



AMERICAN COLLEGE & UNIVERSITY
PRESIDENTS CLIMATE COMMITMENT



The fight against global warming will shape the 21st century.

The American College & University Presidents Climate Commitment

The Ins and Outs of the ACUPCC

Larry Eisenberg

Member

ACUPCC Technical Advisory Committee



The Challenge

- Over-reliance on fossil fuels
- Threat to human progress
- Halt growth of global warming pollution
- Must slash GHG emissions by 80%
- Transformation of economy, institutions & daily lives
- Vision & leadership of higher education



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*Reversing global warming
is a defining challenge
of the 21st century!*



The Initiative

- Led by presidents & chancellors
- High-visibility
- Joint action to leverage change
- Action plan for climate neutrality
- Research & education
- Develop societal capacity



US Higher Education



- Nearly 4100 Colleges and Universities
- Nearly 15 million students
- Annual expenditures nearly \$300 billion



Critical Role of Higher Education



- Educational, research & public service missions
- Shaping tomorrow's leaders
- Faculty, staff & student involvement
- Role models
- Research, action & demonstration projects
- Catalyze investment & develop new markets



Critical Role of Higher Education



- Demand for renewable energy
- Job creation
- Support green industries
- Innovative financing models
- Local communities engagement
- Living labs
- Incentives (scholarships, fellowships)



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ACUPCC Signatories To Date



- 514 Colleges and Universities
- As Of April 6, 2008



Latest ACUPCC Signatories



- Johnson County Community College
Terry A. Calaway, *President*
- Seattle Pacific University
Philip W. Eaton, *President*
- Gainesville State College
Martha T. Nesbitt, *President*
- University of Connecticut
Michael J. Hogan, *President*
- Tulane University (LA)
Scott Cowen, *President*
- Vermilion Community College (MN)
Joe Sertich, *President*



ACUPCC – 5 Goals



- 1) Greenhouse gas inventory
- 2) Become climate neutral
- 3) Reduce greenhouse gas
- 4) Sustainability curriculum
- 5) Action plan public



ACUPCC Commitment



- 1. Initiate the development of a comprehensive plan to achieve climate neutrality as soon as possible.
- a. Within two months of signing this document, create institutional structures to guide the development and implementation of the plan.



Greenhouse Gas Inventory



- b. Within one year of signing this document, complete a comprehensive inventory of all greenhouse gas emissions (including emissions from electricity, heating, commuting, and air travel) and update the inventory every other year thereafter.
- **Handout – ACUPCC Greenhouse Gas Inventory Brief**



Action Plan



- c. Within two years of signing this document, develop an institutional action plan for becoming climate neutral, which will include:



Action Plan Steps



- i. A target date for achieving climate neutrality as soon as possible.
- ii. Interim targets for goals and actions that will lead to climate neutrality
- iii. Actions to make climate neutrality and sustainability a part of the curriculum and other educational experience for all students.
- iv. Actions to expand research or other efforts necessary to achieve climate neutrality.
- v. Mechanisms for tracking progress on goals and actions.



Tangible Actions

- 2. Initiate two or more of the following tangible actions to reduce greenhouse gases while the more comprehensive plan is being developed.
 - a. Establish a policy that all new campus construction will be built to at least the U.S. Green Building Council's LEED Silver standard or equivalent.
 - b. Adopt an energy-efficient appliance purchasing policy requiring purchase of ENERGY STAR certified products in all areas for which such ratings exist.



Tangible Actions

- c. Establish a policy of offsetting all greenhouse gas emissions generated by air travel paid for by our institution.
- d. Encourage use of and provide access to public transportation for all faculty, staff, students and visitors at our institution.
- e. Within one year of signing this document, begin purchasing or producing at least 15% of our institution's electricity consumption from renewable sources.



Tangible Actions



- f. Establish a policy or a committee that supports climate and sustainability shareholder proposals at companies where our institution's endowment is invested.
- g. Participate in the Waste Minimization component of the national RecycleMania competition, and adopt 3 or more associated measures to reduce waste.



Action plan public



- 3. Make the action plan, inventory, and periodic progress reports publicly available by providing them to the Association for the Advancement of Sustainability in Higher Education (AASHE) for posting and dissemination.



