMENDATIONS  
& FINAL  
PRESENTATION**

**Model Programs**

**PACES  
Green  
Office  
Checklist**

**UCSB Departmental  
Staff  
Recommendations**

# ASSESSMENT & CERTIFICATION PROCESS



PACES Office Checklist Summary				
Area	Points Possible	Points Recieved	Points Applicable	
E. Energy & Atmosphere	15	1		
C. Communication & Training	12	2		
Q. Indoor Environmental Air Quality	10	2		
F. Food Systems	6	2		
R. & P. Materials & Resources	28	3		
T. Transportation	12	3		
W. Water	5	0		
Extra Points		0		
<b>Total</b>	<b>88</b>	<b>13</b>		
			<b>Percentage</b>	<b>Ranking</b>
			1%	<b>Certified</b>
			25%	<b>Bronze</b>
			50%	<b>Silver</b>
			75%	<b>Gold</b>

**SUSTAINABLE  
RECOMMENDATIONS  
FOR THEATER AND  
DANCE PROGRAMS**



# Main Recommendations

- Partner with other theater organizations to reuse sets, props, and costumes
- Utilize modularized set pieces where applicable that can be reused
- Strategic sourcing for lumber (accessing FSC wood)



# Main Recommendations (Cont.)



- Purchase costume supplies (fabrics, buttons, trimmings, etc.) from reuse stores
- Replace various chemicals and paints with Green Seal certified products
- Consider using Tung Oil or other low VOC finishes



# Main Recommendations (Cont.)


- Set up a costumes and makeup recycling program
- Utilize tablets for electronic scripts, if not possible, source 100% post-consumer waste paper

**1. Create a garment-collecting bin.**

Use a cardboard box, laundry bag, or waste bin with appropriate signage. Examples of signage include "Garment Collecting Bin" or "Fabric, Linens, and Costume Recycling Bin."

Let your Department know about the new protocol by forwarding these instructions to appropriate staff.

Make sure to have a list of materials that can be put into the bin next to your garment-collecting bin. Fabric scraps cannot be donated to H&M and should be collected in a separate bin.




**2. Collect garments, clothing, costumes, fabrics and linens.**

H&M collects all garments and fabrics from any brand and in any condition. Repeat garments, old socks, discarded fabrics, nets from buttons and zippers are recycled.

Please make sure to fill your garments and fabrics from any brand and in any condition. Repeat garments, old socks, discarded fabrics, nets from buttons, and zippers are recycled.

Please make sure to fill your garment-collecting bin before taking garments to your local H&M in order to reduce your transportation costs and greenhouse gas emissions.




**3. Leave your bag of unwanted garments are your local H&M store or place inside garment collecting bin.**

Reverse logistics are then used to bring the garments to our warehouses and storage points. Then, our partner 1 Collect will collect and transfer the garments to its nearest sorting plant. The nearest H&M is located on State Street and is 9.7 miles from UCSB.

Address: 827-833 State Street, Santa Barbara CA 93102

Hours: Mon 10AM-8PM  
Tue 10AM-10PM  
Sun 12 AM-8 PM


Phone: (855) 466-7467



**4. Collect your 15% coupon that you can use your next purchase.**

For each bag of textiles you bring to the store, you will receive a voucher with a discount for your next H&M purchase. You will receive a 15% off coupon upon 1 donation of 1 bag of garments. A total of 2 coupons will be given to you per visit.

Use your coupon to shop from H&M's Conscious Collection, and purchase jeans made 100% recycled fibers from donated garments.



# RESULTS

- ✓ Developed a 20 page report on process and findings
- ✓ Developed recommendations to increase sustainability and decrease waste in theater and dance programs
- ✓ Created a sustainable paints and chemicals recommendations and Guide
- ✓ Developed a costumes, linens, and makeup recycling guide
- ✓ Created an efficient washer and dryer guide
- ✓ Drafted grant proposals for LED fixtures in rehearsal spaces and energy efficient laundry appliances

# LESSONS LEARNED

Pursue grants for additional funding

Each program will be different and have various needs

Occasionally environmentally-friendly options are unavailable due to limitations in aspects such as color or brightness

Communication and collaboration are key to help reduce materials and waste