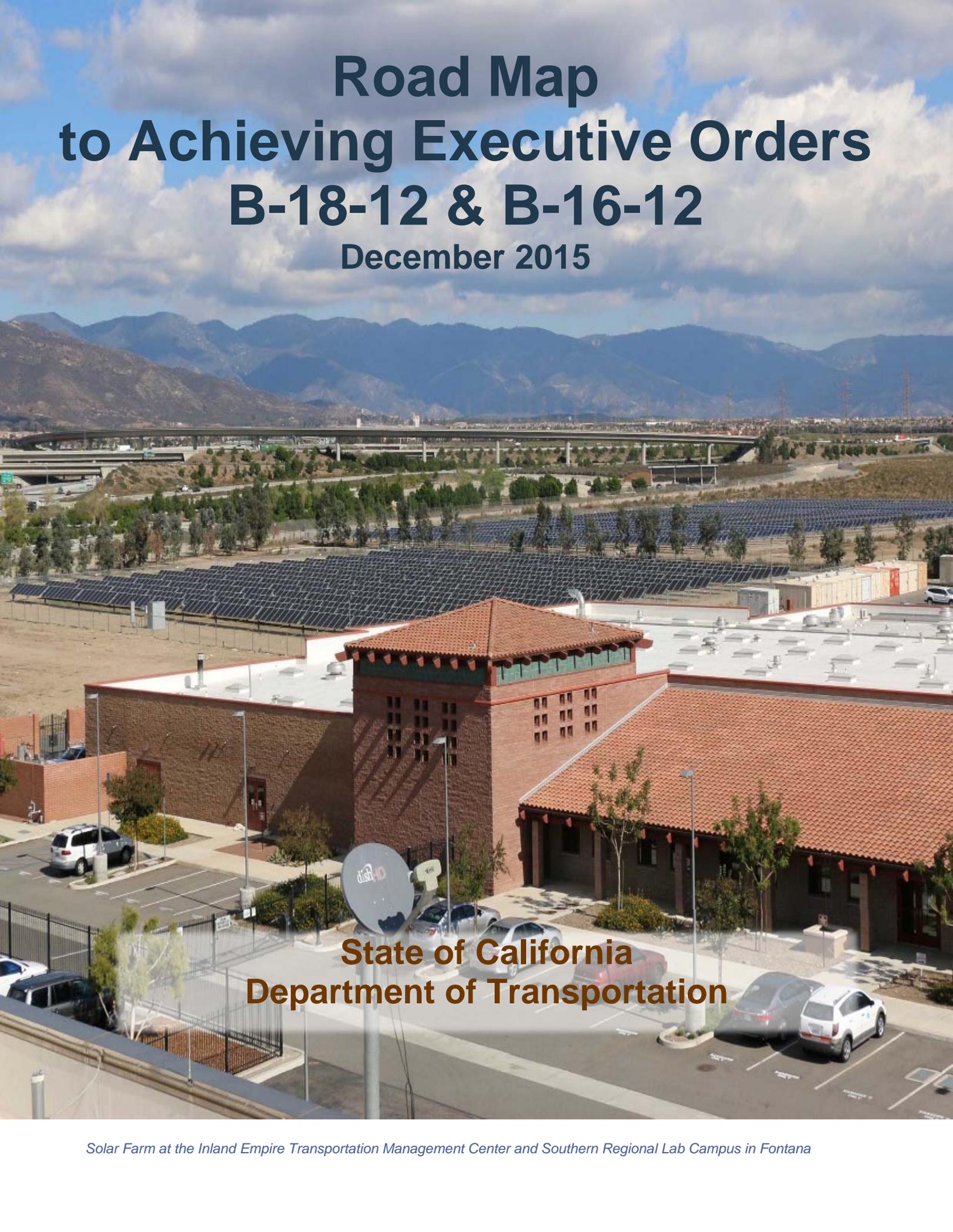


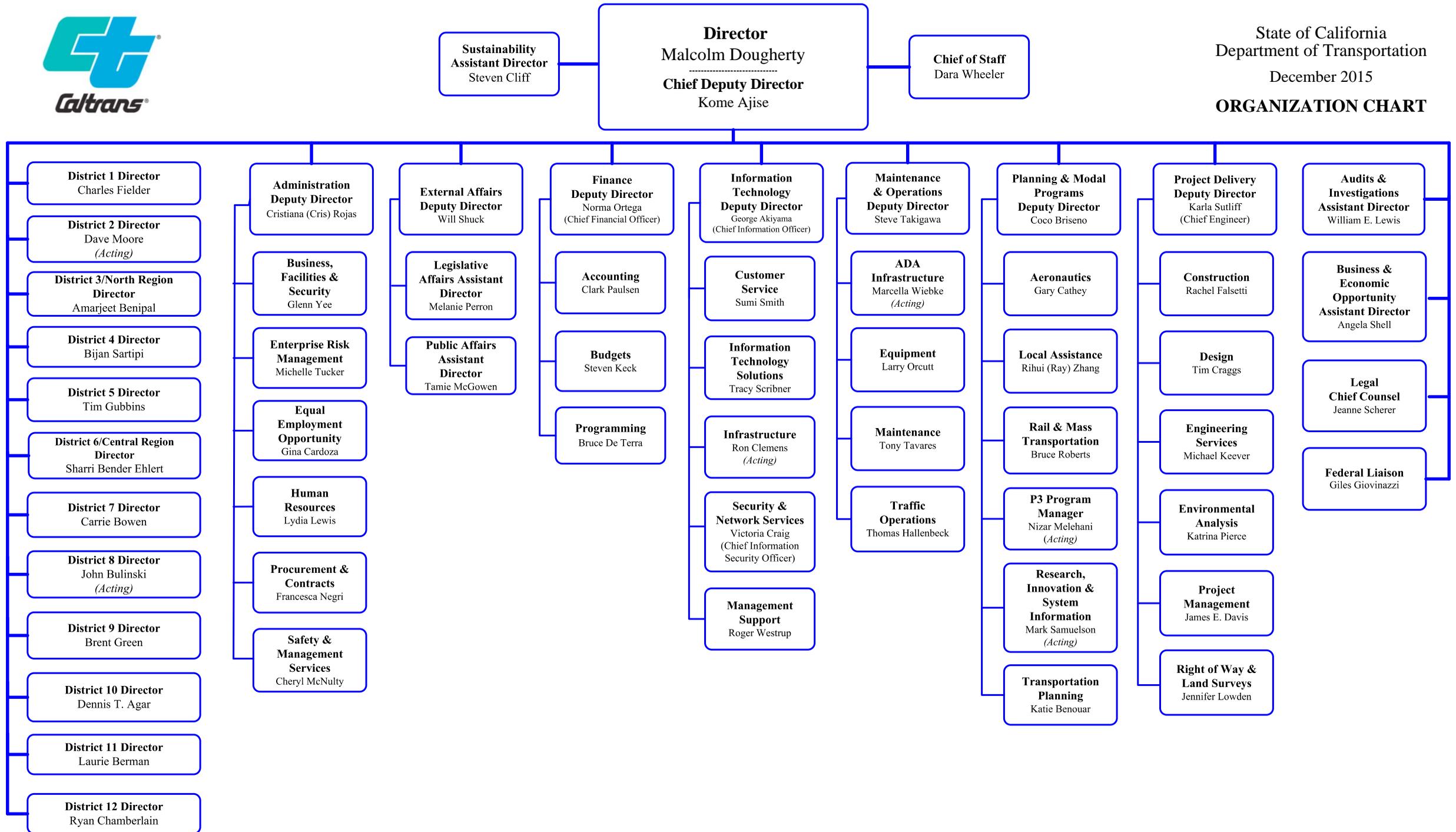
Road Map to Achieving Executive Orders B-18-12 & B-16-12

December 2015



**State of California
Department of Transportation**

Solar Farm at the Inland Empire Transportation Management Center and Southern Regional Lab Campus in Fontana



“Provide a safe, sustainable, integrated and efficient transportation system to enhance California's economy and livability.”

Caltrans Districts



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ACRONYMS

Admin	Administration Program (part of Caltrans)
ADR	Automated Demand Response
ARRA	American Recovery and Reinvestment Act
BEV	Battery electric vehicle
BRT	Bus Rapid Transit
BTA	Bicycle Transportation Account
CALGREEN	California Green Building Code (Title 24, Part 11)
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CEC	California Energy Commission
CIP	Cold in place (asphalt)
CMS	Changeable message sign
CRIS	Climate Registry Information System
DBFS	Division of Business, Facilities and Security (part of Caltrans)
DES	Division of Engineering Services (part of Caltrans)
DGS	California Department of General Services
DOE	Division of Equipment (part of Caltrans)
DOM	Division of Maintenance (part of Caltrans)
DPAC	Division of Procurement and Contracts (part of Caltrans)
DWR	California Department of Water Resources
EO	Executive Order
Cal/EPA	California Environmental Protection Agency
EPP	Environmentally Preferable Purchasing
ESCO	Energy service contractors
ESPM	Energy Star Portfolio Manager
EUI	Energy Use Intensity (kBtu/sq. ft.)
EVSE	Electric Vehicle Supply Equipment (charging equipment)
FHWA	Federal Highway Administration
Finance	Finance Program (part of Caltrans)
GHGe	Greenhouse Gas Emissions
HEV	Hybrid electric vehicle
HMA	Hot mix asphalt
HPS	High pressure sodium
HVAC	Heating, Ventilation and Air Conditioning
IEQ	Indoor Environmental Quality
IT	Division of Information Technology (part of Caltrans)
kBTU	Thousand British Thermal Units (unit of energy)
LDV	Light Duty Vehicle
LED	Light-Emitting Diode
LEED	Leadership in Energy and Environmental Design
M&O	Maintenance and Operations Program (part of Caltrans)
MM	Management Memo

MV	Mercury vapor
OBF	On-Bill Financing
PG&E	Pacific Gas and Electric
P&MP	Planning and Modal Programs (part of Caltrans)
PD	Project Delivery Program (part of Caltrans)
PHEV	Plug in hybrid electric vehicle
PPA	Power Purchase Agreement
PUE	Power Usage Effectiveness
REV	Company which provides sustainability training
RHMA	Rubberized hot mix asphalt
RFP	Request for Proposal
SAM	State Administrative Manual
SCE	Southern California Edison
SCM	State Contracting Manual
SCM	Supplementary cementitious materials
SCS	Sustainable Community Strategies
SDG&E	San Diego Gas and Electric
SFOBB	San Francisco Oakland Bay Bridge
SMP	Strategic Management Plan
SRRA	Safety Roadside Rest Area
SR2S	State Safe Routes to School
TAP	Transportation Alternatives Program
VMT	Vehicle miles travelled
TMC	Transportation Management Center
VOC	Volatile Organic Compounds
WMA	Warm mix asphalt
ZEV	Zero Emission Vehicle
ZNE	Zero Net Energy

GREEN INITIATIVES & FOCUSES

Green Initiatives:

1. **Executive Order B-18-12** and the **Green Building Action Plan** were issued by Governor Brown on April 25, 2012. They outline requirements for state agencies related to reducing environmental impacts of state operations including greenhouse gas (GHG) emissions, energy, and water use, as well as improving indoor air quality, onsite renewable energy, environmentally preferable purchasing (EPP), and developing the infrastructure for electric vehicle charging stations at state facilities. The Green Building Action Plan also established two oversight groups to ensure these measures are met.
2. **Executive Order B-16-12** pushes the state toward the integration of zero emission vehicles (ZEVs) into the mainstream. It directs the state toward establishing an infrastructure that can support increased public and private sector ZEVs. Additionally, it directs state agencies to replace at least ten percent of fleet vehicle purchases with ZEVs by 2015, and at least 25% of fleet vehicle purchases with ZEVs by 2020.
3. **Executive Order B-29-15** directs the state to reduce urban potable water use by 25 % by February 28, 2016, as compared with 2013.
4. **Executive Order B-30-15** establishes a GHG reduction target of 40% below 1990 levels by 2030.
5. **Executive Order B-32-15** orders the development of a statewide Integrated Freight Action Plan by July 2016

Green Initiative Focus Sections: (summarized in Appendix A)

1. Greenhouse Gas Emissions (GHG)
2. Energy – Zero Net Energy (ZNE)
3. Energy – Exceed Title 24 by 15%
4. Energy – Reduced Grid-Based Energy Purchases by 20% by 2018
5. Energy – Demand Response
6. Energy – Onsite Renewable Energy
7. Building Design and Construction
8. Building Commissioning (Cx)
9. Existing Buildings – LEED-EB
10. Indoor Environmental Quality (IEQ)
11. Water Efficiency
12. Electric Vehicle Charging Stations – Employee Parking
13. Electric Vehicle Charging Stations – State Owned Vehicles
14. Environmentally Preferable Purchasing (EPP)
15. Financing
16. Monitoring and Executive Oversight
17. Zero Emission Vehicle (ZEV) Fleet Purchases

EXECUTIVE SUMMARY

The California Department of Transportation's (Caltrans') 2015 Road Map (Road Map) describes the status of steps to achieve the objectives, targets, and requirements of various Governor's Executive Orders (EOs) designed to protect and enhance California's sustainability, economy, and livability. The 2015 Roadmap is extensively expanded and improved. It now ties to the new Caltrans Strategic Management Plan (SMP) and has been extended from building issues to include all Caltrans' operations. It also incorporates the new California Department of General Services (DGS) Management Memos (MM) which implement the Governor's EOs. And most critically, the Road Map includes target dates and the names of those responsible for accomplishing the actions planned.

The key EOs described in this report start with EO B-18-12, the Green Building Action Plan. EO B-18-12 incorporates green practices into building and highway system operations for energy, water, materials and purchasing efficiencies, enhances indoor and outdoor air quality, reduces greenhouse gas (GHG) emissions, and improves the health and productivity of state employees, all while saving the state money and boosting California's economy. EO B-16-12, the Zero Emission Vehicles (ZEV) Action Plan, encourages the development and success of ZEVs to protect the environment, stimulate economic growth and improve the quality of life in the state. EO B-29-15 continues the Drought State of Emergency, setting aggressive water management goals and adding water use restrictions to protect people and the environment. Governor Brown recently issued EO B-30-15, which further reduces GHG emissions by setting reduction goals for 2030, and calls for additional efforts to improve California's resiliency. EO B-32-15 orders the development of a statewide, integrated Sustainable Freight Action Plan, with a focus on transition to zero-emissions freight technology, freight efficiency improvements and increasing the competitiveness of California's freight system. This Roadmap outlines the EOs' applicable requirements and describes actions Caltrans has taken since the 2013 Roadmap report and those it will take to achieve the EO's requirements.

In March 2015, Caltrans published its SMP 2015-2020 to meet Caltrans' Mission, Vision and Goals as part of ongoing efforts to modernize operations and improve performance and accountability. The SMP includes a new Sustainability, Livability and Economy goal detailing targets for greenhouse gas and potable water reduction, among others, to support all of the EOs described above. Caltrans will achieve its mission to provide a safe, sustainable, integrated and efficient transportation system that enhances California's economy and livability with six primary programs: Aeronautics, Highway Transportation, Mass Transportation, Transportation Planning, Administration, and the Equipment Service Center. Caltrans manages more than 50,000 lane-miles of California's highway and freeway system, provides intercity rail services, permits more than 400 public-use airports and special-use hospital heliports, works with local agencies, and supports other transportation modes including aviation, rail, public transit, bicycling and walking.

In 2014, Governor Brown appointed Dr. Steven Cliff as the new Assistant Director for Sustainability, a position created to lead Caltrans' efforts to develop and implement initiatives aligned with California's sustainability goals. Dr. Cliff serves as the focal point for monitoring sustainability actions, represents Caltrans to external agencies on sustainability issues, establishes sustainability policies and ensures integration of sustainability principles in Caltrans' programs.

Caltrans' 2015 Roadmap incorporates cost-effective energy efficiency and conservation measures, and clean energy production strategies from EOs B-18-12 and B-30-15 into transportation planning, project development, design, operations, and maintenance of transportation facilities, fleets, and buildings to optimize the use of fuel supplies and energy sources to ensure efficient business operations. In addition, Caltrans promotes energy and fuel diversity through clean, low carbon fuel sources, fleet

efficiency, and strong technology policy and market mechanisms to encourage innovation and low fossil fuel consumption to reduce emissions from transportation.

Caltrans successfully initiated numerous innovative programs and projects to reduce energy use. In 2015, under a Power Purchase Agreement, Caltrans installed a 19-acre solar farm adjacent to the Inland Empire Transportation Management Center (TMC) and the Southern Regional Laboratory campus to provide 80 percent of its power, with a projected 20-year savings of \$1.5 million. Approximately 9,000 Light-Emitting Diode (LED) luminaries installed in 2014 at the Sacramento Headquarters office building will save 50 percent in lighting electrical costs. By the end of 2016, approximately 45,000 more LED's will be installed in District Offices statewide. By the end of 2017, Caltrans will also replace 80,000 high-pressure sodium roadway lights with more efficient LED lights that are 35 to 60 percent more efficient.

During one of the worst droughts in recorded state history, Governor Brown's January 2014 Drought State of Emergency directed state officials to prepare for water shortages and called for a 20 percent reduction in state agency water use. Caltrans set a goal of a 50 percent reduction in water used for irrigation and landscaping in 2014 and committed to examine all ongoing activities for further efficiencies. In April 2015 with EO B-29-15, the Governor mandated that all urban water users reduce water use by 25 percent and extended the mandate into 2016. Caltrans reduced water consumption with "smart" controller upgrades, delaying landscaping projects, streamlined water use tracking, providing employee training and implementing strategic water conservation and drought action plans for buildings and along highways. Caltrans reduced 240 million gallons of potable water by converting to recycle/non-potable for irrigation. Additionally, in April 2015, DGS reported state water use fell from 19.4 billion gallons in 2013 to 14.9 billion gallons in 2014 agencies equating to a 23 percent reduction. Caltrans accounted for more than half the water conserved by all state agencies. In 2015, Caltrans achieved a 53 percent reduction in water use, meeting Caltrans' aggressive goal. Caltrans will continue to do its part to reduce water use.

Caltrans is currently exceeding EO B-16-12 ZEV purchasing requirements with 118 plug-in fleet vehicles. To further promote the use of ZEV's, in October 2015, Caltrans issued a memo directing facility managers to encourage employees to use state-owned electric vehicle charging stations. In the future, Caltrans' Division of Equipment plans to look beyond the ZEV plan light-duty fleet requirements to incorporate heavy duty ZEV's in the fleet when available, to increase ZEV adoption statewide, and other strategies to increase the use of low-carbon fuels.