Benefits & Opportunities



- Invite stakeholders into meaningful purpose
- Public-private partnerships
- Fulfill missions
- Lead technology race
- Operate more efficiently
- Stay ahead of regulatory curve

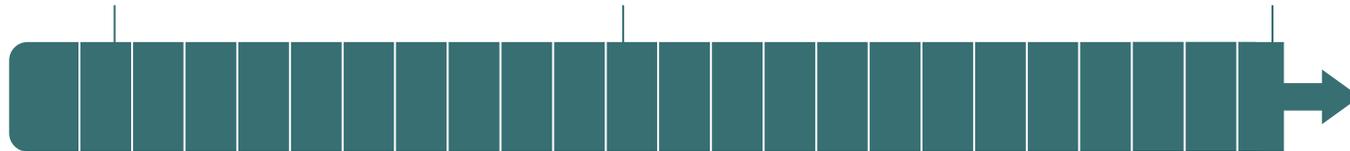


The Commitment

First 2
Months

Within
1 Year

Within
2 Years



Create institutional
structures

Complete
inventory of
emissions

Develop institutional action
plan & initiate two of seven
suggested actions



Climate Leadership in Action



- Energy independence at U Wisconsin
- Sustainability policies at U of California & California State
- LACCD green buildings
- U Oklahoma, Minnesota & Michigan State joined CCX
- Harvard's Green Loan fund
- U of Colorado-Boulder wind turbine

Testimonials



“Global warming is a defining issue of the 21st century, and higher education must be a leader in addressing global climate change through research, education, and reduction of greenhouse gas emissions.”



Amy Gutmann
President, University of Pennsylvania
ACUPCC Leadership Circle Member



Testimonials

“More than ever, universities must take leadership roles to address the grand challenges of the twenty-first century, and climate change is paramount among these.”



Michael M. Crow

President, Arizona State University

ACUPCC Leadership Circle Member



Testimonials

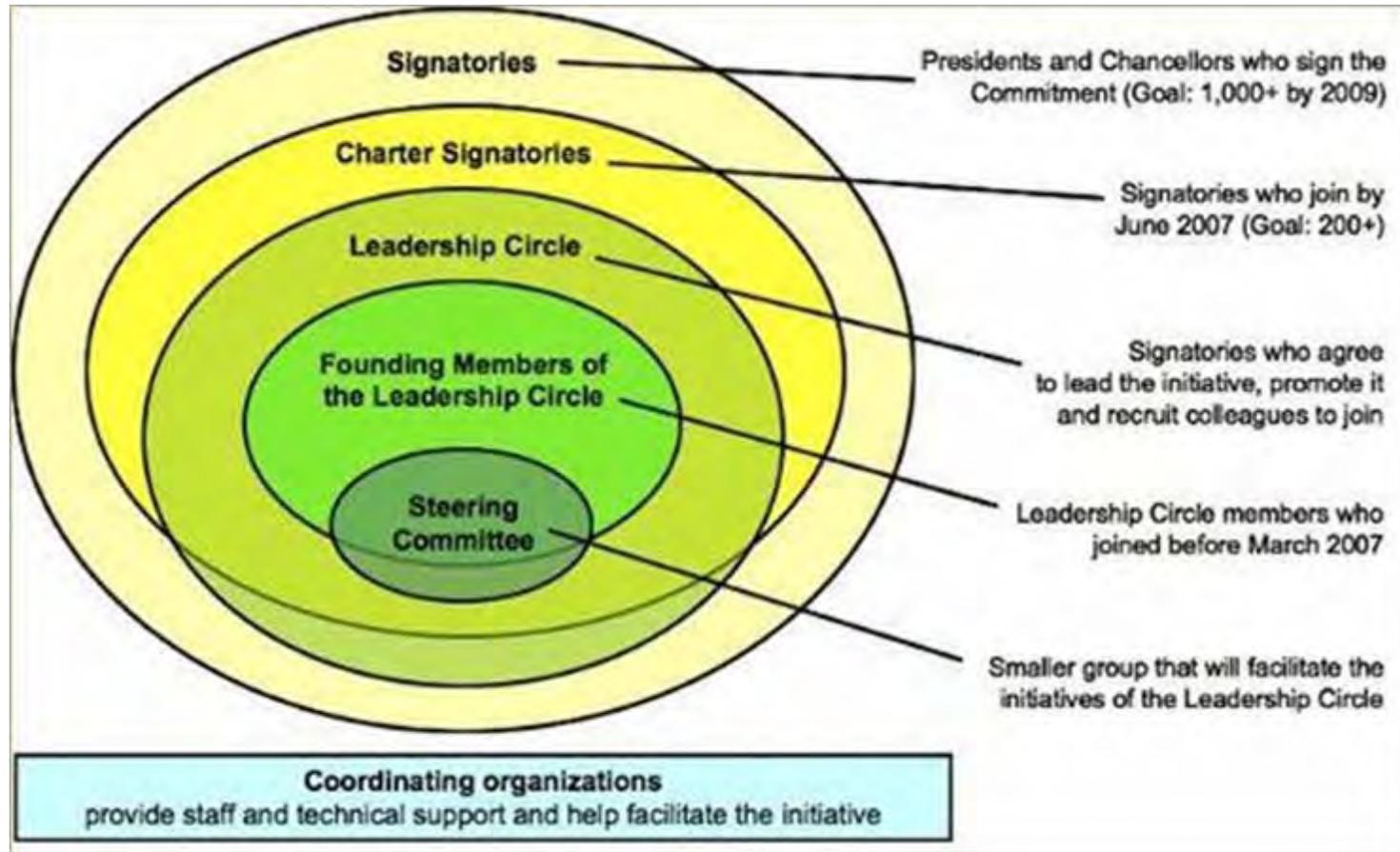
“We are in the middle of one of those rare moments when the right thing to do it also the economically smart thing to do.”



