

## Cal Climate Action Partnership Update

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### October 2006 Progress

- Engaged with emissions source contacts
- Created data collection and reporting format – fleet, electricity and gas data collection underway
- (UCB) Joined California Climate Action Registry
- Collecting emissions reduction project ideas –FEEDBACK REQUESTED
- Revising emissions reduction projects evaluation criteria –FEEDBACK REQUESTED
- Designing specifications for a criteria optimization tool with ERG students – to be used by CalCAP in 2007

Student participation: Scott Zimmermann, Sam Arons, Dana Riley – thank you!

### Project Evaluation Criteria:

These criteria will be used to evaluate various mitigation projects to assess their feasibility. This is one of the most critical and interdisciplinary decisions for CalCAP. The first 3 criteria below were used to rank projects in the Campus Climate Neutral research and implementation initiative, undertaken by a group of graduate students of Environmental Science and Management at UC Santa Barbara in 2005-2006.

Quantitative	Qualitative (will require value assignments)
1. Capital cost (in \$)	9. Campus student attitude
2. Payback (in years)	10. Public attitude
3. \$/MTCO <sub>2</sub> e	11. Campus administration attitude
4. Annual GHG reduction potential (in metric tonne)	12. Project visibility
5. Project lifetime (in years)	13. Perceived negative impact
6. Annual operating cost (in \$)	
7. Social/Environmental cost avoided over life of project (in \$)	
8. Duration of implementation (in years)	

**Potential Mitigation Project - Examples (these are being verified)**

- Energy star computer settings
- Fleet - smaller vehicles
- Fleet - ethanol
- HVAC Commissioning
- HVAC Upgrade – Filters & fans
- Energy Efficiency – Fume Hoods
- Lighting Upgrades
- Reduce fleet driving – bikes
- Purchasing offsets

**Inventory Example: UCSB Total GHG Emissions for 2004**

Year 2004	Energy Consumption	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Other Chemicals	MTCO <sub>2e</sub>	Percent of Total
	MMBtu	kg	kg	kg	kg	Metric Tons	%
<b>Purchased Electricity</b>	494,729	28,895,569	242	134		28,941	<b>43.32%</b>
<b>Stationary Sources</b>	Natural Gas	304,315	16,065,201	1,604	32	16,112	<b>24.11%</b>
<b>Transport Total</b>		285,420	20,036,153	2,855	1,130	20,436	<b>30.59%</b>
University Fleet	14,184	997,696	191	66		1,022	<b>1.53%</b>
Student Commuters	114,104	8,010,565	1,603	552		8,211	<b>12.29%</b>
Faculty/Staff Commuters	62,572	4,392,815	879	302		4,503	<b>6.74%</b>
Faculty/Staff Air Travel	94,560	6,635,077	183	210		6,701	<b>10.03%</b>
<b>Solid Waste</b>	-	-	(27,439)	-		(631)	<b>-0.94%</b>
<b>Refrigeration</b>					1,151	1,956	<b>2.93%</b>
<b>Total</b>	<b>1,084,464</b>	<b>64,996,922</b>	<b>(22,738)</b>	<b>1,296</b>	<b>1,151</b>	<b>66,814</b>	