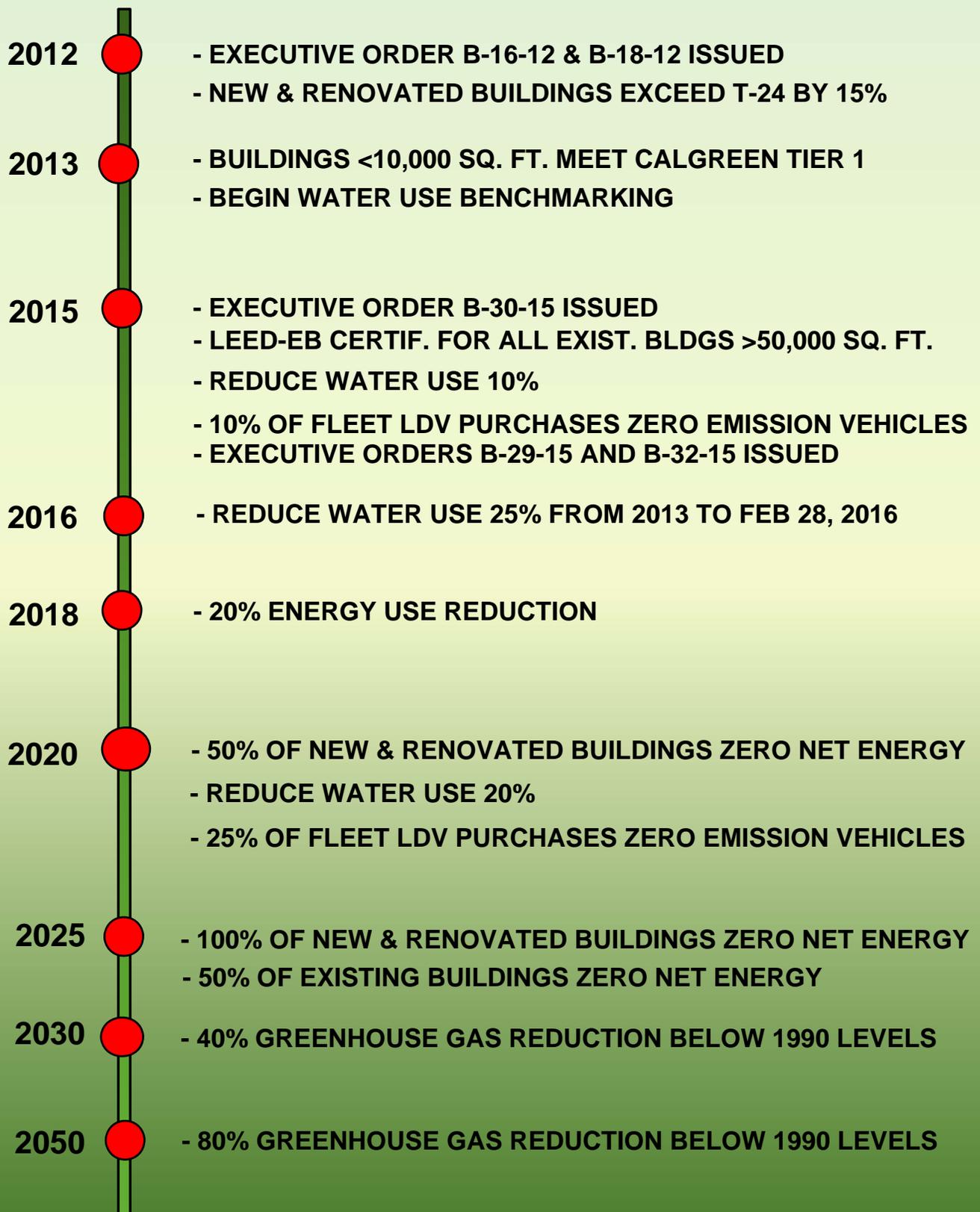
Caltrans continues work to reach the Governor's EO goals that support climate change mandates, renewable power statutes, a "green power" electric grid, energy conservation objectives, Leadership in Energy and Environmental Design (LEED) standards, water conservation mandates, zero emissions vehicles mandates, and improved freight efficiency. Caltrans remains committed to making progress toward achieving these targets and objectives.

For more information or questions, please contact Steven Cliff, Ph.D., Assistant Director for Sustainability at (916) 651-6458 or staff members Desiree Fox, Roadmap Program Coordinator at (916) 654-3395 or Melissa Thompson, Sustainability Program Manager at (916) 869-5738.



MALCOLM DOUGHERTY
Director

EXECUTIVE ORDER MILESTONES & TIMELINE



		Date Status Completed /or Steps Anticipated	Caltrans Lead																								
1. GREENHOUSE GAS EMISSIONS (GHG) (including Operations and System for Buildings and Highways)																											
Target & Timeline	<p>Reduce entity-wide greenhouse gas emissions by 10% by 2015 and 20% by 2020, measured against 2010 baseline. Report baseline and reduction needed to meet both targets.</p> <ol style="list-style-type: none"> 2015--10% reduction from 2010 baseline. 2020--20% reduction from 2010 baseline. By April 1st each year prepare annual inventory of GHG emissions generated in course of business and enter into Climate Registry's CRIS database. EO B-16-12 orders a reduction of greenhouse gas emissions from the transportation sector equaling 80 percent less than 1990 levels by 2050. EO B-30-15 establishes a new interim statewide greenhouse gas emission reduction target to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030. This is one strategy to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050. EO B-32-15 orders the development of a statewide, integrated Sustainable Freight Action Plan by July 2016. 																										
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Administration, Cris Rojas Maintenance and Operations, Steve Takigawa Planning and Modal Programs, Coco Briseno Project Development, Karla Sutliff Finance, Norma Ortega District Directors 																										
Status	<p>Climate Registry only (Excludes Pavement and Bridge operational emissions):</p> <ul style="list-style-type: none"> Caltrans' reported GHG emissions to the Climate Registry that reflect a 27.73% reduction in gas emissions from 2010 through 2014, which exceeds the 2020 goal. This includes fuel usage for vehicles, highway/street lighting, building electricity and heating, leased facilities electricity (calculated using an estimation method based on the building's square footage and utility company, following the process in the Climate Registry "General Reporting Protocol"). See Appendix B: Caltrans emissions summary. <p>The breakdown of Caltrans' progress towards completing the GHG emissions goals stated in EO B-18-12 is the following:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Natural Gas (metric tons)</th> <th>Vehicles (metric tons)</th> <th>Purchased Electricity (metric tons)</th> <th>Total CO₂e (metric tons)</th> <th>Annual Percent Reduction since 2010</th> </tr> </thead> <tbody> <tr> <td>2010 (Baseline year)</td> <td>7,585</td> <td>118,042</td> <td>89,356</td> <td>214,983</td> <td></td> </tr> <tr> <td>2011</td> <td>10,223</td> <td>115,118</td> <td>85,725</td> <td>211,066</td> <td>-2%</td> </tr> <tr> <td>2012</td> <td>5,484</td> <td>112,758</td> <td>78,373</td> <td>196,615</td> <td>-9%</td> </tr> </tbody> </table>	Year	Natural Gas (metric tons)	Vehicles (metric tons)	Purchased Electricity (metric tons)	Total CO ₂ e (metric tons)	Annual Percent Reduction since 2010	2010 (Baseline year)	7,585	118,042	89,356	214,983		2011	10,223	115,118	85,725	211,066	-2%	2012	5,484	112,758	78,373	196,615	-9%	Submitted to CalEPA Climate Registry by April 1, 2015	Dillon Miner, Planning
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2012	5,484	112,758	78,373	196,615	-9%																						

						Date Status Completed /or Steps Anticipated	Caltrans Lead	
	2013	7,179	108,810	80,841	196,830	-9%		
	2014	4,735	105,338	45,538	155,611	-28% ✓		
	2014 Strategy Reduction since 2011	-38%	-11%	-49%	-28%			
	<ul style="list-style-type: none"> o 2015 10% reduction target: 193,485 (✓ Achieved in 2014 for Climate Registry activities). o 2020 20% reduction target: 171,986 (✓ Achieved in 2014 for Climate Registry activities). 							
	<ul style="list-style-type: none"> • Caltrans is currently using telematics to monitor driving patterns which will result in a reduction of idling time and speed (which both increase fuel economy), and a reduction in unauthorized trips (which will reduce vehicle miles travelled [VMT]). 						Completed early 2015	Jeremy Matsuo, Equipment
	<p>Operational GHG Emissions (not included in Climate Registry):</p> <ul style="list-style-type: none"> • Tracking of Project Materials: Caltrans has implemented numerous initiatives to reduce GHG emissions from multiple programs, including highway materials, highway operations and maintenance, and facilities and administration. Plans to include tracking and reporting GHG emissions data from materials used in the construction of pavement and structures, as required by the Caltrans SMP, are still in development. Caltrans first documented operational CO₂e emissions in the “Caltrans Activities to Address Climate Change” report, published in April 2013. The tool developed by a consultant in 2011 needs to be validated and responsible parties need to be identified. Additional data for pavement using the tool developed by this report are below (Structures Materials’ data are in development): 						2015	Dillon Miner, Planning
	Year	Pavement Asphalt Materials (metric tons)	Pavement Concrete Materials (metric tons)	Structures Materials (metric tons)	Total CO₂e (metric tons)	Annual Percent Reduction since 2010		
	2011 (Baseline year)	67,182	47,236	XX	114,418			
	2012	43,401	29,296	XX	72,696	-36%		
	2013	26,185	77,971	XX	104,156	-9%		
	2014	28,079	16,929	XX	45,007	-61%		
	2014 Strategy Reduction since 2011	-58%	-64%	XX%	-61%			

	Date Status Completed /or Steps Anticipated	Caltrans Lead
<p>Strategic Management Plan: Caltrans added a performance measure in its SMP to reduce pollutants as follows:</p> <ul style="list-style-type: none"> • Percent reduction of pollutants from Caltrans design, construction, operation, and maintenance of transportation infrastructure and buildings for: <ul style="list-style-type: none"> ○ Greenhouse gas (GHG) emissions ○ Criteria air emissions 	SMP Published March 2015	Pete Spaulding, Strategic Management
<p>System GHG Emissions (not included in Climate Registry): Caltrans programs, grants, guidance, and technical assistance that support GHG reductions of the statewide transportation system.</p>		
<ul style="list-style-type: none"> • Active Transportation Plan (ATP). Consolidates existing federal and state transportation programs, including the Transportation Alternatives Program (TAP), Bicycle Transportation Account (BTA), and State Safe Routes to School (SR2S), into a single program with a focus to make California a national leader in active transportation. <ul style="list-style-type: none"> ○ Program Delivery Report (Programmed vs. Allocated). 	Report updated after each monthly CTC meeting	April Nitsos, Local Assistance
<ul style="list-style-type: none"> • Class IV Bikeways. The Protected Bikeways Act of 2014 requires Caltrans to establish minimum safety design criteria for Class IV Bikeways, also referred to as cycle tracks or separated bikeways designed to promote active transportation by providing a right-of-way designated exclusively for bicycle travel that is adjacent to a roadway which is protected from vehicular traffic through types of separation including, but not limited to: grade separation; flexible posts; inflexible physical barriers; or on-street parking. 	Completed December 2015	Kevin Herritt, Design
<ul style="list-style-type: none"> • Complete Streets. Design guidelines for Complete Streets that provide safety and access to all users and all modes of transportation. <ul style="list-style-type: none"> ○ Complete Streets Implementation Action Plan. 	Updated June 2015	Ann Mahaney, Planning
<ul style="list-style-type: none"> • Intelligent Transportation Systems. Multimodal Integrated Corridor Management. <ul style="list-style-type: none"> ○ Operational coordination of multiple transportation networks and cross-network connections comprising a corridor. Optimizes efficiency of all modes along a corridor to reduce congestion and enhance travel choices. 	2015	Kris Kuhl, Traffic Ops
<ul style="list-style-type: none"> • Multimodal Alternative Analysis. California Transportation Plan. <ul style="list-style-type: none"> ○ Analyzes multiple, multimodal transportation scenarios to identify maximum GHG reductions for the statewide transportation system. 	2016	Gabriel Corley, Planning
<ul style="list-style-type: none"> • Multimodal System Planning. <ul style="list-style-type: none"> ○ Long-range planning for interregional transportation, corridor system management, and multimodal statewide travel analysis on the State Highway System (SHS). Provides the basis for identifying current and future deficiencies on the SHS and identifies strategies and projects to address deficiencies and make improvements to meet Caltrans goals. 	2015	Tracey Frost, Planning
<ul style="list-style-type: none"> • Park and Ride. Supports BRT and carpooling. <ul style="list-style-type: none"> ○ Park and Ride Program Resource Guide. 	2010	Narayan Selwal, Traffic Ops

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> ○ Park and Ride Team Charter - analyzing opportunities to optimize the use of P&R infrastructure. 	2016	Mitch Baker, Planning
	<ul style="list-style-type: none"> ● Regional Transportation Plans and Sustainable Community Strategies (SCS) Review. Incorporates SB 375 into the Regional Transportation Planning Guidelines and reviews Regional Transportation Plans for conformity. 	2015	Tracey Frost, Planning
Steps to Achievement	Climate Registry:		
	1.1. Buildings: Caltrans has begun enrolling in REV Sustainability Circles. An REV Sustainability Circle is a comprehensive, six-month, peer-learning program that will enable Caltrans to implement sustainability practices. The result is an implementable, customized, five-year action plan, as well as identifiable savings in energy, water, greenhouse gas emissions, waste, and money.		
	a) Current enrolled district locations include:		
	District 4 (Oakland). Started in October 2015.	To be completed by April 2016	Walter Garcia, District 4 Facilities
	District 11 (San Diego). Started in October 2015.	To be completed by April 2016	Denella Blount, D11 Facilities
	b) Future locations include:		
	District 3 (Sacramento). Anticipated in January 2016.	To be completed by July 2016	Sue Garibay, D3 Facilities
	District 8 (Inland Empire). To begin in February 2016.	To be completed by Aug 2016	Brenda Lopez, D8 Facilities
	1.2. ZEV: A vehicle replacement plan through 2020 will be developed. DOE will investigate heavy-duty ZEVs when available.	By June 2016	Jeremy Matsuo, Equipment
	1.3. Highway LEDs: The installation/replacement of high pressure sodium light fixtures with LED fixtures along the highway will result in a 35-60% energy savings. Approximately 50,000 out of 80,000 LEDs have been installed.	By Dec. 2017	Gonzalo Gomez, Maintenance
1.4. Building LEDs: In 2014, 9,000 LED luminaries were replaced in the Caltrans Headquarters building. In 2015, approximately 52,000 LED luminaries were purchased and distributed to Caltrans' statewide district headquarters office buildings. Installation of the 52,000 LED luminaries is in progress with 19% installed by December 2015 and a target completion date of December 2016.	By Dec. 2016	Paul Little, DBFS	
Operational GHG:			
1.5. Tracking of Project Materials: Plans to include tracking and reporting GHG emissions data from materials used in the construction of pavement and structures, as required by the Caltrans SMP, are still in development. The tool developed by a consultant in 2011 needs to be validated and responsible parties need to be identified.	By Feb 2016	Dillon Miner, Planning	

	Date Status Completed /or Steps Anticipated	Caltrans Lead
<p>1.6. By 2020, reduce Caltrans' internal operational pollutants by District from 2010 levels (from planning, project delivery, construction, operations, maintenance, equipment, and buildings) as follows:</p> <p>a) 15% reduction by 2015 and 20% reduction by 2020 of Caltrans' GHG emissions per EO-B-18-12.</p> <p>Caltrans will be using a wide variety of strategies to achieve this goal. Please find the list of strategies in Appendix B.</p>	<p>By December 2020</p>	<p>Marilee Mortenson, Planning and Jeremy Matsuo, Equipment</p>
<p>1.7. By 2020, increase by 20% incorporating green infrastructure into transportation projects relative to 2010 levels. A green infrastructure team is working to develop a green-infrastructure scoring tool to incorporate into project selection criteria.</p> <p>The incorporation of green infrastructure is an effective and cost-efficient tool for:</p> <ul style="list-style-type: none"> • absorbing and sequestering atmospheric carbon dioxide (CO₂) • filtering air and water pollutants • stabilizing soil to prevent or reduce erosion • providing wildlife habitat • decreasing solar heat gain • lowering the public cost of stormwater management infrastructure and providing flood control • reducing energy usage through passive heating and cooling • reducing energy usage and GHG emissions through the use of recycled building materials <p>Green infrastructure is crucial to combating climate change, creating healthy built environments, and improving quality of life.</p>	<p>By December 2020</p>	<p>Chris Rossmiller, Design</p>
<p>System GHG: The Caltrans SMP includes performance measures for reducing GHG by reducing environmental impacts from the transportation system. Strategies that Caltrans uses to reduce system GHG include encouraging a shift to alternative fuels and alternative transportation modes.</p> <p>Caltrans strives to improve the quality of life for all Californians by providing mobility choice, increasing accessibility to all modes of transportation and creating transportation corridors not only for conveyance of people, goods, and services, but also as livable public spaces.</p>		
<p>1.8 Caltrans plans to measure the percentage increase of non-auto modes for bicycle, pedestrian, and transit. By 2020, Caltrans will increase non-auto modes (triple bicycle, double pedestrian, and double transit).</p>	<p>By Dec 2020 and Action Plan by Dec 2016.</p>	<p>Tracey Frost, Planning</p>

