



The Governor's Green Building Executive Order and AB 32
 Green California Goals and Accomplishments
<http://www.documents.dgs.ca.gov/dgs/pio/green/highlights.pdf>

OBJECTIVE	PROGRESS TO DATE
Benchmarking	
<p>Benchmark all occupied state facilities by 2007 (nearly 1,500 benchmarkable facilities)</p>	<ul style="list-style-type: none"> ▪ Portfolio Manager benchmarking accounts created for 100 percent of the state's facilities. ▪ Major utilities have completed database mapping and are uploading utility data on a monthly basis. DGS continues working with state agencies to resolve data issues and to assist agencies in collecting, updating and verifying benchmarking data.
Retro-Commissioning (RCx)	
<p>Retro-commission all buildings greater than 50,000 sq. ft. by June 30, 2013</p> <p>Each building re-commissioned every 5 years after initial retro-commissioning</p>	<ul style="list-style-type: none"> ▪ 43 RCx projects have been either completed or are underway. ▪ The energy efficiency measures implemented to date have a verified electricity savings of approximately 8.2 percent. Projected electricity savings for measures yet to be implemented is approximately 16.9 percent. Projected natural gas savings is 16 percent. ▪ The 13 buildings identified for RCx projects during 2008-09 are on hold due to the state's "sale/lease-back" program and the potential for federal stimulus funds for a downtown Sacramento Smart Grid initiative.
LEED - Existing Buildings (EB)	
<p>Attain LEED-EB standard for all DGS State occupied buildings over 50,000 sq. ft.</p>	<ul style="list-style-type: none"> ▪ 22 buildings LEED-EB Certification: 2 LEED-EB Platinum, 11 LEED-EB Gold, 6 LEED-EB Silver, 3 LEED-EB Cert. ▪ DGS received USGBC approval for pilot volume certification program. ▪ 60 DGS owned and/or operated buildings registered with USGBC January 2008. ▪ RFP for LEED-EB Consultant: Certification/Re-certification/Training: CTG Energetics. ▪ LEED-EB Schedule-6 buildings submitted to USGBC January 30, 2009; 3 buildings submitted on April 31, 2009; 3 buildings submitted on June 30, 2009; 4 buildings submitted on December 4, 2009; Total: 22 buildings submitted/certified by December 2009.
LEED - New Construction (NC)	
<p>Attain LEED Silver standard for all new and renovated State buildings over 10,000 sq. ft.</p> <p>Same for buildings under 10,000 sq. ft., but certification not required</p>	<ul style="list-style-type: none"> ▪ 20 buildings have been LEED-NC certified: 7-Gold, 9-Silver, 4-Certified. ▪ 238 buildings are pursuing LEED standards plus 24 buildings under 10K sq. ft. being designed to LEED standards. ▪ Implemented policy and commissioning toolkit for in-house commissioning of small buildings. ▪ The DGS and Caltrans were awarded the state's first LEED-CI (Commercial Interior) Silver award for its build-out of 17,000 square feet of 11th floor office space in the District 7 Headquarters Building, Los Angeles.
Commercial Leasing	
<p>Seek ENERGY STAR leases over 5,000 sq. ft. beginning in 2006 (for new leases) and 2008 (for existing leases)</p>	<ul style="list-style-type: none"> ▪ 100 ENERGY STAR scored leases out of 1,856. ▪ All build-to-suit leases will be LEED-NC Silver; 5 in construction, DMV Tracy attained LEED-NC Gold, May 2009; DMV Clovis attained LEED-NC Silver, May 2009; DMV Riverside attained LEED-NC Silver March 2009. ▪ 2,000+ letters sent advising lessors of ENERGY STAR preference. ▪ 1,160 additional letters/emails to general commercial market.
Solar and Other Clean On-Site Generation	
<p>Evaluate the merits of clean on-site generation for all new or renovated buildings</p>	<ul style="list-style-type: none"> ▪ 8 Solar PV projects completed under Phase I effort - 4.25 MW online. Over 15 million kilowatt hours generated and over \$300,000 saved to date. ▪ The Phase II solar PV effort resulted in the award of 16 CSU solar projects awarded for a total of 8 MW and 8 state agency solar projects for a total of 8 MW. Project implementation underway for several CSU solar projects. Project implementation for the state agency projects to begin first quarter of 2012. ▪ Procurement Division has developed a Master Services Agreement program for clean and renewable energy generation systems. RFP was issued on May 12, 2010. Bidders conference was held on June 17th ▪ Phase III solar project RFP currently under development for additional large solar PV projects at state facilities. ▪ SMUD-funded feasibility study completed for potential biomass fueled energy generation system at Folsom State Prison. Draft report was issued. CDCR to evaluate and determine implementation strategy. ▪ Stanford Mansion fuel cell construction completed, currently in start up and commissioning phase. ▪ Fuel cell RFP issued in October of 2009 to site fuel cell energy generating systems at state facilities. 6 projects currently being evaluated with best and final price submittal by July 9. Second fuel cell RFP due to be issued by June 30th. ▪ CalFire pursuing siting of potential biomass energy generation project at Parlin Forks Conservation camp. Technical feasibility study has been completed. CalFire to evaluate and determine next steps. ▪ Coordinating with CDCR to evaluate and pursue wind energy generation opportunities at several CDCR facilities with sufficient wind resources. ▪ Caltrans working with SMUD to pursue solar energy generation along the highways. Pilot project scope being developed.
Buying Green - Environmentally Preferable Purchasing	
<p>Ensure the acquisition and procurement of goods and services that have a lesser or reduced negative effect on human health and the environment when compared to alternatives that serve the same purpose</p>	<ul style="list-style-type: none"> ▪ State's mandatory "EPEAT Silver-or-better" solicitation sets the highest environmental bar in the nation for PC Goods. ▪ EPP specifications in the state's mandatory Fluorescent Lamp Contract specify increased efficiency and reduced mercury content for fluorescent lamps. ▪ California Gold Carpet Standard is the basis for the new NSF 140 Platinum national standard. ▪ The current Open Office Panel Systems solicitation sets the highest environmental standard in the nation for modular office furniture. California Prison Industry Authority is striving to meet current standard. ▪ State's current solicitation for ink and toner cartridges mandates remanufactured options that will provide significant environmental advantages at substantially lower cost. ▪ California vehicle contracts provide California Environmental Labeling, Global Warming and Smog Scores purchasing tools.



