Climate and Sustainability Initiatives at UC Medical Centers

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Office of the President
Overview

• Why Sustainability at UC?
• UC Sustainability Policy
• Energy and Climate
• Food and Waste
• UCSF Profile
• Awards and Recognition
University of California by the numbers

- 10 campuses
- 5 med centers
- 235,000 students
- 185,000 employees
- $21 billion annual budget
Why Sustainability at UC?

“We taught [sustainability] to students, and a remarkable thing happened. The students bought it, understood it, and were sufficiently energized by it that they came back to us and said, ‘Well, if you believe what you teach, why aren’t you practicing what you teach?’… Students came back and said, ‘You’ve got us committed, now we want you committed.’ And we went through a full change of heart and belief.’

UC President Emeritus, Robert Dynes, August 2007
# UC Sustainable Practices Policy

## Policy Areas & Adoption

<table>
<thead>
<tr>
<th>Year</th>
<th>Area</th>
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<tbody>
<tr>
<td>2004</td>
<td>Green Building, Green Energy</td>
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<tr>
<td>2006</td>
<td>Climate Protection, Sustainable Transportation</td>
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<td>2007</td>
<td>Sustainable Operations, Recycling &amp; Waste Management, Environmentally Preferable Purchasing</td>
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<td>2009</td>
<td>Sustainable Food Service</td>
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<tr>
<td>2013</td>
<td>Sustainable Water Systems</td>
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<td>Policy Section</td>
<td>Goals</td>
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<tr>
<td>Green Building</td>
<td>LEED Silver certification</td>
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<tr>
<td></td>
<td>20% beyond energy code</td>
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<tr>
<td>Clean Energy</td>
<td>10% reduction by 2014</td>
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<tr>
<td></td>
<td>10 MW of onsite renewables</td>
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<tr>
<td>Sustainable Transportation</td>
<td>Each campus set GHG goals</td>
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<tr>
<td>Climate Protection</td>
<td>CAP within 2 years</td>
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<td>25% reduction by 2014</td>
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<td></td>
<td>50% reduction by 2020</td>
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<tr>
<td></td>
<td>Climate Neutrality ASAP</td>
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<tr>
<td>Sustainable Operations</td>
<td>Certify 1 LEED-EBOM project per campus</td>
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<td></td>
<td>Certify campus-wide credits</td>
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<tr>
<td>Waste Reduction</td>
<td>50% diversion by 2008</td>
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<td></td>
<td>75% diversion by 2012</td>
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<tr>
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<td>Zero Waste by 2020</td>
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<tr>
<td>Environmentally Preferable Purchasing</td>
<td>Energy Star</td>
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<td></td>
<td>EPEAT Silver</td>
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<td></td>
<td>E-Steward certified recyclers</td>
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<tr>
<td>Sustainable Food Service</td>
<td>20% sustainable food by 2020</td>
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<td></td>
<td>Green business certification for facilities</td>
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<tr>
<td>Sustainable Water Systems</td>
<td>Water Action Plan</td>
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<td>20% reduction by 2020</td>
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</table>
## Before Policy vs. After Policy

<table>
<thead>
<tr>
<th>METRICS</th>
<th>METRICS</th>
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<tbody>
<tr>
<td>0% Renewable Energy</td>
<td>15% overnight; then 20%</td>
</tr>
<tr>
<td>1 LEED certification</td>
<td>124 LEED certifications</td>
</tr>
<tr>
<td>Beg for $$ for energy efficiency</td>
<td>Regents approved $240 million energy efficiency program; <em>saved</em> $91 million</td>
</tr>
<tr>
<td>150 kW of solar PV</td>
<td>11 MW of solar PV</td>
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### Institutional Change

<table>
<thead>
<tr>
<th>Institutional Change</th>
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<tbody>
<tr>
<td>No discussion of GHGs</td>
<td>ACUPCC Founding Signatories</td>
</tr>
<tr>
<td>No sustainability language in purchasing contracts</td>
<td>All suppliers report quarterly on sustainability performance</td>
</tr>
<tr>
<td>1 sustainability FTE</td>
<td>31 sustainability FTEs</td>
</tr>
</tbody>
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Cumulative LEED Certifications