		Date Status Completed /or Steps Anticipated	Caltrans Lead
1.9	Caltrans will develop a statewide bicycle and pedestrian plan that is aspirational, visionary, goal and performance driven, realistic, and constitutes a strategic policy framework for bicycle and pedestrian transportation in California.	By February 2017	Scott Forsythe, Planning
1.10	Caltrans will create an accessibility score for transportation corridor planning (to be determined considering, e.g., multimodal transportation proximity to jobs, disadvantaged communities, housing services, transit-oriented communities, etc.).	By December 2016	Rahul Srivastava, Planning
1.11	Caltrans will create a livability scoring tool (to be determined considering, e.g., quality of life, noise, safety, public health, localized emissions, and environmental justice concerns, etc.) to be incorporated into project selection criteria.	By December 2016	Keith Robinson, Design
1.12	Caltrans plans to measure the percentage of the top 25 priority corridor system master plans completed to enhance the sustainability of the transportation system. (Priority corridors to be determined considering: mobility, freight, highways, transit, rail, bike, pedestrian, aviation, etc.) Caltrans will complete corridor system plans for all state routes by 2017 and top 25 corridor system management plans by 2020.	By Dec 2017 and Dec 2020	Melissa Thompson, Sustainability Program
1.13	Caltrans strives to reduce environmental impacts from the transportation system with emphasis on supporting a statewide reduction of greenhouse gas emissions to achieve 80% below 1990 levels by 2050.	By December 2050	Marilee Mortenson, Planning and Jeremy Matsuo, Equipment
1.14	Caltrans will measure per capita vehicle miles traveled (VMT) . By 2020, Caltrans will achieve a 15% reduction (3% per year) of statewide per capita VMT relative to 2010 levels.	By Dec 2020	Melody Friberg, Planning Program
1.15	Caltrans will measure the percent reduction of transportation system-related air pollution for: GHG emissions, Criteria pollutant emissions. Reduce GHG by 15% from 2010 levels, to achieve 1990 levels by 2020.	By Dec 2020	Marilee Mortenson, Planning and Jeremy Matsuo, Equipment
1.16	In response to EO B-32-15, Caltrans will reduce GHG, develop an integrated freight action plan by July 2016 that establishes clear targets to improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of California's freight system to achieve 40% below 1990 levels by 2030. Caltrans and a multi-agency team will develop a "California Sustainable Freight Strategy" (CSFS) that will include a unified sustainable freight transportation vision and action plan for California. (See Appendix C for Q&A Fact Sheet.)	By Dec 2030 Final CSFS by July 2016	Karl Dreher, Design
1.17	Draft CSFS report , planned for release in early March 2016 for a 45-day review, will include the following categories: <ul style="list-style-type: none"> • Engines and Vehicles • Energy and Fuels • Freight Infrastructure and Facilities • Funding and Incentives • Freight System Efficiencies • Economy and Jobs 	Draft in March 2016	Karl Dreher, Design

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	1.18 Caltrans will improve freight system efficiency to enhance freight competitiveness and support a sustainable, low emissions freight system. By 2020, Caltrans will increase freight system efficiency by 10% with plans to develop a freight efficiency score by June 2016 and will be included in the CSFS final report .	By Dec 2020 & Score by June 2016	Karl Dreher, Design
2. ENERGY--Zero Net Energy (ZNE) (buildings only)			
Target & Timeline	<ol style="list-style-type: none"> 1. 2013--State to identify at least three ZNE pilot projects (new, renovated, existing)—completed. 2. 2020--ZNE on 50% of new construction & major renovations. 3. 2025--ZNE on 100% of new construction & major renovations. 4. 2025--ZNE on 50% of total existing building area. <ol style="list-style-type: none"> a) Total Caltrans existing building square footage is 7,100,000 (includes conditioned and unconditioned building space). b) Existing building square footage that must be ZNE by 2025 is 3,550,000. 		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors 		
Status	<ul style="list-style-type: none"> • The recently designed San Francisco-Oakland Bay Bridge (SFOBB) Maintenance Warehouse is anticipated to meet ZNE goals. 	Design Completed in June 2014	Bob Travis, DES
Steps to Achievement	New Construction/Major Renovations: 2.1 Future plans for new construction and major renovations consist of a memo to designers that will be included as a supplement to the existing design policies and procedures prior to the 2020 goal.	December 2019	Bob Travis, DES
	Existing Buildings: 2.3 Plans for existing buildings include identifying buildings with ZNE potential (a preliminary proposed list of buildings to be recommended can be found in Appendix D), and consulting with energy companies for further energy and cost analysis.	By December 2016	Desiree Fox, Sustainability Program
	2.4 Program specific plans will be developed to implement ZNE requirements.	By June 2017	Desiree Fox, Sustainability Program
3. ENERGY – Exceed Title 24 by 15% (buildings only)			
Target & Timeline	New buildings and major renovations beginning design after July 1, 2012, shall exceed Title 24 energy requirements by 15% or more. The California Energy Code is part 6 of the California Building Standards Code, which is Title 24 of the California Code of Regulations, also titled The Energy Efficiency Standards for Residential and Nonresidential Buildings. The goal of Title 24 is to ensure that building construction, system design and installation achieve energy efficiency and preserve outdoor and indoor environmental quality. The Standards establish a minimum level of building energy efficiency for both residential and nonresidential buildings. A building can be designed to a higher efficiency level, resulting in additional energy savings.		

		Date Status Completed /or Steps Anticipated	Caltrans Lead
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors 		
Status	• Caltrans is currently 100% compliant on this mandate that requires newly designed buildings to be at least 15% more energy efficient than the Title 24 standard.	2015	Bob Travis, DES
	• The following buildings began design after July 1, 2012:		
	○ Gaviota Safety Roadside Rest Area (SRRA). Crew building exceeded Title 24 by 28%.	Completed February 2014	Bob Travis, DES
	○ Lee Vining Maintenance Station. Crew building replacement exceeded Title 24 by 15%.	Completed September 2014	Bob Travis, DES
	○ Mojave Maintenance Station. Mechanics' Facility replacement exceeded Title 24 by 15%.	Completed July 2015	Bob Travis, DES
	○ Phillip Raine SRRA. LEED Platinum designation. Exceeded Title 24 by 73%	Completed October 2012	Bob Travis, DES
	○ SFOBB Toll Plaza. Maintenance Complex (Phase 1) exceeded Title 24 by 52%.	Completed May 2015.	Bob Travis, DES
Steps to Achievement	3.1 The Caltrans Division of Engineering Services will use internal policies and quality control reviews to meet the goal. Prior to EO B-18-12, facility designs were to be evaluated and achieve an energy savings higher than 10% versus current Title 24. After EO B-18-12, facility designs will meet or exceed the 15% requirement. Projects are to be modeled and evaluated using EnergyPro software.	2012-ongoing	Bob Travis, DES
4. ENERGY – Reduce Grid-Based Energy Purchases by 20% by 2018 (buildings/highways)			
Target & Timeline	<p>Reduce grid-based energy purchases by 20% by 2018, compared with 2003 baseline for state-owned buildings and non-building grid-based energy purchases.</p> <ol style="list-style-type: none"> 1. Verify data entries into Energy Star Portfolio Manager (ESPM), including energy use by facilities and individual buildings (if metered separately) that are owned, or leased space where the state pays utilities. 2. Provide access to this energy use data on the ESPM to DGS by March 1st each year, including energy use, individual building square footages (if metered separately), and building types. 3. Comply with the California Department of Technology's <u>Basic Policy 4819.31</u>, item 12 (Implementing Power Management Practices). 4. Comply with the requirements of <u>Management Memo 14-07</u> (Standard Operating Efficiency Procedures). 5. Comply with requirements of <u>Management Memo 14-09</u> (Energy Efficiency in Data Centers and Server Rooms). 6. Comply with requirements of <u>Management Memo 15-04</u> (Energy Use Reduction and Reporting for New, Existing and Leased Buildings). 		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa 		

		Date Status Completed /or Steps Anticipated	Caltrans Lead																															
	<ul style="list-style-type: none"> Project Development, Karla Sutliff Finance, Norma Ortega Information Technology, George Akiyama District Directors 																																	
Status	<p>Buildings/Facilities:</p> <ul style="list-style-type: none"> Plug load energy reduction (Basic Policy SAM Section 4819.31). Caltrans IT currently uses a power management software called Verdiem. It is installed on all workstations and laptops. The software assists with power saving options on the workstations and laptops by managing the power options settings. Most network printers go into sleep mode by default, if not active after approximately an hour. 	2009	George Akiyama, IT																															
	<ul style="list-style-type: none"> Energy use reporting (MM 15-04). Energy usage data are entered into ESPM through automatic upload monthly. Energy usage data are manually entered for buildings serviced by energy companies that do not have automatic upload capabilities annually. 19% of buildings are not uploaded automatically. See Appendix D for the Caltrans Energy Report. The energy use reported to DGS in 2003 cannot be verified, since the data from the energy companies and Caltrans Accounting can no longer be found. The Caltrans building energy use verified by DGS can be found in the table below: <table border="1"> <thead> <tr> <th>Year</th> <th>kBtus</th> <th># of buildings</th> <th>% reduction</th> </tr> </thead> <tbody> <tr> <td>Original 2003*</td> <td>362,487,225</td> <td>Unknown</td> <td rowspan="2">14%</td> </tr> <tr> <td>2014**</td> <td>311,451,468</td> <td>442</td> </tr> <tr> <td>2018 Target</td> <td>289,989,780</td> <td></td> <td>20% from 2003 baseline</td> </tr> </tbody> </table> <p>*Reported to DGS in prior years **Energy Star report ran by DGS in April 2015</p> <p><i>A reduction of 21,461,688 kBtus is needed to achieve 2018 target of 20% below 2003 baseline.</i></p> <p>The energy use that was verified in Energy Star is found in the table below. For like comparisons, also shown is the Energy Use Intensity (EUI)--an evaluation of energy per square foot of building area:</p> <table border="1"> <thead> <tr> <th>Year</th> <th>kBtus</th> <th># of buildings</th> <th>Total Floor Area (sf)</th> <th>EUI = kBtus/sf</th> <th>% EUI reduction</th> </tr> </thead> <tbody> <tr> <td>Revised 2003***</td> <td>319,182,158</td> <td>253</td> <td>4,191,312</td> <td>76.15</td> <td rowspan="2">40.28%</td> </tr> <tr> <td>2014***</td> <td>323,503,444</td> <td>442</td> <td>7,114,752</td> <td>45.47</td> </tr> </tbody> </table>	Year	kBtus	# of buildings	% reduction	Original 2003*	362,487,225	Unknown	14%	2014**	311,451,468	442	2018 Target	289,989,780		20% from 2003 baseline	Year	kBtus	# of buildings	Total Floor Area (sf)	EUI = kBtus/sf	% EUI reduction	Revised 2003***	319,182,158	253	4,191,312	76.15	40.28%	2014***	323,503,444	442	7,114,752	45.47	March 2015
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		Date Status Completed /or Steps Anticipated	Caltrans Lead
	***Energy Star report produced by Caltrans in October 2015		
	<ul style="list-style-type: none"> Grid-based energy purchasing reduction has been achieved through the installation of LEDs, photovoltaic solar panels, and modernized HVACs in various buildings throughout the state. See Appendix E for specific energy efficiency projects installed since April 2012. 	2012	Facility Managers
	<ul style="list-style-type: none"> Building LED's: In 2014, 9,000 LED luminaries were installed at the Sacramento Headquarters office building. This will result in a savings of 50% lighting electrical costs over the T-8 and T-12 fluorescent lights. Furthermore the longer useful life reduces replacement costs. 	2014	Paul Little, DBFS
	Highways: <ul style="list-style-type: none"> LEDs on the Highway. Installation/replacement of high pressure sodium fixtures with LED fixtures along the highway. Approximately 50,000 out of 80,000 LEDs have been installed. 	2015	Gonzalo Gomez, Maintenance
Steps to Achievement	Buildings/Facilities: 4.1 Plug load energy reduction (Basic Policy SAM Section 4819.31). Dhaani Systems energy-saving software was piloted in 2013 on a total of 64 workstations at 2 different Caltrans buildings. It showed an average of an 88% energy savings with a return of investment of 10 months. The financial savings of \$4,400 equates to an energy savings of 61,000 kWh/yr. and GHG emission savings of 25,000 kg of CO ₂ . If applied to all workstations throughout the state (approximately 18,000 workstations), a savings of \$2.4 million per year and over 19 million kWh per year should be achieved. There are already energy saving systems currently running on the workstations (Microsoft or other products) that work similar to Dhaani, but those systems do not have the reporting feature that Dhaani has. Dhaani will be presented to the IT Customer Relations Office for review and recommendation.	By June 2016	Desiree Fox, Sustainability Program
	4.2 REV Sustainability Circles (MM14-07). Caltrans has begun enrolling in REV Sustainability Circles. An REV Sustainability circle is a comprehensive, six-month, peer-learning program that will enable Caltrans to implement sustainability practices. The result is an implementable, customized, five-year action plan, as well as identifiable savings in the areas of energy, water, greenhouse gas emissions, waste and money.		
	a) Currently enrolled district locations include: District 4 (Oakland) started in October 2015 District 11 (San Diego) started in October 2015	Completed by April 2016 April 2016	Walter Garcia, District 4 Facilities Denella Blount, D11 Facilities
	b) Future locations include: District 3 (Sacramento) anticipated to start in January 2016.	July 2016	Sue Garibay, D3 Facilities

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	District 8 (Inland Empire) which will begin February 2016.	Completed by Aug 2016	Brenda Lopez, D8 Facilities
4.3	A survey of District facilities managers' specific efforts to comply with MM 14-07 Standard Operating Efficiency Procedures is planned.	By June 2016	Desiree Fox, Sustainability Program
4.4	Data Center Energy Efficiency (MM 14-09). Caltrans has ten buildings with computer server rooms larger than 1,000 square feet, two of which are located in TMCs and the other eight in office buildings. Currently, Caltrans has reported on the "total computer server room input," but has not reported the "computer server room UPS output." The Power Usage Effectiveness (PUE) cannot be determined without the UPS output. Caltrans has almost 250 electricians statewide who can provide this measurement. The Caltrans CIO will work with Caltrans facilities staff to determine how to measure the UPS output to obtain the PUE and develop an action plan in buildings with a PUE greater than 1.5. See Appendix F for the list of buildings with computer server rooms. See Appendix G for a list for Caltrans PUE reporting.	PUE data due by December 2015, Action plan due by June 2016	George Akiyama, IT
4.5	An inventory of incandescent light bulbs and any remaining magnetic fluorescent ballasts in fluorescent light fixtures will be gathered in each building by August 2016 for planning and recommendations of feasible upgrades by December 2016 (MM 14-07).	By December 2016	Desiree Fox, Sustainability Program
4.6	In 2015, approximately 52,000 LED luminaries were purchased and distributed to Caltrans' statewide district headquarters office buildings. Installation of the 52,000 LED luminaries is in progress. 19% were installed by December 2015 with a target completion date of December 2016.	By December 2016	Paul Little, DBFS
	Highways: 4.7 LEDs on the Highway. Installation/replacement of high pressure sodium fixtures with LED fixtures along the highway. Approximately 50,000 out of 80,000 LEDs have been installed.	By December 2017	Gonzalo Gomez, Maintenance
5. ENERGY – Demand Response (buildings)			
Target & Timeline	Participate in Demand Response programs to obtain financial incentives for reducing peak electrical loads when called upon, to maximum extent cost-effective and not materially adversely affecting agency operations by December 31, 2016. (MM15-04)		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors 		
Status	The following buildings are on Demand Response:		

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> In Southern California Edison (SCE) territory the following are currently enrolled in the Critical Peak Pricing Program: <ul style="list-style-type: none"> Century South Region Maintenance Station (District 7, Inglewood). 	2015	District Facility Managers
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Southern Regional Lab (District 8, Fontana). 	2015	District Facility Managers
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> District 8 Headquarters Office (San Bernardino). 	2015	District Facility Managers
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> District 9 Headquarters Office (Bishop). 	2015	District Facility Managers
	<ul style="list-style-type: none"> In San Diego Gas and Electric (SDG&E) territory: <ul style="list-style-type: none"> The San Diego TMC (District 11) building is currently enrolled in the Critical Peak Pricing Program and the Clean Generation Program. 	2015	District Facility Managers
	<ul style="list-style-type: none"> In Pacific Gas and Electric (PG&E) territory: <ul style="list-style-type: none"> The District 6 Headquarters (Fresno) Office is currently enrolled in the Demand Bidding Program. 	2015	District Facility Managers
	<ul style="list-style-type: none"> An initial survey shows three buildings with Building Management Systems are enrolled in Demand Response Programs. See Appendix H for a list of buildings with Building Management Systems. 	2015	District Facility Managers
Steps to Achievement	5.1 A plan for ideal locations to enroll in demand response and load shedding strategy programs will be developed. This plan will consider buildings where demand response would adversely affect operations and include site visits and analyses of the buildings to determine enrollment eligibility.	By June 2016	Desiree Fox, Sustainability Program
	5.2 District 4 Headquarters office (Oakland). Caltrans is working with PG&E and Energy Solutions to perform an analysis at the District 4 Headquarters office for a potential project for the PG&E Automated Demand Response Program.	By December 2016	Selena Kubota, DBFS
6. ENERGY – On-Site Renewable Energy (buildings/highways)			
Target & Timeline	<ol style="list-style-type: none"> New or major renovated buildings over 10,000 square feet shall use clean, on-site power generation and clean back-up power supplies, if economically feasible. Facilities with available open land shall consider large scale distributed generation through various financing methods, including third party power purchase agreements (PPA's). 		
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Administration, Cris Rojas Maintenance and Operations, Steve Takigawa Project Development, Karla Sutliff Finance, Norma Ortega District Directors 		
Status	<ul style="list-style-type: none"> See Appendix I for a list of facilities with onsite renewable energy purchased with Clean Energy Renewable Bonds (CREBs). 	Completed in 2013	Selena Kubota, DBFS