DGS Greening the Fleet

OBJECTIVE	PROGRESS TO DATE
Vehicle Approval	
<p>Make the state fleet leaner and cleaner</p>	<ul style="list-style-type: none"> ▪ Piloted new fleet acquisition methodology—from tactical (vehicle by vehicle, office by office) to strategic (department-wide); completed FY 2005-06 ▪ Currently adding more agencies. ▪ Expanding strategic planning methodology to include GHG, fuel economy, alternative fuel use and vehicle utilization; began in FY 2008-09 and is currently ongoing .OFAM and PD developed the Best Value excel template, which assists all agencies in choosing which type of vehicle to purchase. It is now available on the OFAM Web site.
Vehicle Acquisition	
<p>Acquire best value</p>	<ul style="list-style-type: none"> ▪ Introduced cutting edge vehicle technology into the state fleet, such as all electric, hybrid, and alternative fuel and fuel cell vehicles. OFAM applied for the ARRA grant in order to continue this effort by purchasing additional hybrid vehicles and installing electric charging stations; however, the grant was not successful and this project has been terminated. ▪ Disposal of the highest polluting and most fuel inefficient petroleum-fueled vehicles in the DGS fleet. ▪ Prepared the <i>State Fleet Fuel Efficiency Report</i> to the Legislature with recommendations to reduce emissions and petroleum use; completed FY 2003-04. ▪ Implemented lowest lifecycle costing procurement methodology. ▪ Implemented Ultra-Low Emission Vehicle (ULEV) minimum engine standard. ▪ Alternative fuel and hybrid vehicles currently given highest priority. ▪ Alternative fuel and hybrid vehicles mandated in the state's commercial (long-term) rental car contract; completed FY 2006-07. ▪ New well-to-wheels procurement methodology; currently under development.
Current Fuel Use	
<p>Create annual report on fuel use</p>	<ul style="list-style-type: none"> ▪ Coordinated with multiple agencies and private sector to create new report on executive branch use of transportation fuels, completed September 2008. ▪ Developing a Petroleum Reduction Plan for the state fleet to reduce petroleum consumption from 2003 levels by 10 percent by 2012 and by 20 percent by 2020.
New Fleet Asset Management System	
<p>Use good data to make professional decisions</p>	<ul style="list-style-type: none"> ▪ Conducted a major statewide inventory of the fleet and reconciled with DMV records; completed FY 2005-06. ▪ Funded the first of its kind statewide fleet asset management system; completed FY 2007-08. ▪ Developed project scope and hired data warehouse design contractor; completed FY 2007-08. ▪ Development of system testing; completed FY 2008-09. ▪ Implementation phase with data analysis and reporting capability; completed FY 2008-09. ▪ Validating data and making additions/improvements to the OFAMS; in progress.
Alternative Fuels	
<p>Reduce GHG emissions, take EPAct to next level, reduce petroleum use</p>	<ul style="list-style-type: none"> ▪ Built compressed natural gas pumps at the Sacramento and Los Angeles state garages in FY 2004-05. ▪ Issued bids for E-85 and bio-diesel fuels in FY 2007-08 and 2008-09. ▪ Installed E-85 fuel pump at Sacramento state garage; began dispensing E-85 September 2007. ▪ Collecting fleet fueling data for CEC/ARB funding of alternative fuel infrastructure; 80 percent complete. ▪ Campaign to inform departments/employees of the high priority of using alternative fuels; ongoing. ▪ Now possible to drive from Sacramento to San Diego on E85; working with the private sector to add pumps. There are currently 44 E85 stations throughout the state and more to come. ▪ DGS has received AB 118 funding from the CEC to retrofit 50 Toyota Prius hybrids with plug-in hybrid vehicle (PHEV) technology. PHEVs with GPS/Telematics to demonstrate advanced battery electric vehicle technology. These vehicles have been deployed throughout the state and are currently being monitored for their fuel efficiency and ability to meet the state's business needs ▪ The DGS was notified by the U.S. Department of Energy (DOE) on March 16th that its proposal to support the establishment of approximately 50 alternative fueling locations has been conditionally selected for negotiations leading to an award. The DGS applied for the ARRA-funded grant in partnership with Propel Fuels Inc., which will construct the fuel stations throughout California.
Coordination	
<p>Reduce redundancies, leverage effort</p>	<ul style="list-style-type: none"> ▪ Member of CEC's AB118 Advisory Committee. ▪ Working with regulatory agencies to identify alternative fuel infrastructure permitting roadblocks.