

City of Santa Barbara Greenhouse Gas Emission Reduction Strategies
 Feasible Projects - Initiate or Complete by June 30, 2009

Energy Conservation

	Project Description	CO₂ Impact
1	Install direct digital controls on all HVAC and submeter facilities to analyze energy usage patterns and purchase tools that allow for self-auditing of energy usage.	high
2	Initiate mechanical retro-commissioning process for buildings as part of the LEED-EB certification process for selected General Fund buildings .	high
3	Perform a lighting level audit resulting in a lamping reduction. Turn off all indoor lights in locked buildings in the evening and install occupancy sensors and timer switches.	high
4	Activate mandatory hibernation on workstations via centralized program controls.	high
5	Enforce the current Energy Policy: A) Remove personal heater; B) Use one coffee maker in each facility and power off when not in use; C) Reduce transformers, unplug water coolers, and common use amenities; D) Communicate with employees to improve flexibility to temperature; E) Consolidate and reduce vending machines; F) Check all break room appliances for Energy Star compliance, replace old appliances. Reduce and properly size appliances.	medium
6	Replace boiler at Motor Pool with new heating equipment.	medium
7	Activate standby mode and duplex printing on printers and copiers.	medium
8	Initiate fresh air cooling in buildings with operable windows and natural convectors near windows.	low
9	Work with departments to consolidate printers, copiers, faxes, and scanners to improve printing features for employees, and reduce energy and paper use.	low
10	Finish replacing T12 light fixtures with T8. Install T5 fixtures in appropriate locations, including Motor Pool, Library and Public Works.	low
11	Install dual technology occupancy sensors (infrared and ultrasonic), timer switches, and ensure ability to switch lights off in common areas.	low
12	Install timer switches on HVAC systems in rooms with sporadic usage (i.e. conference rooms).	low
13	Reduce the level of cooling required in the computer server room.	low
14	Require EPEAT-certified equipment for computer purchases.	low
15	Initiate consolidation of computer servers.	low
16	Require energy efficiency components for new City-assisted projects (RDA, etc.).	n/a
17	Work with Energy Partnership to access a larger percentage (City's share) of the SCE Public Goods Charge.	n/a
18	Complete pilot project on the use of metal halide and LED street lighting fixtures to improve lighting levels and reduce energy usage by 30%.	n/a

Fuel Use Reduction/Use of Alternate Fuels

	Project Description	CO₂ Impact
19	Establish department targets to reduce fuel consumption in vehicle fleet.	high
20	Send monthly fuel usage report to department staff to provide information on fuel use trends.	high
21	Develop a vehicle pool program where vehicles could be shared by departments, helping to reduce the number of older, low mileage vehicles (that are less fuel efficient) with newer vehicles.	medium
22	Replace Citywide sedans with hybrids and electric vehicles in accordance with the vehicle replacement schedule.	medium
23	Replace non-patrol Police Sedans with hybrids in accordance with the vehicle replacement schedule.	medium
24	Install tire pressure indicators on City vehicles to improve fuel efficiency.	low
25	Plan and conduct Driver Behavior Education classes with high frequency drivers to reduce fuel consumption.	low
26	Establish a vehicle purchasing policy regarding vehicle replacement goals that emphasizes efficient use of pool vehicles and the use of hybrids, fuel efficient smaller vehicles, and alternative fuel vehicles.	low
27	Initiate pilot testing with B50 biodiesel on select vehicles.	low
28	Increase the number of bikes available at City facilities to encourage employees to reduce vehicle trips for meetings and errands.	low

Renewable Energy Generation

	Project Description	CO₂ Impact
29	Reactivate hydro-electric plant on South Coast conduit to provide renewable energy for water treatment processes.	high
30	Construct Corporate Yard solar project to generate renewable energy for City facilities.	high
31	Complete power purchase agreement for installation of solar PV at the Airport parking lot and consider a premium parking charge for shaded parking.	high
32	Issue RFP to expand El Estero renewable energy project through collection of grease and additional methane generation.	high
33	Initiate installation of solar PV at the Airport car rental quick turn around facility.	high
34	Install solar thermal at Marina One restroom in place of electric heater.	medium
35	Develop a micro generation project on Stearn's Wharf or other Waterfront sites.	low

Renewable Purchases

	Project Description	CO₂ Impact
36	Determine feasibility of purchasing wind turbine(s) in an existing wind farm to provide renewable energy for City facilities.	n/a