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	New or major renovated buildings over 10,000 square feet: <ul style="list-style-type: none"> SFOBB Toll Plaza - Maintenance Complex (Phase 1). 	Completed May 2015	Bob Travis, DES
	Facilities with available open land: <ul style="list-style-type: none"> District 8 installed a 19-acre solar farm utilizing a PPA on land adjacent to the Inland Empire TMC and Southern Regional Lab campus located in Fontana. This one megawatt solar project with 3,700 solar panels will provide 80% of the power for the Inland Empire TMC and Southern Regional Lab. The projected savings is \$1.5 million over 20 years (approximately \$50,000 per year). The solar farm went through a commissioning process to save money and to reduce its carbon footprint during its initial activation in November 2015. 	November 2015	Thomas Ainsworth, D8 Traffic Ops
Steps to Achievement	Buildings: 6.1. Several Caltrans buildings will have solar panels installed using Power Purchase Agreements through DGS before the reduced tax incentive takes effect by December 2016. Under these agreements, the solar provider installs solar power systems using third-party financing, then sells the renewable electricity generated by the solar panels at a competitive cost to the host facility. See Appendix J for a list of proposed sites.	By December 2016	District Facilities Managers
	Facilities with available open land: 6.2 DOE is considering solar panel canopies in parking lots and wind generators at some of the Equipment Shop facilities (contingent on available funding) and will develop a plan.	By December 2016	Lisa Kunzman, Equipment
	6.3. DGS issued a Request for Proposal (RFP) in June 2015 for the bidding of an approximately 593 kW third party-financed PV parking canopy system at the Caltrans District 3 Marysville office (a DGS-owned building).	By December 2016	DGS
	Highway Right of Way: 6.4 Caltrans plans to host a national discussion with Federal Highway Administration (FHWA) and State Smart Transportation Initiative (SSTI) to advance solar in federally-owned right of way , such as Safety Roadside Rest Areas and Park and Rides. These discussions will take place in 2016.	By June 2016	Desiree Fox, Sustainability Program
7. BUILDING DESIGN & CONSTRUCTION (buildings only)			
Target & Timeline	<ol style="list-style-type: none"> New and major renovated state buildings and build-to-suit leases over 10,000 square feet shall obtain Leadership in Environmental Design (LEED) "Silver" certification or higher. Buildings smaller than 10,000 square feet beginning design after January 1, 2013, shall meet applicable CALGREEN Tier 1 measures. All new buildings, major renovation and build-to-suit leases shall include an Energy Management System (<u>MM15-04</u> 1.g). All new leases shall require the use of submeters for gathering energy use data. (<u>MM15-04</u> 3.c). 		
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Administration, Cris Rojas Maintenance and Operations, Steve Takigawa 	Construction completed in	

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> Project Development, Karla Sutliff Finance, Norma Ortega District Directors DGS 		
Status	New buildings: <ul style="list-style-type: none"> SFOBB Toll Plaza - Maintenance Station building (Phase 1) obtained a LEED Gold Certification. 	Construction completed in June 2015	Bob Travis, DES
	<ul style="list-style-type: none"> Phillip S. Raine Safety Roadside Rest Area (SRRA) located on Highway 99 in District 6 (Tulare County) obtained a LEED Platinum certification (the highest rating available) and is the first LEED-certified rest area in California. 	Completed in October 2012	Bob Travis, DES
	<ul style="list-style-type: none"> The Division of Engineering Services, Offices of Transportation Architecture and Electrical, Mechanical Water and Wastewater, has established policies on the delivery of new buildings and facilities to meet Caltrans policies, the California Building Code, and the Governors EOs. 	2013	Bob Travis, DES
	Leases: <ul style="list-style-type: none"> Farmers Market Plaza. The lease was renegotiated in 2015. This project has LEED-Existing Building (EB) Silver certification and the lessor implemented measures of the CALGreen code related to indoor environmental quality and water efficiency. 	2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> District 6 (3502 N. Blackstone, Fresno). The new lease was signed in June 2015. The effective date of the lease is March 2016. This project is targeted to achieve LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. There is no outdoor watering at this facility. 	June 2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> District 5 (2885 S. Higuera, San Luis Obispo). A new lease was signed in March 2015. The lease effective date is July 1, 2016. This project is targeted to achieve a LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. 	March 2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> District 12 (Irvine). A new leased site is being proposed pending California Department of Finance approval. Caltrans is working with DGS. The proposed lease project will implement measures of the CALGreen code related to indoor environmental quality, water efficiency and LEED certification, as appropriate. 	June 2016	Lance Hibben, DBFS
Steps to Achievement	New buildings: 7.1 SFOBB Warehouse (Phase 2) is expected to achieve LEED Silver.	Construction completion is estimated for May 2016.	Bob Travis, DES
	7.2 SFOBB Warehouse (Phase 3) is expected to achieve LEED Silver.	Construction completion is estimated for March 2018.	Bob Travis, DES

		Date Status Completed /or Steps Anticipated	Caltrans Lead
8. BUILDING COMMISSIONING (Cx) (buildings only)			
Target & Timeline	New and existing buildings shall incorporate building commissioning to facilitate improved and efficient building operation. 1. State agencies managing state-owned buildings shall pursue monitoring-based commissioning for facilities over 5,000 square feet with EUI's exceeding thresholds described in <u>Management Memo 15-04</u> . 2. New construction or major renovations greater than 5,000 square feet for offices or other energy intensive spaces shall be commissioned.		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors • DGS 		
Status	Existing buildings commissioned: <ul style="list-style-type: none"> • In November 2012, the Inland Empire TMC (Fontana) completed commissioning and achieved LEED Gold Rating as a result. The current EUI of 231 is still above the threshold. 	Commissioned 2012	Thomas Ainsworth, D8 Traffic Ops
	<ul style="list-style-type: none"> • In 2014, DOE has incorporated commissioning in the Sacramento DOE Headquarters modernized HVAC retrofit and the District 11 (San Diego) Equipment Shop lighting improvement projects. EUI is calculated using a full year of data. It is too soon to determine if the current EUI is within the threshold. 	Commissioned 2014	Lisa Kunzman, Equipment
	<ul style="list-style-type: none"> • District 1 (Eureka) Fire Life Safety Modernization Project included building commissioning of the building's mechanical system, completed in July 2015. EUI is calculated using a full year of data. 	Commissioned 2015	District 1 Facilities
	New buildings over 5,000 sq. ft. commissioned: <ul style="list-style-type: none"> • Phillip Raine SRRA. 	Completed in October 2012	Bob Travis, DES
	<ul style="list-style-type: none"> • San Francisco Oakland Bay Bridge Toll Plaza - Maintenance Station Building (Phase 1). 	Completed in June 2015	Bob Travis, DES
Steps to Achievement	Existing buildings commissioned: 8.1 The District 7 (Los Angeles) headquarters office building is in the process of re-commissioning new and existing systems, scheduled completion date of March 2016.	March 2016	District 7 Facilities
	8.2 In November 2012, the Inland Empire TMC (Fontana) completed commissioning and achieved LEED Gold Rating as a result. The current EUI of 231 is still above the threshold. Further review and analysis of this building will take place in 2016 .	Analysis by Dec 2016	Thomas Ainsworth, D8 Traffic Ops
	8.3 In 2014, DOE has incorporated commissioning in the Sacramento DOE Headquarters modernized HVAC retrofit and the District 11 (San Diego) Equipment Shop lighting improvement projects. EUI is calculated using a full year of data. It is	Analysis by Dec 2016	Lisa Kunzman, Equipment

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	too soon to determine if the current EUI is within the threshold. Further review and analysis of this building will take place in 2016 .		
8.4	District 1 (Eureka) Fire Life Safety Modernization Project included building commissioning of the building's mechanical system, completed in July 2015. EUI is calculated using a full year of data. It is too soon to determine if the current EUI is within the threshold. Further review and analysis of this building will take place in 2016 .	Analysis by Dec 2016	District 1 Facilities
8.5	An analysis of the energy data EUI established that there are 26 buildings that need commissioning based on the requirements of MM 15-04, Table 2. An action plan to address buildings not meeting the threshold will be required by June 2016 . See Appendix K for the EUI data analysis.	By June 2016	Desiree Fox, Sustainability
9. EXISTING BUILDINGS – LEED-EB (buildings only)			
Target & Timeline	All existing state buildings over 50,000 square feet shall complete LEED-EB certification by December 31, 2015 and meet Energy Star rating of 75, or alternate energy standard established by the CEC, to the maximum extent cost-effective.		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors 		
Status	Leased: <ul style="list-style-type: none"> • The Caltrans District 3 (Marysville) Headquarters office building (a DGS building) achieved LEED-EB Silver certification in 2011. DGS is re-certifying this building under their group certification contract. This building has an Energy Star score of 95. 	Contract started August 2015	DGS
	Owned: <ul style="list-style-type: none"> • The District 7 (Los Angeles) Headquarters office achieved LEED-EB Gold certification in 2011 after a commitment to a series of changes to daily practices involving heating and cooling, recycled product purchasing, and the adoption of more sustainable custodial practices. DGS is recertifying this building under their group certification contract and it is currently being analyzed for energy efficiency to determine the Energy Star Score. 	Contract started August 2015	Desiree Fox, Sustainability Program and DGS
	<ul style="list-style-type: none"> • The Caltrans Headquarters Office Building (1120 N Street) is currently under contract to achieve LEED-EB Silver certification. It currently being analyzed for energy efficiency to determine the Energy Star Score. 	Contract started September 2015	Desiree Fox, Sustainability Program and Selena Kubota, DBFS
Steps to Achievement	Leased:	Completed by November 2016	DGS

	Date Status Completed /or Steps Anticipated	Caltrans Lead
9.1 The Caltrans District 3 (Marysville) Headquarters office building (a DGS building) achieved LEED-EB Silver certification in 2011. DGS is re-certifying this building under their group certification contract. LEED-EB certification is scheduled to be completed by November 2016.		
Owned: 9.2 The District 7 (Los Angeles) Headquarters office achieved LEED-EB Gold certification in 2011 after a commitment to a series of changes to daily practices involving heating and cooling, recycled product purchasing, and the adoption of more sustainable custodial practices. DGS is recertifying this building under their group certification contract. The building is scheduled to be LEED-EB certified by November 2016.	Completed by November 2016	Desiree Fox, Sustainability Program and DGS
9.3 The Caltrans Headquarters Office Building (1120 N Street) is currently under contract to achieve LEED- EB Silver certification and is on schedule to be LEED-EB certified by July 2016.	Completed by July 2016	Desiree Fox, Sustainability Program and Selena Kubota, DBFS
The following buildings will be under contract for LEED-EB certification review by January 2016:	Contract by Jan 2016	Desiree Fox, Sustainability Program, Selena Kubota, DBFS and D6 Facilities
9.4 District 6 Headquarters Office (Fresno)		
9.5 District 10 Headquarters Office (Stockton)	Contract by Jan 2016	Desiree Fox, Sustainability Program, Selena Kubota, DBFS and D10 Facilities
9.6 District 7 Transportation Management Center (Los Angeles)	Contract by Jan 2016	Desiree Fox, Sustainability Program and D7 Facilities
9.7 District 12 Transportation Management Center (Irvine)	Contract by Jan 2016	Desiree Fox, Sustainability Program and D12 Facilities
9.8 Caltrans Transportation Laboratory (Sacramento)	Contract by Jan 2016	Desiree Fox, Sustainability Program and HQ Maint.

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	9.9 Southern Regional Laboratory (Fontana).	Contract by Jan 2016	Desiree Fox, Sustainability Program and HQ Maint
	The remaining buildings will have a LEED contract by December 2016: 9.10 District 1 Headquarters Office Building (Eureka)	Contract by Dec 2016	Desiree Fox, Sustainability Program, Selena Kubota, DBFS and D1 Facilities
	9.11 District 4 Headquarters Office (Oakland)	Contract by Dec 2016	Desiree Fox, Sustainability Program, Selena Kubota, DBFS and D4 Facilities
	9.12 District 8 Headquarters Office (San Bernardino)	Contract by Dec 2016	Desiree Fox, Sustainability Program, Selena Kubota, DBFS and D8 Facilities
	9.13 District 2 Headquarters Office (Redding – less than 50,000 square feet) will be prioritized and evaluated for resources and funding.	Funding needed by Dec 2016	Desiree Fox, Sustainability, Selena Kubota, DBFS Program and D2 Facilities
10. INDOOR ENVIRONMENTAL QUALITY (buildings only)			
Target & Timeline	Comply with the requirements of <u>Management Memo 14-05</u> to ensure healthy indoor environments for occupants for new and major renovated buildings.		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Project Development, Karla Sutliff • Finance, Norma Ortega • District Directors 		
Status	The following buildings comply with Cal Green requirements for Indoor Environmental Quality: New Construction:	Completed May 2015	Bob Travis, DES
	<ul style="list-style-type: none"> • SFOBB Toll Plaza - Maintenance Complex (Phase 1) • Phillip Raine SRRA 	Completed October 2012	Bob Travis, DES

		Date Status Completed /or Steps Anticipated	Caltrans Lead				
	Leases: <ul style="list-style-type: none"> Farmers Market Plaza. The lease was renegotiated in 2015. This project is LEED-EB Silver certification and the lessor implemented measures of the CALGreen code related to indoor environmental quality and water efficiency. 	2015	Lance Hibben, DBFS				
	<ul style="list-style-type: none"> District 6 (3502 N. Blackstone, Fresno). The new lease was signed in June 2015. The effective date of the lease is March 2016. This project is targeted to achieve LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. There is no outdoor watering at this facility. 	June 2015	Lance Hibben, DBFS				
	<ul style="list-style-type: none"> District 5 (2885 S. Higuera, San Luis Obispo). The new lease was signed in March 2015. The effective date of the lease is July 1, 2016. This project is targeted to achieve LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. 	March 2015	Lance Hibben, DBFS				
Steps to Achievement	10.1 The Division of Engineering Services, Offices of Transportation Architecture and Electrical, Mechanical Water and Wastewater, use specifications that meet the requirements of building codes, including indoor environmental quality, for all transportation-related facilities.	Since 2012-ongoing	Bob Travis, DES				
11. WATER EFFICIENCY (buildings/highway)							
Target & Timeline	1. Agencies to reduce water use at the facilities they operate by 10% by 2015 and by 20% by 2020, as measured against a 2010 baseline benchmark (EO B-18-12). 2. Reduce potable urban water use by 25% between 2013 and February 28, 2016 (EO B-29-15).						
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Administration, Cris Rojas Maintenance and Operations, Steve Takigawa Project Development, Karla Sutliff Finance, Norma Ortega District Directors 						
Status	Beginning in February 2014, following the implementation of the Drought State of Emergency Proclamation, Caltrans implemented the following actions to reduce water consumption to meet the Governor's 20% reduction mandate while maintaining the viability of and the public's investment in highway planting:						
	Highway Landscape: <ul style="list-style-type: none"> Set a 50% reduction goal for highway roadside water use. 	2015	Keith Robinson, Design				
	<ul style="list-style-type: none"> A 32% reduction was achieved between the 2013 and 2014 calendar years, and a 61% reduction was achieved comparing 2010 with 2014. Comparison of water consumption during <i>first three quarters 2013-2015</i>: <table border="1"> <thead> <tr> <th>Year</th> <th>Gallons</th> </tr> </thead> <tbody> <tr> <td>2013</td> <td>5,562,314,035</td> </tr> </tbody> </table>	Year	Gallons	2013	5,562,314,035	2015	Keith Robinson, Design
Year	Gallons						
2013	5,562,314,035						

			Date Status Completed /or Steps Anticipated	Caltrans Lead
	2014	3,743,732,411		
	2015	2,089,692,893		
	<ul style="list-style-type: none"> Implemented a comprehensive statewide Drought Action Plan. 		2014 and 2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Revised design, construction and maintenance policies to improve water conservation. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Implemented an evaluation protocol to ensure any planting installed during the declared drought was “essential” as required by the proclamation. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Stopped irrigating in severe drought areas. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Evaluated and modified water application practices for maximum efficiency statewide. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Repaired and upgraded irrigation systems utilizing SMART technology at over 2300 locations. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Trained district field staff in effective irrigation practices. 		2015	Darold Heikens, Maintenance
	<ul style="list-style-type: none"> Analyzed and updated Caltrans accounting system to more accurately document and report actual water use. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Created water manager positions in each district. Districts 4 (Bay Area) and 7 (Los Angeles) have two water managers each because of the high number of landscaped acres. Water managers will actively manage water application to ensure conservation practices continue. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Replaced 39,000 sprinklers with more efficient sprinklers. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Replaced 368,000 linear feet of damaged irrigation pipe. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Installed theft deterrence measures at 969 locations to reduce the possibility of vandalism which could damage irrigation systems and cause excessive water use. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Installed pipelines to carry non-potable or “recycled” water to Caltrans roadside planting sites. Non-potable usage is approaching 20 percent. 		2015	Keith Robinson, Design
	<ul style="list-style-type: none"> Through the Director’s Orders, Caltrans has (or will soon accomplish): <ul style="list-style-type: none"> o Achieved 25,196 of 26,425 acres of irrigated landscaping to be under Smart Controller management, almost doubling the acreage prior to the orders. The remaining 1,229 acres of landscaping were not appropriate for Smart controllers (due to solar powered controllers already in place, temporary irrigation systems, etc.). 		2015	Keith Robinson, Design

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> ○ Converted irrigation systems to recycled or non-potable water from potable water, resulting in a reduction of 240 million gallons annually of potable water used to irrigate landscape. ○ Installed 2,838 Smart controllers (78 percent) of all irrigation controllers. 		
	<ul style="list-style-type: none"> ● Because of these efforts, Caltrans met the Governor's 20% reduction mandate and met Director Dougherty's 50% water consumption reduction goal. 	2015	Keith Robinson, Design
	<ul style="list-style-type: none"> ● In 2014, Caltrans used 4.99B gallons of water for roadside irrigation. This represents a 28% reduction in consumption from 2010 usage and a 33% reduction from 2013 usage 	2014	Keith Robinson, Design
	<ul style="list-style-type: none"> ● The 2015 Drought Action Plan focuses on identifying and managing the current infrastructure and creating statewide policies and procedures to improve the monitoring and conservation of water. The plan also focuses on implementing a goal of using non-potable water for 80% highway planting acreage. Current non-potable water usage covers 24% of landscape inventory. 	December 2015	Keith Robinson, Design
	<p>Facilities:</p> <ul style="list-style-type: none"> ● Farmers Market Plaza. The lease was renegotiated in 2015. This project has LEED-EB Silver certification and the lessor implemented measures of the CALGreen code related to indoor environmental quality and water efficiency. 	2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> ● District 6 (3502 N. Blackstone, Fresno). The new lease was signed in June 2015. The effective date of the lease is March 2016. This project is targeted to achieve LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. There is no outdoor watering at this facility. 	June 2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> ● District 5 (2885 S. Higuera, San Luis Obispo). The new lease was signed in March 2015. The effective date of the lease is July 1, 2016. This project is targeted to achieve LEED Silver certification. The lessor will be implementing measures of the CALGreen code related to indoor environmental quality and water efficiency. 	March 2015	Lance Hibben, DBFS
	<ul style="list-style-type: none"> ● Caltrans has achieved water efficiency through the installation of water efficient plumbing and irrigation fixtures and landscape planting in multiple buildings throughout the state. 	2015	HQ and Dist Facilities Managers
	<ul style="list-style-type: none"> ● 1,361 building fixtures (faucets, toilets, etc.) have been replaced with more efficient models. 	2015	HQ and Dist Facilities Managers
	<ul style="list-style-type: none"> ● In 2014 Caltrans facilities used 182 million gallons of water. This represents a reduction in consumption of 5.63% from 2010 usage of 193 million gallons and an 8.39% reduction in consumption from 2013 usage of 199 million gallons of water. See Appendix L for the Caltrans Water Conservation projects. See Appendix M for the Facilities Water Fixture Inventory. See Appendix N for the Facilities Water Usage Report. See Appendix O for Facilities Water Usage Analysis. See Appendix P for Highway Landscape Irrigation Water Use by District. 	2014	HQ and Dist Facilities Managers

