**Carbon Neutrality Initiative – carbon neutral by 2025**

In November 2013, University of California (UC) President Janet Napolitano announced the Carbon Neutrality Initiative, which commits the UC system to emitting net-zero greenhouse gases from its buildings and vehicle fleet by 2025. To achieve carbon neutrality by 2025, UC will need to take bold steps to expand its energy efficiency efforts and dramatically increase its use of energy from renewable sources. To this end UC’s Office of the President (UCOP) is developing centralized strategies to meet this goal across the UC system focusing on:

- Developing wholesale **electricity** options that will offer more carbon-free electricity than current utilities provide to some campuses.
- **Biogas** acquisition and development to make available carbon-free biogas to offset campus use of natural gas at comparable pricing.
- Continued and accelerated **energy efficiency** measures through the strategic energy partnership.

Achieving carbon neutrality in the next decade is aspirational – a goal that will require infrastructure investments, new resources, and inclusive and reliable partnerships between the campuses, UCOP, and other stakeholders.

**Carbon Neutrality - What does it mean for Berkeley?**

To have net-zero carbon emissions from building energy and fleet vehicle use by the year 2025, Berkeley’s emissions will need to be reduced by about 80% or 115,000 metric tons from current levels. While Berkeley will be looking to the UCOP programs to address the challenges associated with making the reductions needed to meet carbon neutrality, Berkeley’s Cal Climate Action Partnership (CalCAP) will be focusing these campus **carbon reduction strategies**:

1. Continuing **energy efficiency** projects and behavior change in campus buildings with a focus on deeper efficiency strategies in lab buildings.
2. Finding additional opportunities for constructing and renovating to maximize energy savings.
3. Installing **solar** panels at campus sites, with a focus on new buildings and those under renovation.
4. Substituting **carbon-free biogas** for natural gas use, as supply and competitive pricing becomes available.
5. Implementing a mix of small programmatic improvements to **reduce fleet fuel use** through an approach of driving less while moving to higher efficiency and zero-emission vehicles.

**“We are the University of California, and there is no reason that UC can’t lead the world in this quest, as it has in so many others.”**

— UC President Janet Napolitano
6. Continuing to look for less carbon-based electricity to procure from the utility or other providers.
7. Upgrading the campus thermal system - the campus is currently evaluating options for improved heating and cooling systems.

This strategy continues Berkeley’s practice of cost-effective investment in campus first, taking advantage of available opportunities as they arise to accelerate emissions reductions, and to use options such as renewable energy certificates as a last measure.

**Carbon Neutrality Engagement**

While 2025 carbon neutrality relates to the reduction of greenhouse gas emissions from building and fleet operations, the goal also intends to engage, educate, and inspire innovation in climate and energy.

President Napolitano has formed a Global Climate Leadership Council of leading experts to provide guidance on the best practices, policies, and technology to achieve carbon neutrality and advancing teaching and research in climate change and sustainability. The Council is implementing projects focused on student, staff and faculty engagement, applied research, curriculum and academic competencies, investment strategies, and more. Berkeley played a key role in several of these recent initiatives including the Cool Campus Challenge and the Bending the Curve report. Berkeley is also poised to be a leader in this effort with its renowned faculty and research institutions developing renewable and sustainable energy sources, advancing new energy demand technologies, exploring the complex implications of climate change, and formulating policy responses.

Berkeley will continue its support for undergraduate and graduate students’ creative initiatives and research to address climate change. This include building on programs like the student-run Berkeley Energy Resources Collaborative that hosts an annual energy symposium and spur more fellowships like the Cal Energy Corp that sends undergraduates worldwide to develop sustainable energy and climate solutions.

**Carbon Footprint - scope 3 emissions**

Berkeley recognizes that our carbon footprint extends beyond building and fleet energy use. The campus will continue to take action to reduce the impacts of transportation, waste, water and other scope 3 related emissions. Berkeley will also work to advance its evaluation and reporting of the climate lifecycle impacts of our product and service activities.

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2. [http://vcresearch.berkeley.edu/energy](http://vcresearch.berkeley.edu/energy)