

UC San Diego

SUSTAINABLE BUILDINGS POLICY & GUIDELINES JANUARY 8, 2020

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UC SUSTAINABILITY PRACTICES POLICIES

- 1,158-acres: 68% developed, over 630 buildings totaling 15.7 million gross square feet (GSF) with another 3.3 million GSF under construction or approved
- Fall 2018: 37,887 students enrolled
- By 2035-2036:
 - 42,400 students
 - 65,600 students, faculty and staff
 - 27,886,300 GSF
 - 26,000 residential beds



UC SUSTAINABILITY PRACTICES POLICIES



Carbon Neutral in buildings and fleet services by 2025.



Zero Waste beyond 2020 via waste reduction, recycling and reuse.



Increase % spend on **environmentally & social responsibly** purchased products.



Reducing water consumption by 36% by 2025.

UC San Diego Sustainability Goals



20% spent on **sustainable food** by 2020.



Clean Energy purchased or generated for campus operations.



LEED Silver or better for all new construction. **Outperform Title 24 Code** by 20%



Alternative Transportation prioritized by the campus community.

GREEN BUILDINGS

- Over 30 LEED buildings, with most new construction going Gold or above
- Energy performance targets by building type
- Investments in energy efficiency
- Class for students through Urban Studies and Planning



GOING FORWARD

- Sustainable Buildings Policy that includes **environmental and human health and wellness**
- Guidance to help **pick the right design and build teams**
- Sustainable Buildings Guidelines with **training for key staff**
- Sustainability incorporation into **contracts and leases**
- Metrics to **measure progress**
- **Student learning opportunities**
- **Stakeholder engagement for periodic updates**



WHO IS INVOLVED

Athletics & Recreation

Healthy Buildings

Sustainability

Campus Planning

Health System

Transportation

Capital Program
Management

Housing, Dining &
Hospitality

UC Office of the President

University Centers

Design & Development
Services

Integrated Procure-to-
Pay Solutions

Urban Studies & Planning

Environment, Health &
Safety

Real Estate

US Green Building Council
Students

Facilities Management

Scripps Institution
of Oceanography

VC Resource Management
& Planning

WORKING GROUP: POLICY AND STANDARDS

Create environmental and health standards for new construction and major renovations that ensure our buildings support a sustainable campus community.

Recommendations

- LEED Gold or better for new construction
- Pilot new rating systems (WELL, Fitwel, Living Building Challenge, TRUE, ParkSmart, etc.)
- LEED ID+C for major renovation projects >\$5M
- Tiered requirements for projects <\$5M

Objectives & Goals

- Align with UC sustainability goals
- Meet policy requirements
- Be financially responsible
- Integrate environmental and human health and wellness
- Focus on student learning

WORKING GROUP: METRICS AND LIFECYCLE COST ANALYSIS

Create metrics to measure progress towards meeting policy goals.

Recommendations

- Build upon existing energy, water and waste metrics
- Develop feedback for continuous improvement
- Add new metrics like:
 - Pounds of waste per square foot of building space
 - Water use intensity by building type (gallons of water per square foot)
 - Operation and maintenance costs per square foot by building type
 - Building occupant satisfaction
 - Space utilization (% occupancy/productivity)

Objectives & Goals

- Align with UC sustainability goals
- Set appropriate and feasible metrics
- Integrate with existing metrics and reporting
- Determine a common tool to use for life cycle cost analysis across projects

WORKING GROUP: REAL ESTATE

Incorporate sustainability requirements into real estate transactions (leases, public-private partnerships, etc.)

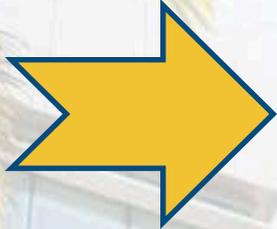
Recommendations

- Sustainability readiness questionnaire completed early in Real Estate negotiations to create/provide:
 - Awareness
 - Alignment
 - Assistance
- Participate in UC Green Building Working Group and system-wide efforts to extend sustainability goals and policy requirements to real estate projects

Objectives & Goals

- Provide guidance and support to tenants, vendors, developers to meet UCOP mandated goals in the following areas: green building, clean energy, transportation, climate protection, sustainable operations, waste reduction and recycling, sustainable procurement, sustainable foodservice, and sustainable water systems.

BENEFITS TO THE COMMUNITY

- Guidance for design and build teams, vendors and leasees, P3 teams, etc.
 - Training for staff, faculty and students on rating systems
 - Improved data for commissioning, operations and maintenance, and future project designs
 - Learning opportunities for students ("living laboratory" and internships)
 - Building-level information for class projects and research
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- ✓ Promotion of faculty, staff and student health and productivity
 - ✓ Reduced environmental footprint
 - ✓ Long-term cost savings
 - ✓ Hands-on learning for everyone

NEXT STEP: DEVELOP GUIDELINES



Develop a **UC San Diego Sustainability Implementation Guide** for:

- New Buildings
 - Energy
 - Water
 - Materials
- Minor and Major Renovations
 - Operations and Maintenance
 - Zero Waste
 - Real Estate Transactions
 - Metrics – Measurement and Verification
 - Life Cycle Cost Analysis

STAKEHOLDER FEEDBACK

- What sustainable building aspects are valuable to your department (e.g., environment and human health)?
- What do you think should be incorporated into the revised UC San Diego Sustainable Buildings policy and new guidelines?
- How do you want to get information about how the new policy and guidelines are working (i.e., dashboards, annual reports, presentations, videos, etc.)?
- What groups on campus should weigh in on these changes? What is the best way to reach them?
- Are these types of outreach valuable to you? If not, what type of outreach and engagement do you think is most valuable?

email suggestions to: sustain@ucsd.edu

HOW YOU CAN GET INVOLVED

- Email any of the core team
- Provide feedback on the forthcoming policy through stakeholder committees, associations, etc.

Stay tuned for:

- Virtual town hall at sustain.ucsd.edu
- Training for staff involved in building design, construction, operations and maintenance



**QUESTIONS?
SUSTAIN@UCSD.EDU**

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