		Date Status Completed /or Steps Anticipated	Caltrans Lead
Steps to Achievement & Schedule	Facilities: 11.1 Wash Rack Improvements in District 3 at South Lake Tahoe Maintenance Station to reduce water consumption by 20% or more.	By June 2016	District 3 Maintenance Facilities
	11.2 District 1 will complete a district wide water fixture retrofit at all of their facilities.	By June 2016	District 1 Maintenance Facilities
	11.3 REV Sustainability Circles. A REV Sustainability circle is a comprehensive, six-month, peer-learning program that will enable Caltrans to implement sustainability practices. The result is an implementable, customized, five-year action plan, as well as identifiable savings in the areas of energy, water, greenhouse gas emissions, waste and money. a) Current enrolled district locations include: District 4 (Oakland started in October 2015 and will complete by April 2016.	April 2016	Walter Garcia, District 4 Facilities
	District 11 (San Diego) started in October 2015 and will complete by April 2016.	April 2016	Denella Blount, D11 Facilities
	b) Future locations include District 3 (Sacramento) anticipated to start in January 2016 and run through July 2016.	July 2016	Sue Garibay, D3 Facilities
	District 8 (Inland Empire) which began February 2016 and will run through August 2016.	Aug 2016	Brenda Lopez, D8 Facilities
	Leases: 11.4 New and re-negotiated leases will encourage water efficiency measures.	Dec 2016	Lance Hibben, DBFS
	Benchmarking: 11.4 Analyze benchmarking data and determine the best water efficiency strategies to adopt going forward.	April 2016	Desiree Fox, Sustainability Program
	Facilities landscape: 11.5 Sub-meters for landscape irrigation (for buildings with landscaping) will be considered where economically feasible.	Dec 2016	Facilities Managers
12. ELECTRIC VEHICLE CHARGING STATIONS – Employee Parking (buildings only)			
Target & Timeline	Identify and pursue opportunities to provide electric vehicle charging stations and accommodate future charging infrastructure demand at employee parking facilities in new and existing buildings (EO B-18-12) (Green Building Action Plan).		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Maintenance and Operations, Steve Takigawa • Planning and Modal Programs, Coco Briseno • Finance, Norma Ortega • District Directors 		

		Date Status Completed /or Steps Anticipated	Caltrans Lead
Status	<ul style="list-style-type: none"> Caltrans has installed 38 charging stations. Director Malcolm Dougherty issued a memo directing Caltrans facility managers to encourage employee use of state-owned electric vehicle charging stations. See the memo in Appendix Q. 	October 2015	Jeremy Matsuo, Equipment
	<ul style="list-style-type: none"> DOE has a list of Caltrans EV charging stations available to employees for use when travelling to other Caltrans offices. 	2015	Jeremy Matsuo, Equipment
Steps to Achievement	12.1 66 charging stations will be installed by summer of 2016. 19 additional charging stations are pending dates of installation at pre-determined locations.	September 2016	Jeremy Matsuo, Equipment
	12.2 Plans are still in development to evaluate new and existing state-owned parking structures and parking lots to install plug-in electric vehicle charging infrastructure where most cost-effective and appropriate. See Appendix R for a list of dates for EV charger installations.	July 2016	Jeremy Matsuo, Equipment
13. ELECTRIC VEHICLE CHARGING STATIONS – State Owned Vehicles (buildings only)			
Initiative	<p>State agencies shall work with DGS and outside entities to develop an electric vehicle charging station infrastructure plan including the following:</p> <ol style="list-style-type: none"> Evaluate existing state-owned parking structures and parking lots and install plug-in electric vehicle charging infrastructure where most cost-effective and appropriate. Plan for and install appropriate cost-effective levels of plug-in electric vehicle charging infrastructure in the new construction of state-owned parking structures and parking lots. Complete the Infrastructure Plan by 2015, when the agencies are required to purchase ZEV. 		
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Administration, Cris Rojas Maintenance and Operations, Steve Takigawa Planning and Modal Programs, Coco Briseno Finance, Norma Ortega District Directors Glenn Connor (DGS) is lead on statewide effort – glenn.connor@dgs.ca.gov. 		
Status	<ul style="list-style-type: none"> There are 118 Plug-in vehicles in the fleet. 	2015	Jeremy Matsuo, Equipment
	<ul style="list-style-type: none"> There are 38 charging stations currently installed on Caltrans property. There are 85 charging stations planned to be installed. See Appendix R for a list of the charging station locations. There are also currently 4 solar electric vehicle charging stations and 7 additional locations will be installed within fiscal year 2015-2016. See Appendix S for a list of solar electric vehicle charging stations. 	2015	Jeremy Matsuo, Equipment
	<ul style="list-style-type: none"> Caltrans has 118 Plug-in vehicles in the fleet. Caltrans is currently exceeding the EO requirement. Caltrans has 60.5 ZEV (43 BEV and 17.5 PHEV) credits, with the current 10% requirement that is enough credit to purchase 605 light duty passenger fleet and not have to purchase an additional EV. 	2015	Jeremy Matsuo, Equipment

		Date Status Completed /or Steps Anticipated	Caltrans Lead
Steps to Achievement	Charging Stations & Infrastructure:		
	13.1 Infrastructure and two dual charging stations will be installed at the Sacramento Transportation Laboratory (Translab). The contract to build the infrastructure for charging stations has been resurrected and will be reviewed by an architectural engineer.	By June 2016	DES
	13.2 District 12 will install one charging station each at Batavia, Costa Mesa, Toll Road, and San Juan Capistrano Maintenance Stations.	December 2016	District 12
	13.3 District 12 will install one charging station at each Marine Way, Brea, Bolsa Chica, and Stanton Maintenance Stations.	December 2018	District 12
	13.4 Caltrans will send the list of current and planned infrastructure to DGS for contribution to the statewide. See Appendices Q and R for a list of Caltrans current and future planned infrastructure based on ZEV fleet deployment.	August 2016	Jeremy Matsuo, Equipment
Vehicles: 13.5 For ZEV and PHEV purchases, see section 17 - ZEV Fleet Purchases.			
14. ENVIRONMENTALLY PREFERABLE PURCHASING (EPP) (buildings/highways)			
Target & Timeline	State agencies shall purchase and use environmentally preferable products that have a lesser or reduced effect on human health and the environment when compared with competing goods that serve the same purpose whenever they are applicable, perform well and are cost-effective per <u>Public Contract Code 12400</u> as described in the <u>Green Building Action Plan</u> .		
Stakeholders	<ul style="list-style-type: none"> • Sustainability, Steven Cliff • Administration, Cris Rojas • Project Delivery, Karla Sutliff 		
Status	• Caltrans encourages the purchase and use of environmentally preferred products.	2015	DPAC
	• The Division of Procurement and Contracts (DPAC) has temporarily redirected resources to establish a Sustainable Purchasing Program to increase the acquisition of environmentally preferred products.	August 2015	DPAC
	• DPAC initiated partnership meetings with CalEPA's CalRecycle in October 2015 to identify ways to increase Caltrans' purchase of environmentally preferred paints.	October 2015	DPAC
Steps to Achievement	14.1 Caltrans will continue to encourage the purchase and use of environmentally preferred products.	Dec 2016	DPAC
	14.2 Caltrans will conduct an analysis of all its' acquisition activities to identify environmental, social, and economic impacts by purchasing category. The results will enable Caltrans to prioritize strategies to improve sustainable purchasing practices. DGS is performing a spend analysis that will provide an analysis of sustainability purchasing information to be analyzed by each department. DGS's spend analysis excludes purchases under \$5,000, Cal-Card purchases and construction contracts. The results will be used to update the EPP strategies. a) Phase 1: Identify product and service impacts from the point of resource extraction to the point at which Caltrans takes possession.	December 2016	DPAC

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	b) Phase 2: Identify impacts associated with product end-of-life processes. Caltrans is identifying funding for a more comprehensive spend analysis to include all purchasing and contracts to determine additional EPP strategies.	May 2017	
14.3	By June 2016, DPAC will develop strategies to increase the use of environmentally preferred products in at least one (1) of Caltrans' top product categories.	June 2016	DPAC
15. FINANCING (buildings/highways)			
Target & Timeline	State agencies shall pursue and utilize available financing and project delivery mechanisms to achieve these goals including, but not limited to: state revolving loan funds, utility On-Bill Financing (OBF), Power Purchase Agreements (PPA's), GS \$Mart, Energy Service Contractors (ESCO's), or other available programs		
Stakeholders	<ul style="list-style-type: none"> Sustainability, Steven Cliff Finance – Norma Ortega 		
Status	<ul style="list-style-type: none"> In 2009, Caltrans sold Clean Renewable Energy Bonds (CREBs). This resulted in the installation of roof mounted solar panels at 70 transportation facilities. The goal is for the 70 sites to generate over 2.4 megawatts of energy per year. 	Completed installation in 2013	Selena Kubota, DBFS
	<ul style="list-style-type: none"> The Sacramento Royal Oaks Warehouse lighting retrofit was funded 100 percent by SMUD, utilizing American Recovery and Reinvestment Act (ARRA) stimulus funds. 	January 2012	DPAC
	<ul style="list-style-type: none"> The District 8 (Inland Empire) TMC currently has a 20-year contracted PPA for solar power. 	November 2015	Thomas Ainsworth, District 8-Traffic Ops
Steps to Achievement	15.1 Caltrans Districts 2, 4, 8, and 12 plan to participate in the DGS Solar PPA . Program requirements include completion of a feasibility study to determine viable candidate locations. A list of proposed sites can be found in Appendix J .	By December 2016	District Facility Managers
	15.2 Caltrans plans to continue to pursue and use available financing and project delivery programs.	Dec 2016	Desiree Fox, Sustainability Program
16. MONITORING AND EXECUTIVE OVERSIGHT (buildings/highways)			
Target & Timeline	State agencies shall measure, monitor, report and oversee progress on measures in this Order as follows: <ol style="list-style-type: none"> Provide executive level oversight through representation of department on Sustainability Task Force which meets quarterly to oversee progress. Provide technical representation of department on Sustainable Building Working Group which oversees implementation of initiatives, meets monthly, measure results, and report findings to the Sustainability Task Force. Contact DGS for more info if not already participating in oversight groups: sustainability@dgs.ca.gov Report annual energy use reduction goals for existing buildings and leases in the annual five-year infrastructure plan. Enter building energy and water use into Energy Star Portfolio Manager. 		
Stakeholders	<ul style="list-style-type: none"> Director, Malcolm Dougherty Chief Deputy Director, Kome Ajise Sustainability Goal Sponsors:		

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> Assistant Director for Sustainability, Steven Cliff District Director, Bijan Sartipi, District 4 District Director, John Bulinski, District 8 District Director, Ryan Chamberlain, District 12 Deputy Director of Planning and Modal, Coco Briseno California State Transportation Agency, Kate White 		
Status	<ul style="list-style-type: none"> Caltrans executive management participates in the quarterly Sustainability Task Force Meetings. 	Quarterly in 2014 and 2015	Steven Cliff, Sustainability Program
	<ul style="list-style-type: none"> Energy/Environmental Sustainability Program Coordinator participates in the monthly Sustainable Building Working Group Meetings. 	Monthly in 2014 and 2015	Desiree Fox, Sustainability Program
Steps to Achievement	16.1 Continue to attend regularly scheduled meetings.	Quarterly and Monthly in 2016 and 2017	Steven Cliff/ Desiree Fox, Sustainability Program
	16.2 Provide sponsor guidance to teams working on implementation of EOs included in this report and within Caltrans Sustainability, Livability & Economy Goal.	Quarterly, Monthly and Weekly updates in 2016 and 2017	Steven Cliff & Sustainability Goal Sponsors
	16.3 Provide Bi-Annual Roadmap updates to the Caltrans Executive Board & Director and monthly updates on various individual items included in this report.	Monthly in 2016 & 2017	Steven Cliff & Sustainability Goal Sponsors
17. ZERO EMISSION VEHICLE (ZEV) FLEET PURCHASES (buildings)			
Target & Timeline	<p>Vehicle fleet to increase the number of its zero-emission vehicles through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles be zero-emission by 2015 and at least 25 percent of fleet purchases of light-duty vehicles be zero-emission by 2020 (EO B-16-12).</p> <p>1. Does not apply to vehicles with special performance requirements necessary for the protection of public safety and welfare.</p>		
Stakeholders	<ul style="list-style-type: none"> Deputy Director of Sustainability, Steven Cliff Maintenance and Operations, Steve Takigawa 		
Status	<ul style="list-style-type: none"> BEV & PHEV: In fiscal year 2012-2013, DOE purchased one (1) battery-electric vehicle (BEV) and 35 plug-in hybrid electric vehicles (PHEV) for a total of 18.5 ZEV credits. 	June 2013	Jeremy Matsuo, Equipment
	<ul style="list-style-type: none"> ZEV: DOE developed a 3-year plan for ZEV purchases to meet the short-term requirements of B-16-12. See Appendix T for the ZEV plan. 	2013	Jeremy Matsuo, Equipment
	<ul style="list-style-type: none"> BEV & PHEV: PHEV: During the 2013-14 and 2014-15 fiscal years Caltrans purchased 54 PHEVs and 65 BEVs. (In fiscal 2014-15, 14 PHEVs and 14 BEVs have been received and are being distributed to assignment locations. 5 PHEVs remain pending purchase.) 	June 2015	Jeremy Matsuo, Equipment

		Date Status Completed /or Steps Anticipated	Caltrans Lead
	<ul style="list-style-type: none"> ZEV: Caltrans has 118 Plug-in vehicles in the fleet. Caltrans is currently exceeding the EO requirement. Caltrans has 60.5 ZEV (43 BEV and 17.5 PHEV) credits, with the current 10% requirement that is enough credit to purchase 605 light duty passenger fleet vehicles and not have to purchase an additional EV. 	2015	Jeremy Matsuo, Equipment
Steps to Achievement	17.1 Caltrans anticipates meeting or exceeding EO B-16-12 in future light duty purchases. In the immediate future, light duty replacement will be decreased because of higher priority needs in heavy duty vehicles and off road equipment (in part due to CARB mandates and other safety mandates).	Dec 2016	Jeremy Matsuo, Equipment
	17.2 A vehicle replacement plan through 2020 will be developed.	By June 2016	Jeremy Matsuo, Equipment

Appendix A – Green Initiative Details

GREEN INITIATIVE DETAILS

1. Greenhouse gas emissions

- a. Reduce entity-wide greenhouse gas emissions by 10% by 2015 and 20% by 2020, measured against 2010 baseline

2. Energy

- a. Zero Net Energy
 - 50% of new facilities beginning design after 2020
 - 100% of new facilities or major renovations beginning design after 2025
 - 50% of existing building area by 2025
 - At least three state ZNE pilot projects (new, renovation, existing)
- b. Exceed Title 24 by 15% or more for buildings beginning design after July 1, 2012
- c. New and renegotiated state building leases reduce energy use where feasible
 - New building leases, where feasible, to include submeters and provide energy use into Energy Star Portfolio Manager
 - Renegotiated leases where state is sole tenant to provide energy use data into Energy Star Portfolio Manager
 - Encourage landlords to participate in utility sponsored energy conservation measures, using alternative financing
- d. Reduce grid-based energy purchased by 20% by 2018, compared w/ 2003 baseline (includes state-owned buildings and non-building grid-based purchases)
- e. State agencies to participate in demand response programs, when cost-effective and not adversely affecting agency operations
- f. On-Site renewable energy
 - New or major renovated buildings over 10,000 square feet shall use clean onsite power generation if economically feasible
 - Facilities with available open land shall consider large scale distributed generation

3. Building Design & Construction

- a. New and major renovated state buildings and build-to-suit leases over 10,000 square feet shall obtain LEED "Silver" certification or higher
 - Smaller buildings beginning design in 2013 shall meet applicable CALGREEN Tier 1 measures

4. Building Commissioning (Cx)

- a. New and existing buildings shall incorporate building commissioning
 - DGS with CEC and other agencies to establish EUI threshold targets to trigger Cx requirements for existing buildings
 - Pursue monitoring-based commissioning for facilities over 5,000 square feet for other energy intensive spaces as determined by DGS
 - New construction or major renovations over 5,000 square feet for offices or energy intensive spaces shall be commissioned

5. Existing Buildings

- a. All existing state buildings over 50,000 square feet shall complete LEED-EB certification by end of 2015 (including Energy Star rating of 75) to extent possible
- b. DGS, working with other state agencies to develop policies and guidelines for the operation and maintenance of state buildings

6. Indoor Environmental Quality

- a. Implement relevant and feasible voluntary CALGREEN code measures for healthy indoor environments
 - Divisions A4.5 and A5.5

GREEN INITIATIVE DETAILS

7. Water efficiency and conservation

- a. State agencies to reduce water use at facilities by 10% by 2015 and 20% by 2020, as measured against 2010 or earlier baseline
- b. DWR shall develop water use guidelines and criteria by January 1, 2013
- c. State agencies to use Energy Star Portfolio Manager to track water use
 - Establish water use benchmark for 2010 or earlier
 - Annual reports for water use entered into database beginning with 2013 due March 1, 2014

8. Electric vehicle charging stations (EVSE)

- a. State agencies to identify and pursue opportunities to provide EV charging stations and accommodate future charging infrastructure demand at employee parking facilities in new and existing buildings
- b. DGS, with other agencies, shall develop EVSE infrastructure plan
 - Evaluate existing state-owned parking structures & lots and install EVSE infrastructure where cost-effective and appropriate
 - Plan for and install appropriated cost-effective levels of EVSE infrastructure in new construction of state-owned parking structures and lots.

