

Cal Climate Action Partnership – CalCAP

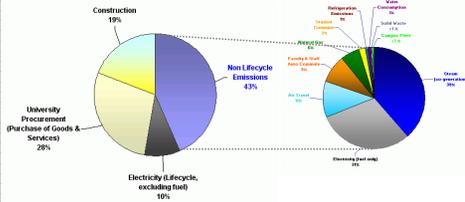
Integrating Campus Sustainability, Climate Research, and Education

CalCAP is a collaboration of faculty, administration, staff and students to reduce greenhouse gas emissions at UC Berkeley, and to enable our campus to –

- Demonstrate institutional commitment
- Engage academic departments
- Leverage academic research
- Foster local community development
- Inspire individual action

GHG Inventory for UC Berkeley Campus - 2006

Emissions in 2006



Carbon Footprint

The campus carbon footprint according to lifecycle analysis is 482,000 metric tons of CO₂ equivalent. Lifecycle analysis includes greenhouse gas emissions from all stages of a product/service lifecycle, including manufacturing, transportation, etc.

UC Berkeley joined the California Climate Action Registry in October 2006. The Registry was established by California statute as a non-profit that provides guidance to organizations on voluntary reporting of greenhouse gas emissions.

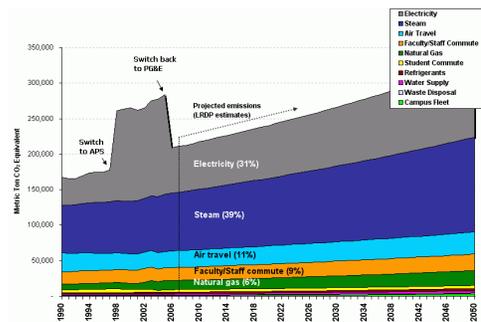
Emissions Inventory

The campus inventory is 209,000 metric tons of CO₂ equivalent, 77% of which is categorized as required reporting under California Climate Action Registry.

CalCAP Feasibility Study Goals

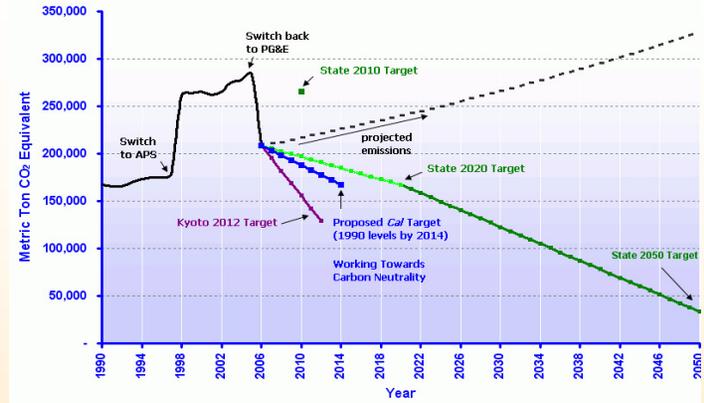
- Measure UC Berkeley's carbon footprint & emissions inventory;
- Assess the feasibility of emissions reduction targets & carbon neutrality;
- Create an institutional setting to apply research on sustainability & climate change.

Trends in Emissions (1990 -2050)



A Roadmap to Climate Neutrality

Greenhouse Gas Emissions and Targets



Meeting Targets

Emissions Reductions from Identified Projects can Achieve AB 32 and More



Energy Efficient Infrastructure

Behavior Modification & Energy Conservation

Renewable Energy & Carbon Offset Credits

Feasibility Analysis of UC Berkeley 2014 Target

- With an initial investment into infrastructure projects of \$14 million (one time capital) and additional \$1 million (annual operating) cost, the university would break even approximately on the 4th year, and start a net savings of approximately \$3 million dollars annually.
- These identified projects represent only an initial basket of the many cost-effective measures available.
- Scalable projects like Renewable Energy Credits and carbon offsets can make up the difference to achieve the desired targets.