

Climate Action Planning Financial Approaches

A Presentation to the Campus Sustainability Committee

Climate Action Planning Task Force

November 18, 2016

University Policies to Reduce GHG's

Background

- **State of California Policy** : Reduce statewide GHG emission to
 - 80% below 1990 levels by 2050 (all sources)
- **CSU Policy** : Reduce facility GHG emission to
 - 80% below 1990 levels by 2040 (scopes 1 and 2) ([Cal State](#))
- **CSUEB goal** of “Overall Carbon Neutrality...by 2030” ([CSUEB 2009 Master Plan](#))
- **The Carbon Commitment** signed by President Morishita (Jan 2015)
 - Carbon neutrality by date to be specified in the Climate Action Plan

Researched Climate Action Plans of California Universities

Cal State Chico 2011

Cal State Fullerton 2015

Cal State Long Beach 2014

Cal State Monterey Bay 2012

Cal State Northridge 2016

Cal State Pomona 2009

San Francisco State 2010

UC Berkeley 2009

UC Davis 2010

UC Irvine 2009

UC Los Angeles 2009

UC Merced 2009

UC Riverside 2010

UC San Diego 2008

UC San Francisco 2014

UC Santa Barbara 2009

UC Santa Cruz 2011

Univ. of San Francisco 2014

Overview of Financial Approaches

1. Internal funding and management of carbon mitigation on campus
2. External services to facilitate carbon abatement
3. System-wide university programs
4. Divestment

INTERNAL FUNDING AND MANAGEMENT

Cannot meet commitments without sustainable funding

Internal Approaches to Funding and Management

1. Funding Sources

- Student Tax/Green Fees
- Parking Permit Fees

2. Green Revolving Fund (GRF)

- Mechanism to make funding for efficiency projects sustainable

Student Tax/Green Fee

Students pay a Tax (aka Green Fee) based on credits or flat fee per academic term.

- Ex: Long Beach, Berkeley, UCLA, Riverside, UCSB, UCSD, Univ. of San Francisco

Recommend:

- Assess potential student support of green fee



Parking Permit Fees

Parking permit fee with money used to fund alternative transportation initiatives.

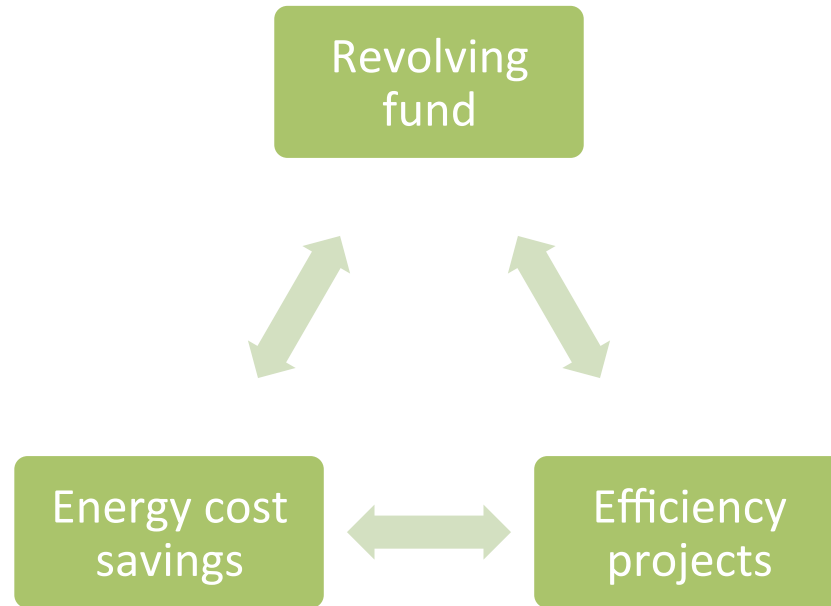
Initiative examples:

- Electric vehicle charging stations
- More frequent shuttles
- Free parking for carpooling (cross-subsidize)

Recommend: Add \$5 per quarter for alternative transportation initiatives



Green Revolving Fund for Sustainable Investments in Energy Efficiency



**A recognized best practice
by CSU Chancellor's office.**

Recommend: Adopt a Green Revolving Fund

Use External Services to Avoid Upfront Costs of Efficiency and Renewable Energy Projects

Power Purchase Agreement (PPA)

- University pays power provider for electricity

Recommend: Consider a PPA for new solar capacity on campus

Efficiency Services Agreement (ESA)

- Energy efficiency projects

Recommend: Continue to pursue for future efficiency projects

Give contract preference to service providers that offer educational opportunities for students

SYSTEM-WIDE PROGRAMS

System-Wide Utility-Supported Programs

Strategic Energy Partnership Program (SEPP)

- SEPP has the utilities provide matching funds for energy efficiency and energy conservation initiatives.

CSU/UC Energy Efficiency Program

- For peak energy and demand savings

Recommend: Continue to pursue opportunities

Other Finance Methods Mentioned

- Borrowing funds via Bond Issuance
- Clean Renewable Energy Bonds (CREBs)
- Federal/State/Foundation Grants
- Gifts & Donations

FOSSIL FUELS DIVESTMENT

Fossil Fuels Divestment

Replacing stocks, bonds, or investment funds connected to fossil fuel companies with investments that are more climate friendly.

Universities: Chico, Humboldt, SFSU, Stanford

Links:

- fossilfreeuc.org
- gofossilfree.org/usa/

Summary of Recommendations

- Adopt Green Revolving Fund
- Pursue Student Green & Parking Fees
- Continue ESA and pursue PPA
- Divest from all Fossil Fuel investments

Precedents for all of these recommendations at other CSU campuses.