9. Environmentally Preferable Purchasing (EPP)

- a. State agencies shall purchase environmentally preferable products whenever applicable, well performing and cost effective

10. Financing

- a. State agencies shall pursue available financing and project delivery mechanisms to achieve goals including:
 - State revolving funds
 - Utility On-Bill Financing (OBF)
 - Power Purchase Agreements (PPA's)
 - GS \$Mart
 - Energy Service Contractors (ESCO's)

11. Monitoring and Executive Oversight

- a. State agencies shall verify data entries including energy use into Energy Star Portfolio Manager by facilities and individual buildings owned or leased where the state pays utilities
 - Annual report to DGS by March 1st each year including energy use, building data, onsite renewable energy and water use
- b. Agencies shall prepare annual inventories of greenhouse gas emissions and enter data into The Climate Registry's CRIS database
- c. DGS shall provide energy use information to public on public website including:
 - Energy use by state-owned facilities
 - GHG emission reduction
 - LEED certified projects
- d. Sustainable Building Task Force (Sustainability Task Force) formed to provide executive level oversight, meet quarterly and oversee progress
- e. Sustainable Building Working Group formed of technical representatives of state agencies to oversee implementation, meet monthly, measure results, and report findings to STF.

12. Zero Emission Vehicle (ZEV) Fleet purchases

- a. By 2015 10% of fleet purchases of light duty vehicles shall be ZEVs. 25% by 2025


EXECUTIVE ORDER B-18-12

4-25-2012

WHEREAS green building practices use energy, water, and materials efficiently throughout the building life cycle, enhance indoor and outdoor air quality, improve the health, productivity, and working lives of state employees, incorporate environmentally preferable products, and substantially reduce the costs and environmental impacts associated with operating State buildings; and

WHEREAS energy and water efficiency improvements in State buildings and operations save the State money and boost California's economy by investing in green technology companies and green jobs; and

WHEREAS the California Global Warming Solutions Act of 2006 requires the State to reduce greenhouse gas emissions to 1990 levels by 2020 and beyond, and the energy used in buildings accounts for the second largest contribution to California's greenhouse gas emissions.

NOW, THEREFORE, I, Edmund G. Brown Jr., Governor of the State of California, do hereby issue the following orders to become effective immediately:

IT IS HEREBY ORDERED that State agencies, departments, and other entities under my direct executive authority (State agencies) take actions to reduce entity-wide greenhouse gas emissions by at least 10% by 2015 and 20% by 2020, as measured against a 2010 baseline.

IT IS FURTHER ORDERED that all new State buildings and major renovations beginning design after 2025 be constructed as Zero Net Energy facilities with an interim target for 50% of new facilities beginning design after 2020 to be Zero Net Energy. State agencies shall also take measures toward achieving Zero Net Energy for 50% of the square footage of existing state-owned building area by 2025.

IT IS FURTHER ORDERED that State agencies continue taking measures to reduce grid-based energy purchases for State-owned buildings by at least 20% by 2018, as compared to a 2003 baseline, and reduce other non-building, grid-based retail energy purchases by 20% by 2018, as compared to a 2003 baseline.

IT IS FURTHER ORDERED that State agencies participate in "demand response" programs to obtain financial benefits for reducing peak electrical loads when called upon, to the maximum extent that is cost-effective for each State-owned or leased facility, and does not materially adversely affect agency operations.

IT IS FURTHER ORDERED that any proposed new or major renovation of State buildings larger than 10,000 square feet use clean, on-site power generation, such as solar photovoltaic, solar thermal and wind power generation, and clean back-up power supplies, if economically feasible.

IT IS FURTHER ORDERED that new or major renovated State buildings and build-to-suit leases larger than 10,000 square feet obtain LEED "Silver" certification or higher, using the applicable version of LEED.

IT IS FURTHER ORDERED that new and existing buildings incorporate building commissioning to facilitate improved and efficient building operation.

IT IS FURTHER ORDERED that State agencies identify and pursue opportunities to provide electric vehicle charging stations, and accommodate future charging infrastructure demand, at employee parking facilities in new and existing buildings.

IT IS FURTHER ORDERED that the Department of General Services work with other State agencies to develop by July 1, 2013, policies and guidelines for the operation and maintenance of State buildings to achieve operating efficiency improvements and water and resource conservation, and to continually update and incorporate these into the State Administrative Manual.

IT IS FURTHER ORDERED that State agencies implement relevant and feasible voluntary measures from Divisions A4.5 and A5.5 of the California Green Building Standards Code, to ensure healthy indoor environments for occupants.

IT IS FURTHER ORDERED that State agencies reduce overall water use at the facilities they operate by 10% by 2015 and by 20% by 2020, as measured against a 2010 baseline.

IT IS FURTHER ORDERED that State agencies purchase and use environmentally preferable products that have a lesser or reduced effect on human health and the environment when compared with competing goods that serve the same purpose whenever they are applicable, perform well, and are cost-effective per Public Contract Code section 12400.

IT IS FURTHER ORDERED that State agencies identify and pursue available financing and project-delivery mechanisms to achieve these goals.

IT IS FURTHER ORDERED that State agencies measure, monitor, report, and oversee progress on measures in this Order.

IT IS FURTHER ORDERED that State agencies implement the measures described in the accompanying

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Governor Brown Issues Statement on Global Climate Pact 12-12-2015



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Governor Brown Issues Proclamation Declaring Pearl Harbor Remembrance Day 12-06-2015



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[Green Building Action Plan](#) for facilities owned, funded, or leased by the state.

IT IS FURTHER ORDERED that Executive Order S-20-04 is rescinded immediately.

IT IS REQUESTED that entities of State government not under my direct executive authority also implement similar measures.

This Executive Order is not intended to create, and does not create, any rights or benefits, whether substantive or procedural, or enforceable at law or in equity, against the State of California or its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this Order shall be filed with the Office of the Secretary of State and that it be given widespread publicity and notice.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 25th day of April 2012.

EDMUND G. BROWN JR.
Governor of California

ATTEST:

DEBRA BOWEN
Secretary of State

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EXECUTIVE ORDER B-16-2012

3-23-2012

EXECUTIVE ORDER B-16-2012

WHEREAS California is the nation's largest market for cars and light-duty trucks; and

WHEREAS the transportation sector is the biggest contributor to California's greenhouse gas emissions and accounts for approximately 40 percent of these emissions; and

WHEREAS California should encourage the development and success of zero-emission vehicles to protect the environment, stimulate economic growth and improve the quality of life in the State; and

WHEREAS California is a leader of technological innovation, including the innovation necessary to produce commercially successful zero-emission vehicles; and

WHEREAS California attracts over half of the nation's venture capital for clean technology and ranks high among the states in the number of workers and facilities supporting the clean-car industry; and

WHEREAS California is leading the nation in enacting laws and establishing policies and programs that are reducing greenhouse gases, protecting air and water quality, promoting energy diversity and supporting low-carbon alternative fuel technologies; and

WHEREAS zero-emission vehicles provide multiple benefits in addition to reducing greenhouse gas emissions, such as reducing conventional pollutants, operating quietly and cleanly, allowing home refueling and lowering operating and fuel costs; and

WHEREAS California should support and encourage car manufacturers' plans to build and sell tens of thousands of zero-emission vehicles in California in the coming years.

NOW, THEREFORE, I, Edmund G. Brown Jr., Governor of the State of California, do hereby issue the following orders to become effective immediately:

IT IS HEREBY ORDERED that all State entities under my direction and control support and facilitate the rapid commercialization of zero-emission vehicles.

IT IS FURTHER ORDERED that the California Air Resources Board, the California Energy Commission, the Public Utilities Commission and other relevant agencies work with the Plug-in Electric Vehicle Collaborative and the California Fuel Cell Partnership to establish benchmarks to help achieve by 2015:

- The State's major metropolitan areas will be able to accommodate zero-emission vehicles, each with infrastructure plans and streamlined permitting; and
- The State's manufacturing sector will be expanding zero-emission vehicle and component manufacturing; and
- The private sector's investment in zero-emission vehicle infrastructure will be growing; and
- The State's academic and research institutions will be contributing to zero-emission vehicle research, innovation and education.

IT IS FURTHER ORDERED that these entities establish benchmarks to help achieve by 2020:

- The State's zero-emission vehicle infrastructure will be able to support up to one million vehicles; and
- The costs of zero-emission vehicles will be competitive with conventional combustion vehicles; and
- Zero-emission vehicles will be accessible to mainstream consumers; and
- There will be widespread use of zero-emission vehicles for public transportation and freight transport; and
- Transportation sector greenhouse gas emissions will be falling as a result of the switch to zero-emission vehicles; and
- Electric vehicle charging will be integrated into the electricity grid; and
- The private sector's role in the supply chain for zero-emission vehicle component development and manufacturing State will be expanding.

IT IS FURTHER ORDERED that these entities establish benchmarks to help achieve by 2025:

- Over 1.5 million zero-emission vehicles will be on California roads and their market share will be expanding; and
- Californians will have easy access to zero-emission vehicle infrastructure; and
- The zero-emission vehicle industry will be a strong and sustainable part of California's economy; and
- California's clean, efficient vehicles will annually displace at least 1.5 billion gallons of petroleum fuels.

IT IS FURTHER ORDERED that California target for 2050 a reduction of greenhouse gas emissions from the transportation sector equaling 80 percent less than 1990 levels.

IT IS FURTHER ORDERED that California's state vehicle fleet increase the number of its zero-emission vehicles through the normal course of fleet replacement so that at least 10 percent of fleet purchases of light-duty vehicles be zero-emission by 2015 and at least 25 percent of fleet purchases of light-duty vehicles be zero-emission by 2020. This directive shall not apply to vehicles that have special

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performance requirements necessary for the protection of the public safety and welfare.

This Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 23rd day of March 2012.

EDMUND G. BROWN JR.
Governor of California

ATTEST:

DEBRA BOWEN
Secretary of State

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Executive Department
State of California

EXECUTIVE ORDER B-29-15

WHEREAS on January 17, 2014, I proclaimed a State of Emergency to exist throughout the State of California due to severe drought conditions; and

WHEREAS on April 25, 2014, I proclaimed a Continued State of Emergency to exist throughout the State of California due to the ongoing drought; and

WHEREAS California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall this winter, with record low snowpack in the Sierra Nevada mountains, decreased water levels in most of California's reservoirs, reduced flows in the state's rivers and shrinking supplies in underground water basins; and

WHEREAS the severe drought conditions continue to present urgent challenges including: drinking water shortages in communities across the state, diminished water for agricultural production, degraded habitat for many fish and wildlife species, increased wildfire risk, and the threat of saltwater contamination to fresh water supplies in the Sacramento-San Joaquin Bay Delta; and

WHEREAS a distinct possibility exists that the current drought will stretch into a fifth straight year in 2016 and beyond; and

WHEREAS new expedited actions are needed to reduce the harmful impacts from water shortages and other impacts of the drought; and

WHEREAS the magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government and require the combined forces of a mutual aid region or regions to combat; and

WHEREAS under the provisions of section 8558(b) of the Government Code, I find that conditions of extreme peril to the safety of persons and property continue to exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

WHEREAS under the provisions of section 8571 of the California Government Code, I find that strict compliance with various statutes and regulations specified in this order would prevent, hinder, or delay the mitigation of the effects of the drought.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular Government Code sections 8567 and 8571 of the California Government Code, do hereby issue this Executive Order, effective immediately.



IT IS HEREBY ORDERED THAT:

1. The orders and provisions contained in my January 17, 2014 Proclamation, my April 25, 2014 Proclamation, and Executive Orders B-26-14 and B-28-14 remain in full force and effect except as modified herein.

SAVE WATER

2. The State Water Resources Control Board (Water Board) shall impose restrictions to achieve a statewide 25% reduction in potable urban water usage through February 28, 2016. These restrictions will require water suppliers to California's cities and towns to reduce usage as compared to the amount used in 2013. These restrictions should consider the relative per capita water usage of each water suppliers' service area, and require that those areas with high per capita use achieve proportionally greater reductions than those with low use. The California Public Utilities Commission is requested to take similar action with respect to investor-owned utilities providing water services.
3. The Department of Water Resources (the Department) shall lead a statewide initiative, in partnership with local agencies, to collectively replace 50 million square feet of lawns and ornamental turf with drought tolerant landscapes. The Department shall provide funding to allow for lawn replacement programs in underserved communities, which will complement local programs already underway across the state.
4. The California Energy Commission, jointly with the Department and the Water Board, shall implement a time-limited statewide appliance rebate program to provide monetary incentives for the replacement of inefficient household devices.
5. The Water Board shall impose restrictions to require that commercial, industrial, and institutional properties, such as campuses, golf courses, and cemeteries, immediately implement water efficiency measures to reduce potable water usage in an amount consistent with the reduction targets mandated by Directive 2 of this Executive Order.
6. The Water Board shall prohibit irrigation with potable water of ornamental turf on public street medians.
7. The Water Board shall prohibit irrigation with potable water outside of newly constructed homes and buildings that is not delivered by drip or microspray systems.

8. The Water Board shall direct urban water suppliers to develop rate structures and other pricing mechanisms, including but not limited to surcharges, fees, and penalties, to maximize water conservation consistent with statewide water restrictions. The Water Board is directed to adopt emergency regulations, as it deems necessary, pursuant to Water Code section 1058.5 to implement this directive. The Water Board is further directed to work with state agencies and water suppliers to identify mechanisms that would encourage and facilitate the adoption of rate structures and other pricing mechanisms that promote water conservation. The California Public Utilities Commission is requested to take similar action with respect to investor-owned utilities providing water services.

INCREASE ENFORCEMENT AGAINST WATER WASTE

9. The Water Board shall require urban water suppliers to provide monthly information on water usage, conservation, and enforcement on a permanent basis.
10. The Water Board shall require frequent reporting of water diversion and use by water right holders, conduct inspections to determine whether illegal diversions or wasteful and unreasonable use of water are occurring, and bring enforcement actions against illegal diverters and those engaging in the wasteful and unreasonable use of water. Pursuant to Government Code sections 8570 and 8627, the Water Board is granted authority to inspect property or diversion facilities to ascertain compliance with water rights laws and regulations where there is cause to believe such laws and regulations have been violated. When access is not granted by a property owner, the Water Board may obtain an inspection warrant pursuant to the procedures set forth in Title 13 (commencing with section 1822.50) of Part 3 of the Code of Civil Procedure for the purposes of conducting an inspection pursuant to this directive.
11. The Department shall update the State Model Water Efficient Landscape Ordinance through expedited regulation. This updated Ordinance shall increase water efficiency standards for new and existing landscapes through more efficient irrigation systems, greywater usage, onsite storm water capture, and by limiting the portion of landscapes that can be covered in turf. It will also require reporting on the implementation and enforcement of local ordinances, with required reports due by December 31, 2015. The Department shall provide information on local compliance to the Water Board, which shall consider adopting regulations or taking appropriate enforcement actions to promote compliance. The Department shall provide technical assistance and give priority in grant funding to public agencies for actions necessary to comply with local ordinances.
12. Agricultural water suppliers that supply water to more than 25,000 acres shall include in their required 2015 Agricultural Water Management Plans a detailed drought management plan that describes the actions and measures the supplier will take to manage water demand during drought. The Department shall require those plans to include quantification of water supplies and demands for 2013, 2014, and 2015 to the extent data is available. The Department will provide technical assistance to water suppliers in preparing the plans.

13. Agricultural water suppliers that supply water to 10,000 to 25,000 acres of irrigated lands shall develop Agricultural Water Management Plans and submit the plans to the Department by July 1, 2016. These plans shall include a detailed drought management plan and quantification of water supplies and demands in 2013, 2014, and 2015, to the extent that data is available. The Department shall give priority in grant funding to agricultural water suppliers that supply water to 10,000 to 25,000 acres of land for development and implementation of Agricultural Water Management Plans.
14. The Department shall report to Water Board on the status of the Agricultural Water Management Plan submittals within one month of receipt of those reports.
15. Local water agencies in high and medium priority groundwater basins shall immediately implement all requirements of the California Statewide Groundwater Elevation Monitoring Program pursuant to Water Code section 10933. The Department shall refer noncompliant local water agencies within high and medium priority groundwater basins to the Water Board by December 31, 2015, which shall consider adopting regulations or taking appropriate enforcement to promote compliance.
16. The California Energy Commission shall adopt emergency regulations establishing standards that improve the efficiency of water appliances, including toilets, urinals, and faucets available for sale and installation in new and existing buildings.

INVEST IN NEW TECHNOLOGIES

17. The California Energy Commission, jointly with the Department and the Water Board, shall implement a Water Energy Technology (WET) program to deploy innovative water management technologies for businesses, residents, industries, and agriculture. This program will achieve water and energy savings and greenhouse gas reductions by accelerating use of cutting-edge technologies such as renewable energy-powered desalination, integrated on-site reuse systems, water-use monitoring software, irrigation system timing and precision technology, and on-farm precision technology.

STREAMLINE GOVERNMENT RESPONSE

18. The Office of Emergency Services and the Department of Housing and Community Development shall work jointly with counties to provide temporary assistance for persons moving from housing units due to a lack of potable water who are served by a private well or water utility with less than 15 connections, and where all reasonable attempts to find a potable water source have been exhausted.
19. State permitting agencies shall prioritize review and approval of water infrastructure projects and programs that increase local water supplies, including water recycling facilities, reservoir improvement projects, surface water treatment plants, desalination plants, stormwater capture, and greywater systems. Agencies shall report to the Governor's Office on applications that have been pending for longer than 90 days.

20. The Department shall take actions required to plan and, if necessary, implement Emergency Drought Salinity Barriers in coordination and consultation with the Water Board and the Department of Fish and Wildlife at locations within the Sacramento - San Joaquin delta estuary. These barriers will be designed to conserve water for use later in the year to meet state and federal Endangered Species Act requirements, preserve to the extent possible water quality in the Delta, and retain water supply for essential human health and safety uses in 2015 and in the future.
21. The Water Board and the Department of Fish and Wildlife shall immediately consider any necessary regulatory approvals for the purpose of installation of the Emergency Drought Salinity Barriers.
22. The Department shall immediately consider voluntary crop idling water transfer and water exchange proposals of one year or less in duration that are initiated by local public agencies and approved in 2015 by the Department subject to the criteria set forth in Water Code section 1810.
23. The Water Board will prioritize new and amended safe drinking water permits that enhance water supply and reliability for community water systems facing water shortages or that expand service connections to include existing residences facing water shortages. As the Department of Public Health's drinking water program was transferred to the Water Board, any reference to the Department of Public Health in any prior Proclamation or Executive Order listed in Paragraph 1 is deemed to refer to the Water Board.
24. The California Department of Forestry and Fire Protection shall launch a public information campaign to educate the public on actions they can take to help to prevent wildfires including the proper treatment of dead and dying trees. Pursuant to Government Code section 8645, \$1.2 million from the State Responsibility Area Fire Prevention Fund (Fund 3063) shall be allocated to the California Department of Forestry and Fire Protection to carry out this directive.
25. The Energy Commission shall expedite the processing of all applications or petitions for amendments to power plant certifications issued by the Energy Commission for the purpose of securing alternate water supply necessary for continued power plant operation. Title 20, section 1769 of the California Code of Regulations is hereby waived for any such petition, and the Energy Commission is authorized to create and implement an alternative process to consider such petitions. This process may delegate amendment approval authority, as appropriate, to the Energy Commission Executive Director. The Energy Commission shall give timely notice to all relevant local, regional, and state agencies of any petition subject to this directive, and shall post on its website any such petition.