- Certified
- Silver
- Gold
- Platinum
Cost Avoidance
Through Energy Efficiency

Annual Avoided Costs (millions of dollars) from all projects, net of debt service

Cumulative Avoided Costs (millions of dollars), net of debt service
Annual Energy Savings
Due to Energy Efficiency Projects from 2009 to 2012

Total from Med Centers: 120,000 MMBTU
Equivalent to the annual energy use of 2000 households
2011 Greenhouse Gas Emissions as % of 2014 Policy Goal

Policy Goals Beyond 2014:
• Reduce greenhouse gas emissions to year 1990 levels by 2020
• Achieve climate neutrality as soon as possible
Climate Impact of UC Medical Centers

• > 20% of UC’s GHG emissions
• < 10% of UC’s energy efficiency projects
• As high as 34% of emissions for an individual campus
• Only two campuses calculate Med Center emissions separately
Waste Reduction Achievements at UC Med Centers in 2012

- Reprocessing single-use medical devices (4 of 5)
  - $670,000 saved at just one Med Center;
- In-patient room recycling (UCSF)
- Composting 90 percent of all patient and retail food waste (UCSF)
- Piloting the transition from disposable to reusable isolation gowns: estimated to save 35% of costs (UCLA)
Sustainable Foodservice: Food Procurement

• % of Food Spend on Sustainable Food:
  – > 10% at 3 of 5 Med Centers
  – UCSF already achieved 2020 goal of 20%

• Local:
  – 60% of UCLA’s produce;
  – 40% of UCSF’s produce spend is local or organic

• Sustainable seafood purchasing program (UCI)

• All baby food is organic (UCSF)

• Promote Meatless Mondays (UCLA, UCSF)
Whereas:

- Eighty percent of antibiotics sold in the United States are used for animal agriculture, primarily for non-therapeutic purposes;
- Antibiotic resistance is increasing across the country;
- There is a growing body of research that links antibiotic resistance to the overuse of antibiotics in animal agriculture;
- More than 300 organizations, including the American Medical Association, American Public Health Association, and Health Care Without Harm, have advocated ending the non-therapeutic use of medically important antibiotics as feed additives;
- Non-therapeutic use of antibiotics in livestock was banned in Sweden in 1980s, Denmark in the 1990s, and in the rest European Union in 2006, but attempts to ban this practice in the US have been thwarted by factory farming and pharmaceutical industries;
- Several hospitals and school systems across the country are already committing to procuring meat raised without non-therapeutic antibiotics;
Therefore, the UCSF Academic Senate

- Calls on UCSF food services to phase out of all procurement of meat produced with the use of non-therapeutic antibiotics.
- Encourages the entire UC system, including all of the UC medical and academic foodservice facilities, to develop a timeline for a similar phase out.
- Urges UCSF students, faculty and staff and the larger community to reduce or eliminate their own purchases of meat raised with non-therapeutic antibiotics.
- Urges UCSF students, faculty and staff to become familiar with the significant risks imposed by the non-therapeutic use of antibiotics in agriculture and to help educate the public and decision makers regarding the importance of reserving antibiotics for therapeutic use.
Sustainable Foodservice: Operations

• > 85% of cafeteria and in-patient waste is diverted from landfill (UCSF)

• Discounts for beverages served in reusable mugs (UCI and UCLA)

• Purchase only Energy Star appliances for foodservice operation (UCI and UCSF)

• All napkins made out of 100% recycled paper (UCI)

• All pre- and post-consumer patient food waste is composted (UCLA)

• 100% compostable containers for patient and retail food (UCSF)
UC Medical Center
Awards and Distinctions

- 4 of 5 are member of Practice Greenhealth
- 4 of 5 have joined Healthy Hospitals Initiative
- 3 received PGH’s Partner for Change Award
- Exemplary Food Service Professional Award
- 2nd place Food-Health-Climate Award from Healthy Food in Health Care (UCLA)
What State Government Can Do to Help

• Support/Require state staff to attend energy efficiency technology trainings
• Encourage other hospitals to adopt sustainability principles?
• Encourage CMS to include sustainability into its accreditation processes?
Questions?

www.universityofcalifornia.edu/sustainability

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