Kathleen Schatzberg
President, Cape Cod Community College
ACUPCC Leadership Circle Member



Organization





ACUPCC & Clinton Climate Initiative



- Joint Effort on Energy Conservation / Demand Management
- Energy Performance Contracts
- Pilot Program - Replicable
- Tool Kit Available Soon



Clinton Climate Initiative



- 1. Energy Service Company Signatories
- 2. Bulk Purchasing Opportunity
- 3. Readily Available Financing



Energy Service Company Signatories



- Ameresco
- Chevron
- Honeywell
- Johnson Controls
- Noresco
- Siemens
- TAC / Schneider
- Trane

- Others in Future



Bulk Purchasing Product Suppliers



- Lighting
 - Sylvania
 - Cooper
 - Acuity
 - Lemnis
 - GE Lighting
- Window Films
 - 3M
 - Bekaert
- Roofing/Insulation
 - BASF
 - Tremco
- HVAC Optimization
 - Optimum Energy
- Future Participants



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CCI Financial Partners



- Citi
- Deutsche Bank
- Hannon Armstrong
- JP Morgan Chase
- UBS



Energy Performance Contract



- Investment – Grade Energy Audit
- Identify retrofit opportunities for all energy consuming elements for maximum efficiency (lights, fans, motors, pumps, etc.)
- Install conservation features in all buildings
 - Insulation, Low-E Glass
 - White Roof, Green Roof
- State of the art and new technologies
 - Occupancy Sensors, Metering / Monitoring Systems



Performance Contract Financing



- Design – Installation – Financing By Private Sector
- 25 year payback maximum
- Uses Private Sector Funding
- Guaranteed Payback within existing utility charges
- Incentive Funds Available from
 - Public Utilities
 - Federal Government
 - Municipal Programs



Performance Contract Arithmetic

- | | |
|--|---------------------|
| • Electric / Gas Bill Before Energy Measures- Annual | • \$1,000,000 |
| • Electric / Gas Bill After Energy Measures - Annual | • \$ 800,000 |
| • Difference (Amount Available for Payback) - Annual | <hr/>
\$ 200,000 |



Financial Agreement Features



- No institutional Funding Required
- 10-20% Immediate \$ Savings
- Buyout of Agreement Possible
 - Use Capital Funds
- ACUPCC Toolkit
 - Standard Documents Available
 - RFP and Contracts on CD



Upcoming ACUPCC Initiative



- US Conference of Mayors
 - Explore relationship between colleges and universities and their host community



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