26. For purposes of carrying out directives 2–9, 11, 16–17, 20–23, and 25, Division 13 (commencing with section 21000) of the Public Resources Code and regulations adopted pursuant to that Division are hereby suspended. This suspension applies to any actions taken by state agencies, and for actions taken by local agencies where the state agency with primary responsibility for implementing the directive concurs that local action is required, as well as for any necessary permits or approvals required to complete these actions. This suspension, and those specified in paragraph 9 of the January 17, 2014 Proclamation, paragraph 19 of the April 25, 2014 proclamation, and paragraph 4 of Executive Order B-26-14, shall remain in effect until May 31, 2016. Drought relief actions taken pursuant to these paragraphs that are started prior to May 31, 2016, but not completed, shall not be subject to Division 13 (commencing with section 21000) of the Public Resources Code for the time required to complete them.
27. For purposes of carrying out directives 20 and 21, section 13247 and Chapter 3 of Part 3 (commencing with section 85225) of the Water Code are suspended.
28. For actions called for in this proclamation in directive 20, the Department shall exercise any authority vested in the Central Valley Flood Protection Board, as codified in Water Code section 8521, et seq., that is necessary to enable these urgent actions to be taken more quickly than otherwise possible. The Director of the Department of Water Resources is specifically authorized, on behalf of the State of California, to request that the Secretary of the Army, on the recommendation of the Chief of Engineers of the Army Corps of Engineers, grant any permission required pursuant to section 14 of the Rivers and Harbors Act of 1899 and codified in section 48 of title 33 of the United States Code.
29. The Department is directed to enter into agreements with landowners for the purposes of planning and installation of the Emergency Drought Barriers in 2015 to the extent necessary to accommodate access to barrier locations, land-side and water-side construction, and materials staging in proximity to barrier locations. Where the Department is unable to reach an agreement with landowners, the Department may exercise the full authority of Government Code section 8572.
30. For purposes of this Executive Order, chapter 3.5 (commencing with section 11340) of part 1 of division 3 of the Government Code and chapter 5 (commencing with section 25400) of division 15 of the Public Resources Code are suspended for the development and adoption of regulations or guidelines needed to carry out the provisions in this Order. Any entity issuing regulations or guidelines pursuant to this directive shall conduct a public meeting on the regulations and guidelines prior to adopting them.

31. In order to ensure that equipment and services necessary for drought response can be procured quickly, the provisions of the Government Code and the Public Contract Code applicable to state contracts, including, but not limited to, advertising and competitive bidding requirements, are hereby suspended for directives 17, 20, and 24. Approval by the Department of Finance is required prior to the execution of any contract entered into pursuant to these directives.

This Executive Order is not intended to, and does not, create any rights or benefits, substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 1st day of April 2015.

EDMUND G. BROWN JR.
Governor of California

ATTEST:

ALEX PADILLA
Secretary of State





GOVERNOR BROWN ESTABLISHES MOST AMBITIOUS GREENHOUSE GAS REDUCTION TARGET IN NORTH AMERICA

4-29-2015

New California Goal Aims to Reduce Emissions 40 Percent Below 1990 Levels by 2030

SACRAMENTO - Governor Edmund G. Brown Jr. today issued an executive order to establish a California greenhouse gas reduction target of 40 percent below 1990 levels by 2030 - the most aggressive benchmark enacted by any government in North America to reduce dangerous carbon emissions over the next decade and a half.

"With this order, California sets a very high bar for itself and other states and nations, but it's one that must be reached - for this generation and generations to come," said Governor Brown.

This executive action sets the stage for the important work being done on climate change by the Legislature.

The Governor's executive order aligns California's greenhouse gas reduction targets with those of leading international governments ahead of the United Nations Climate Change Conference in Paris later this year. The 28-nation European Union, for instance, set the same target for 2030 just last October.

California is on track to meet or exceed the current target of reducing greenhouse gas emissions to 1990 levels by 2020, as established in the California Global Warming Solutions Act of 2006 (AB 32). California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the ultimate goal of reducing emissions 80 percent under 1990 levels by 2050. This is in line with the scientifically established levels needed in the U.S. to limit global warming below 2 degrees Celsius - the warming threshold at which scientists say there will likely be major climate disruptions such as super droughts and rising sea levels.

World Leaders React

United Nations Framework Convention on Climate Change Executive Secretary Christiana Figueres: "California and Governor Brown have clearly understood, internalised and articulated the science of climate change and today have aligned the state to the growing global understanding of the step changes and strategies needed over the coming years and decades. Resolving climate change requires a swift peaking of emissions and a deep decarbonisation of the global economy by the second half of the century. California's announcement is a realisation and a determination that will gladly resonate with other inspiring actions within the United States and around the globe. It is yet another reason for optimism in advance of the UN climate conference in Paris in December."

World Bank Group President Jim Yong Kim: "Four consecutive years of exceptional drought has brought home the harsh reality of rising global temperatures to the communities and businesses of California. There can be no substitute for aggressive national targets to reduce harmful greenhouse emissions, but the decision today by Governor Brown to set a 40 percent reduction target for 2030 is an example of climate leadership that others must follow."

Premier of Ontario, Canada Kathleen Wynne: "I applaud Governor Brown's continued leadership on climate change. This shows the important role that sub-national governments can play in shaping a strong global agreement on climate change later this year in Paris."

Former New York Mayor Michael Bloomberg: "California's 2030 goal to reduce carbon emissions is not only bold, it's necessary - for the economy and our future."

NextGen Climate Founder Tom Steyer: "When it comes to climate change, California has emerged as a global leader - proving that we don't have to choose between a healthy environment and a strong economy. Today Governor Brown took that leadership to the next level. By setting an ambitious and achievable target to reduce emissions of climate-altering pollutants 40 percent by 2030, Governor Brown is setting a course that will build upon the hundreds of thousands of good paying advanced energy jobs in California, improve the health and wellbeing of Californians and continue our global leadership to solve the greatest challenge of our generation."

Princeton University Professor Michael Oppenheimer: "Governor Brown's ground-breaking commitment not only shows that solving the climate problem goes hand-in-hand with economic growth and technology leadership, but points the way toward a climate solution for other states and the world."

Climate Adaptation

The executive order also specifically addresses the need for climate adaptation and directs state government to:

- Incorporate climate change impacts into the state's Five-Year Infrastructure Plan;
- Update the Safeguarding California Plan - the state climate adaptation strategy - to identify how climate change will affect California infrastructure and industry and what actions the state can take to reduce the risks posed by climate change;
- Factor climate change into state agencies' planning and investment decisions; and

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- Implement measures under existing agency and departmental authority to reduce greenhouse gas emissions.

California's Response to Climate Change

In his [inaugural address](#) earlier this year, Governor Brown announced that within the next 15 years, California will increase from one-third to 50 percent our electricity derived from renewable sources; reduce today's petroleum use in cars and trucks by up to 50 percent; double the efficiency savings from existing buildings and make heating fuels cleaner; reduce the release of methane, black carbon and other potent pollutants across industries; and manage farm and rangelands, forests and wetlands so they can store carbon.

Since taking office, Governor Brown has signed accords to fight climate change with leaders from [Mexico](#), [China](#), [Canada](#), [Japan](#), [Israel](#) and [Peru](#). The Governor also [issued a groundbreaking call](#) to action with hundreds of world-renowned researchers and scientists - called the [consensus statement](#) - which translates key scientific climate findings from disparate fields into one unified document. The impacts of climate change are already being felt in California and will disproportionately impact the state's most vulnerable populations.

The text of the executive order is below:

EXECUTIVE ORDER B-30-15

WHEREAS climate change poses an ever-growing threat to the well-being, public health, natural resources, economy, and the environment of California, including loss of snowpack, drought, sea level rise, more frequent and intense wildfires, heat waves, more severe smog, and harm to natural and working lands, and these effects are already being felt in the state; and

WHEREAS the Intergovernmental Panel on Climate Change concluded in its Fifth Assessment Report, issued in 2014, that "warming of the climate system is unequivocal, and since the 1950s, many of the observed changes are unprecedented over decades to millennia" and that "continued emission of greenhouse gases will cause further warming and long-lasting changes in all components of the climate system, increasing the likelihood of severe, pervasive and irreversible impacts for people and ecosystems;" and

WHEREAS projections of climate change show that, even under the best-case scenario for global emission reductions, additional climate change impacts are inevitable, and these impacts pose tremendous risks to the state's people, agriculture, economy, infrastructure and the environment; and

WHEREAS climate change will disproportionately affect the state's most vulnerable citizens; and

WHEREAS building on decades of successful actions to reduce pollution and increase energy efficiency the California Global Warming Solutions Act of 2006 placed California at the forefront of global and national efforts to reduce the threat of climate change; and

WHEREAS the Intergovernmental Panel on Climate Change has identified limiting global warming to 2 degrees Celsius or less by 2050 as necessary to avoid potentially catastrophic climate change impacts, and remaining below this threshold requires accelerated reductions of greenhouse gas emissions; and

WHEREAS California has established greenhouse gas emission reduction targets to reduce greenhouse gas emissions to 1990 levels by 2020 and further reduce such emissions to 80 percent below 1990 levels by 2050; and

WHEREAS setting an interim target of emission reductions for 2030 is necessary to guide regulatory policy and investments in California in the midterm, and put California on the most cost-effective path for long term emission reductions; and

WHEREAS all agencies with jurisdiction over sources of greenhouse gas emissions will need to continue to develop and implement emissions reduction programs to reach the state's 2050 target and attain a level of emissions necessary to avoid dangerous climate change; and

WHEREAS taking climate change into account in planning and decision making will help the state make more informed decisions and avoid high costs in the future.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, in accordance with the authority vested in me by the Constitution and statutes of the State of California, in particular Government Code sections 8567 and 8571 of the California Government Code, do hereby issue this Executive Order, effective immediately

IT IS HEREBY ORDERED THAT:

1.A new interim statewide greenhouse gas emission reduction target to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050.

2.All state agencies with jurisdiction over sources of greenhouse gas emissions shall implement measures, pursuant to statutory authority, to achieve reductions of greenhouse gas emissions to meet the 2030 and 2050 greenhouse gas emissions reductions targets.

3.The California Air Resources Board shall update the Climate Change Scoping Plan to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

4.The California Natural Resources Agency shall update every three years the state's climate adaptation strategy, Safeguarding California, and ensure that its provisions are fully implemented. The Safeguarding California plan will:

- Identify vulnerabilities to climate change by sector and regions, including, at a minimum, the following sectors: water, energy, transportation, public health, agriculture, emergency services, forestry, biodiversity and habitat, and ocean and coastal resources;
- Outline primary risks to residents, property, communities and natural systems from these vulnerabilities, and identify priority actions needed to reduce these risks; and

-Identify a lead agency or group of agencies to lead adaptation efforts in each sector.

5.Each sector lead will be responsible to:

-Prepare an implementation plan by September 2015 to outline the actions that will be taken as identified in Safeguarding California, and
-Report back to the California Natural Resources Agency by June 2016 on actions taken.

6.State agencies shall take climate change into account in their planning and investment decisions, and employ full life-cycle cost accounting to evaluate and compare infrastructure investments and alternatives.

7.State agencies' planning and investment shall be guided by the following principles

-Priority should be given to actions that both build climate preparedness and reduce greenhouse gas emissions;
-Where possible, flexible and adaptive approaches should be taken to prepare for uncertain climate impacts;
-Actions should protect the state's most vulnerable populations; and
-Natural infrastructure solutions should be prioritized.

8.The state's Five-Year Infrastructure Plan will take current and future climate change impacts into account in all infrastructure projects

9.The Governor's Office of Planning and Research will establish a technical, advisory group to help state agencies incorporate climate change impacts into planning and investment decisions.

10.The state will continue its rigorous climate change research program focused on understanding the impacts of climate change and how best to prepare and adapt to such impacts.

This Executive Order is not intended to create, and does not, create any rights or benefits, whether substantive or procedural, enforceable at law or in equity, against the State of California, its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this Order be filed in the Office of the Secretary of State and that widespread publicity and notice be given to this Order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 29th day of April 2015.

EDMUND G. BROWN JR.
Governor of California

ATTEST:

ALEX PADILLA
Secretary of State

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EXECUTIVE ORDER B-32-15

7-17-2015

EXECUTIVE ORDER B-32-15

WHEREAS California's vast transportation system connects 38 million residents and supports a vibrant economy with \$2.2 trillion in annual gross domestic product; and

WHEREAS California's complex freight transportation system is responsible for one-third of the State's economy and jobs, with freight-dependent industries accounting for over \$700 billion in revenue and over 5 million jobs in 2013; and

WHEREAS California is the largest gateway for international trade and domestic commerce in the nation, with an interconnected system of ports, railroads, highways, and roads that allow goods from around the world to move throughout the state; and

WHEREAS significant investments in freight infrastructure are necessary to ensure the continued economic competitiveness of our state; and

WHEREAS California has recently set new, aggressive targets for reducing pollution, including decreasing greenhouse gas emissions 40% below 1990 levels by 2030 and cutting petroleum use in cars and trucks by up to half from current levels by 2030 and established strategies to prepare for climate change; and

WHEREAS freight transportation in California generates a high portion of local pollution in parts of the state with poor air quality and an increasing contribution of greenhouse gas emissions; and

WHEREAS the policies and investments of state transportation and environmental agencies can influence California's freight system to become more efficient, competitive, and environmentally sustainable; and

WHEREAS future investments to upgrade freight vehicles and infrastructure should utilize technologies, energy sources, and fuels that enable greater transportation efficiency while reducing community and environmental impacts.

NOW, THEREFORE, I, EDMUND G. BROWN JR., Governor of the State of California, by the authority vested in me by the Constitution and statutes of the State of California, do hereby order the following, effective immediately:

IT IS HEREBY ORDERED that the Secretary of the California State Transportation Agency, the Secretary of the California Environmental Protection Agency, and the Secretary of the Natural Resources Agency lead other relevant state departments including the California Air Resources Board, the California Department of Transportation, the California Energy Commission, and the Governor's Office of Business and Economic Development to develop an integrated action plan by July 2016 that establishes clear targets to improve freight efficiency, transition to zero-emission technologies, and increase competitiveness of California's freight system.

IT IS FURTHER ORDERED that this action plan identify state policies, programs, and investments to achieve these targets, and that the plan be informed by existing state agency strategies, including the California Freight Mobility Plan, Sustainable Freight Pathways to Zero and Near-Zero Emissions, Integrated Energy Policy Report, as well as broad stakeholder input.

IT IS FURTHER ORDERED that to ensure progress towards a sustainable freight system, these entities initiate work this year on corridor-level freight pilot projects within the State's primary trade corridors that integrate advanced technologies, alternative fuels, freight and fuel infrastructure, and local economic development opportunities.

IT IS FURTHER ORDERED that agencies under my direct executive authority cooperate in the implementation of this Order, and it is requested that other public and private entities assist in its development and implementation as appropriate.

This Executive Order is not intended to create, and does not create, any rights or benefits, whether substantive or procedural, or enforceable at law or in equity, against the State of California or its agencies, departments, entities, officers, employees, or any other person.

I FURTHER DIRECT that as soon as hereafter possible, this Order shall be filed with the Office of the Secretary of State and that widespread publicity and notice be given to this Order.

IN WITNESS WHEREOF I have hereunto set my hand and caused the Great Seal of the State of California to be affixed this 16th day of July 2015.

EDMUND G. BROWN JR.
 Governor of California

Latest News


Governor Brown Declares State of Emergency in San Bernardino County 12-18-2015



Governor Brown Announces Appointments 12-18-2015



Governor Brown's Press Office 2016 Credentialing Information 12-18-2015



Governor Brown Announces Appointments 12-14-2015



Governor Brown Issues Statement on Global Climate Pact 12-12-2015



Photo Release: Day 5: UN Climate Change Conference: Governor Brown, German Government Announce 43 New Signatories to Under 2 MOU Climate Pact 12-09-2015



Photo Release: Day 4: UN Climate Change Conference: Governor Brown Highlights Bold Subnational Action at COP 21 Events 12-08-2015



Photo Release: Day 3: UN Climate Change Conference: Governor Brown Meets with UN Secretary-General Ban Ki-Moon, Partners with Chinese, French National Governments 12-07-2015



Governor Brown Issues Proclamation Declaring Pearl Harbor Remembrance Day 12-06-2015



Photo Release: Day 2: UN Climate Change Conference: Governor Brown, Ambassador Hartley Welcome 15 New Signatories to Under 2 MOU Climate Pact 12-06-2015

ATTEST:

ALEX PADILLA
Secretary of State

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SAM – INFORMATION TECHNOLOGY
(California Department of Technology)

BASIC POLICY
(Revised 6/2015)

4819.31

Each Agency/state entity is required to:

1. Establish and maintain a Technology Recovery Plan, so that it will be able to protect its information assets in the event of a disaster or serious disruption to its operations, and submit the plan or its update to the California Information Security Office (CISO) as outlined in the Technology Recovery Plan Quarterly Reporting Schedule ([SIMM Section 05](#)). See SAM Section [5325](#).
2. Establish an ongoing information management strategic planning process to support the accomplishment of its overall business strategy (e.g., its strategy to carry out its programmatic mission) and submit its strategic plan to the Department of Technology for approval. See SAM Section [4900.2](#).
3. Adopt standards for an Agency/state entity IT infrastructure consistent with SAM Section [4900.1](#).
4. Prepare annually an IT Capital Plan for long-term planning of the state's strategic IT investments. See SAM Section [4904](#).
5. Use the California Project Management Methodology ([CA-PMM](#)) as described in SAM Section [4910](#) for managing all IT projects.
6. Implement their Enterprise Architecture in accordance with the guidelines and instructions included in [SIMM Section 58](#).
7. Conduct a study for each proposed IT project (development or acquisition) and obtain approval through the Project Approval Lifecycle from the Department of Technology or from the Agency/state entity director (if approval authority has been delegated) before expending any resources on the project. See SAM Sections [4819.34-4819.35](#).

(Continued)

**SAM – INFORMATION TECHNOLOGY
(California Department of Technology)**

(Continued)
BASIC POLICY
(Revised 6/2015)

4819.31 (Cont. 1)

8. Submit all Formal IT Solicitations, (as defined in the State Contracting Manual ([SCM](#)), Volume 3, Chapter 4, Section B1.0) to the Department of Technology for review prior to release to the public. Review of Informal IT Solicitations is delegated to Agencies/state entities. The following materials shall be included with the Formal IT Solicitation package:
 - a. A completed and signed *Formal Information Technology Solicitation Executive Approval Transmittal*, which is available in [SIMM Section 28A](#).
 - b. All sections, appendices, attachments and exhibits comprising the Formal IT Solicitation.

Review of Formal IT Solicitations is in addition to existing IT-related reporting and approval requirements. The instructions and time frame for submitting Formal IT Solicitations to the Department of Technology for review is specified in [SIMM Section 05A](#).

For addenda focusing on Technical or Functional Requirements within the solicitation that are specific to the California IT Strategic Plan, alignment with the Statewide Enterprise Architecture, or alignment with IT reporting and approval requirements, the Department of Technology, and with the issuing Agency/state entity, for delegated procurements, prior to release.

Agencies/state entities shall not be relieved of responsibility for major scope deviations within the Formal IT Solicitations or addenda reviewed by the Department of Technology unless:

- a. The Agency/state entity has specifically informed the Department of Technology- IT Project Oversight Division (ITPOD) in writing of such major scope deviations at the time of submittal; and
- b. Department of Technology has given written approval of the specific deviation.

(Continued)

**SAM – INFORMATION TECHNOLOGY
(California Department of Technology)**

(Continued)

BASIC POLICY
(Revised 6/2015)

4819.31 (Cont. 2)

9. Manage IT projects following the established IT Project Oversight Framework ([SIMM Section 45](#)) minimum requirements, to ensure that projects are completed on-time, within budget, and that they accomplish the objectives defined in their Stage 1 Business Analysis.
10. Protect the integrity of its information management capabilities and databases and ensure the security and confidentiality of information it maintains.
11. Establish an acquisition planning process for IT project acquisition of IT goods and services as determined by the Department of Technology.
12. Agencies/state entities shall implement power management practices on all desktop and laptop computing devices, thin client devices, printers, copiers, scanners, and monitors. During hours of normal operation, devices which are not in use for 30 minutes shall automatically go into an energy-saving mode. Devices shall be shut down at the end of the normal business day.

In addition, Agencies/state entities shall fully implement power management software for desktop and laptop devices by December 31, 2010, or six months after the 2010-11 Budget has been enacted, whichever is later. Agencies/state entities shall also implement standby and shutdown practices for all devices within the scope of this policy beginning December 31, 2010.

Exemptions must be approved in writing by the Agency Information Officer (AIO) or the state entity's Chief Information Officer (CIO). Exemptions are limited to:

- Devices which must remain in active mode to meet state operational needs. An example of a valid exemption would be a desktop computer and monitor utilized to manage batch programs 24 hours per day, seven days per week.
- Facilities with electrical service bundled-in with facility lease contracts where Agencies/state entities would not likely receive offsetting benefits from acquired power management software. In this instance, compliance can be achieved through the use of standard operating systems functionality (e.g., Windows).

If an Agency/state entity fails to meet these requirements, the Agency/state entity will be required to obtain Department of Technology approval before expending any resources on IT projects.

The project approval process is described in SAM Section 4819.34

MANAGEMENT MEMO

NUMBER:
MM 14-05

SUBJECT:

**INDOOR ENVIRONMENTAL QUALITY: NEW,
RENOVATED, AND EXISTING BUILDINGS**

DATE ISSUED:
MAY 21, 2014

EXPIRES:
UNTIL RESCINDED

REFERENCES: EXECUTIVE ORDER B-18-12 AND THE GREEN BUILDING ACTION PLAN;
CALGREEN (DIVISIONS 4.5 AND 5.5 MANDATORY-ENVIRONMENTAL QUALITY;
APPENDICES; DIVISIONS 4.5 AND 5.5 VOLUNTARY-ENVIRONMENTAL QUALITY)

ISSUING AGENCY:
**DEPARTMENT OF GENERAL
SERVICES**

Purpose

This Management Memo (MM) announces policy and provides direction to state agencies that build, lease and operate state buildings, on reducing indoor pollutant levels and ensuring healthful indoor environments for occupants in new, renovated, leased, and existing state buildings, as directed in Governor's [Executive Order B-18-12](#) and the [Green Building Action Plan](#).

Policy

State agencies shall implement measures to ensure a healthful indoor environment for their building occupants as follows:

New/Renovated State Buildings: State agencies shall implement mandatory measures and relevant and feasible voluntary measures of the *California Green Building Standards Code (CALGreen)*, Part 11, related to indoor environmental quality (IEQ) that are in effect at the time of new construction or alteration. The information is available at <http://www.bsc.ca.gov/home/calgreen.aspx>¹.

Existing State Buildings: When accomplishing Alterations, Modifications, and Maintenance Repairs and when relevant and feasible, state agencies shall implement the mandatory and voluntary measures of the *California Green Building Standards Code (CALGreen)*, Part 11, related to indoor environmental quality.

New and Renegotiated State Leased Buildings:
The Department of General Services (DGS) will encourage Lessors to implement measures of the *California Green Building Standards Code (CALGreen)* related to indoor environmental quality, where economically feasible, for all new or renegotiated leases.

Who is Affected

All state agencies under the definition of Government Code Section 11000: (a) As used in this title, "state agency" includes every state office, officer, department, division, bureau, board, and commission, managing leased or state-owned buildings; planning alterations of existing buildings; or involved in the construction of new state buildings. It is requested that entities of State government not under the Governor's direct executive authority also implement similar measures.

Background

In April 2012, the Governor issued EO B-18-12 directing state agencies to implement measures, including IEQ measures, to ensure that state buildings are green and sustainable. The Governor also released the Green Building Action Plan that includes direction for applying the EO to existing buildings. Also, the state has developed, and periodically updates the [California Green Building Standards Code \(California Code of Regulations Title 24, Part 11 \[CALGreen\]\)](#), which sets baseline requirements and also provides voluntary “reach” measures for green buildings in California.

Healthful IEQ not only protects the health of building occupants, but has been shown to directly affect workers’ productivity. Healthful IEQ is achieved only through proper and informed building design, construction, and ongoing maintenance and operation.

Definitions

For the purposes of this MM, the following definitions are used:

- **Alterations** - Any construction or renovation to an existing structure, other than repair, for the purpose of maintenance or addition.
 - **Modifications and Maintenance Repairs** - Making alterations to an existing structure such that it will be better suited to current needs. This type of work may involve changing the use of interior space by repositioning walls, replacing fixtures, or other such modifications under the \$200,000 threshold triggering *CALGreen* compliance.
-

Ensuring a Healthful Indoor Environment

There are major steps agencies can take to ensure a healthful indoor environment:

1. Use indoor products and materials that emit little or no harmful chemicals;
2. Provide appropriate ventilation, filtration and proper Heating, Ventilating, and Air Conditioning (HVAC) equipment maintenance;
3. Prevent water intrusion and the growth of mold;
4. Implement line of sight and “daylighting” for new buildings; and
5. Solicit feedback from tenants every two years.

Resources for implementing these steps are provided below.

Indoor Products and Materials

1. **Use Indoor Products and Materials That Emit Little or No Harmful Chemicals.**

Building Materials

- a) **Building Materials**
- i) Use adhesives, sealants, caulks, paints, coatings, and aerosol paints and coatings that meet the volatile organic chemical (VOC) content limits specified in *CALGreen* (Sections 4.504.2.1 through 4.504.2.4, and 5.504.4.1 through 5.504.4.3.1).

Continued

**Indoor Products
and Materials
Building Materials
(Cont.)**

- ii) Use carpet systems, carpet cushions, composite wood products, resilient (e.g., vinyl) flooring systems, and thermal insulation, acoustical ceilings and wall panels that meet the VOC emission limits specified in *CALGreen* (Sections 4.504.3 through 4.504.5, 5.504.4.4 through 5.504.4.6, A4.504.1 through A4.504.3, and A5.504.4.5.1 through A5.504.4.9.1).

**Furnishings and
Seating**

- b) Furnishings and Seating
Use office furniture and seating that complies with either:
- i. The DGS' Purchasing Standard and Specifications (*Technical Environmental Bid Specification 1-09-71-52*, Section 4.7) or
 - ii. The American Society of Heating, Refrigerating and Air-Conditioning Engineers' (ASHRAE) *Standard 189.1-2011* (Section 8.4.2.5).
 - iii. CALPIA manufacturing and associated products are compliant with the DGS' Purchasing Standard and Specifications (*Technical Environmental Bid Specification 1-09-71-52*)

Cleaning Products

- c) Cleaning Products:
Use cleaning products that are low emitting and meet Green Seal (GS) Standard GS-37, *Cleaning Products for Industrial and Institutional Use*. CALPIA offers GS certified cleaning products at: <http://catalog.pia.ca.gov>

For relevant building types/uses, consider:

- GS-53, *Specialty Cleaning Products for Industrial/Institutional Use*
- GS-8, *Cleaning Products for Household Use*, and
- GS-52, *Specialty Cleaning Products for Household Use*

All GS standards can be found at:

<http://www.green seal.org/GreenBusiness/Standards.aspx>

**Cleaning
Procedures**

- d) Cleaning Procedures:
- i. Specify, use and properly maintain effective vacuum cleaners that meet the Carpet and Rug Institute's TM 113 – 110901, *Laboratory Test Procedure for Quantifying Respirable Particulate From Vacuuming Carpet*. Information can be found at: http://www.carpet-rug.org/documents/technical_bulletins/Test_Method_113.pdf).
 - ii. Maintain entryways as specified in *CALGreen* (Section A5.504.5.1).
 - iii. Use non-chemical cleaning methods where feasible. Minimize the use of chemicals when cleaning floor surfaces.
 - iv. Follow the cleaning procedures of GS-42, *Commercial and Institutional Cleaning Services*.
 - v. Follow the Carpet and Rug Institute's *Carpet Maintenance Guidelines for Commercial Applications*. See <http://www.carpet-rug.org/commercial-customers/cleaning-and-maintenance/index.cfm>).

HVAC Operation and Maintenance 2. **Provide Appropriate Ventilation, Filtration, and HVAC Equipment Maintenance.**

Existing Buildings

- a. Existing Buildings – Maintenance and Operation
- i. Operate HVAC systems continuously during work hours and provide no less than the required minimum outdoor air requirements in effect when the building permit was issued, or if no building permit was issued, when the building was designed, constructed or renovated. Please refer to Cal-OSHA's Title 8 regulations, Section §5142: Mechanically Driven Heating, Ventilating and Air-Conditioning (HVAC) Systems to Provide Minimum Building Ventilation, at <http://www.dir.ca.gov/title8/5142.html>.
 - ii. Inspect HVAC systems at least annually; all HVAC inspections and maintenance shall be documented in writing (as required by Title 8, Section 5142). Annual inspections shall also include:
 - Verification of minimum outdoor airflows using properly calibrated hand-held airflow measuring instruments.
 - Confirmation that air filters are clean and replaced according to the manufacturer's specified interval or more frequently as needed based on specific local or seasonal conditions. Use high Minimum Efficiency Reporting Value (MERV) filters as specified below.
 - Verify that outdoor dampers, actuators, and associated linkages operate properly.
 - Check the condition of all accessible heat exchanger surfaces for fouling and microbial growth, and take action as needed.
 - Check condensate drain pans for proper drainage and possible microbial growth, and take action as needed to correct and to prevent future drain blockages and microbial growth.
 - To the extent accessible, inspect the first 20 feet of all lined ductwork downstream of cooling coils for visible microbial growth. If microbial growth is found, correct and take action to prevent future growth.
 - Ensure that cooling towers are properly maintained and records of chemical treatment of cooling tower water are kept. Cooling tower plume discharges closer than 25 feet to any building intake shall be retrofitted where possible to meet the 25 foot requirement.
 - Building managers shall develop a comprehensive HVAC preventative maintenance program.

Continued

**HVAC Operation
and Maintenance
Existing Buildings
(Cont.)**

- iii. Where feasible, use filters with a MERV rating of no less than 11, as specified in Section A5.504.5.3.1 of *CALGreen*. Existing HVAC systems incapable of accommodating increased pressure drops associated with the 11 MERV rating shall use the highest MERV rating that their fan(s) can accommodate while providing the design airflows. To the extent possible, all fan change-outs shall be sized to accommodate MERV 13 filters.
- iv. Provide ongoing factory training for stationary engineers on proper operation and maintenance of all new and existing equipment, as well as all building management systems.
- v. Initiate a computer-based preventive maintenance program for all HVAC equipment (see DGS' [California Best Practices Manual, Section 2.3.5](#) for a description of the computerized maintenance management system).
- vi. Provide specialized air treatment for buildings in areas where air quality standards are routinely exceeded. Consider using:
 - Particulate matter air filters with a minimum MERV rating of 13 or higher (if feasible) for buildings in areas where the Environmental Protection Agency (US EPA) standards for PM10 (particulate matter) or PM2.5 are routinely exceeded.
 - Ozone-removing air cleaning devices² with a minimum volumetric ozone removal efficiency of 40 percent in areas where the US EPA 8-hour average ambient ozone standard is routinely exceeded. These devices should be operated continuously during times that the relevant air quality standard is exceeded and the building is occupied. See <http://www.arb.ca.gov/adam/index.html> or contact your local air quality management district to determine whether a specific site falls into this category.
- vii. Purge buildings prior to daily occupancy with outdoor air, with either the minimum ventilation rate for one hour, or three complete air changes as required for non-residential buildings (Section 120.1(c)2 of the 2013 *California Code of Regulations*, Title 24, Part 6.)

**New/Renovated
Buildings**

- b. New and Renovated Buildings
 - i. Commission new buildings to ensure proper installation and operation of all building systems, including the proper delivery of the required amount of outdoor air (Title 24, Part 6, Section 120.8).
 - ii. Implement relevant *mandatory* measures and relevant and feasible *voluntary* measures from *CALGreen* (Division 5.5, and Appendix section A5.5).

Continued

**HVAC Operation
and Maintenance
New/Renovated
Buildings (Cont.)**

- iii. Provide specialized air treatment for buildings in areas where air quality standards are routinely exceeded.
 - Use particulate matter air filters with a minimum MERV rating of 13. MERV 16 or HEPA (high efficiency particulate arrestance) filters should be considered where feasible for institutional residential buildings that house sensitive groups such as the elderly or infirm, and buildings used by children.
 - Consider using ozone-removing air cleaning devices² with a minimum volumetric ozone removal efficiency of 40 percent in areas where the US EPA 8-hour average ambient ozone standard is routinely exceeded. These devices should be operated continuously during times that the relevant air quality standard is exceeded and the building is occupied. See <http://www.arb.ca.gov/adam/index.html> to determine whether a specific site falls into this category.
- iv. Specify that all HVAC systems above 2,000 cubic feet per minute (cfm) be equipped with outdoor airflow measuring stations and be connected to a building energy management system. Building management systems shall be programmed to provide audible and visible alarms when minimum outdoor airflow rates are not met. If feasible, HVAC systems smaller than 2,000 cfm shall also be equipped with such airflow measuring stations.
- v. Specify that all HVAC systems above 2,000 cubic feet per minute (cfm) be equipped with outdoor airflow measuring stations and be connected to a building energy management system. Building management systems shall be programmed to provide audible and visible alarms when minimum outdoor airflow rates are not met. If feasible, HVAC systems smaller than 2,000 cfm shall also be equipped with such airflow measuring stations.
- vi. Develop an IEQ Construction Management Plan that incorporates measures in *CALGreen* Sections A5.504.1 through A5.504.2 for actions during and after construction to ensure healthful IEQ.

**Water Intrusion
and Mold**

3. Prevent Water Intrusion and Growth of Mold

Keep all buildings clean and sanitary as required by Title 8 Section 3362 (<http://www.dir.ca.gov/Title8/3362.html>). When exterior water intrusion, leakage from interior water sources, or other uncontrolled accumulation of water occurs, the intrusion, leakage or accumulation shall be corrected, typically within 24-48 hours because these conditions may cause the growth of mold.

Line of Sight and Daylighting**4. Line of Sight and Daylighting – New Buildings**

- a. Toplighting and sidelighting are recommended per *CALGreen* (Section A5.507.2); recommended are the use of light shelves, reflective room surfaces, means to eliminate glare, photosensor controls and not using diffuse daylighting glazing where views are desired. See <http://newbuildings.org/lighting> and http://www.wbdg.org/resources/daylighting.php?r=dd_lightingdsqn for additional information.
- b. Direct line of sight to the outdoor environment via vision glazing between 2.5 and 7.5 feet above the finished floor in 90 percent of all regularly occupied areas is required. (*CALGreen* Section A5.507.3).

Tenant Input**5. Input from Occupants – Existing Buildings**

Input from building occupants should be solicited every two years to obtain feedback on any IEQ and/or comfort concerns. One of the following methods should be used:

- a. Occupant surveys to collect information on IEQ, as well as on other sustainability issues, such as the need or desirability for electric vehicle charging stations, commute alternatives, etc.
- b. Maintenance and regular review of an occupant complaint database documenting complaints related to IEQ and responses to the complaints.

Resources

Guidelines and standards can help state agencies achieve acceptable IEQ, including but not limited to:

1. VOC emission limits for building materials established by CDPH (<http://www.cal-iaq.org/separator/voc/standard-method/>);
2. Architectural coatings guidelines and composite wood rules from CARB (see *CALGreen*, <http://www.arb.ca.gov/coatings/arch/docs.htm>, and <http://www.arb.ca.gov/toxics/compwood/compwood.htm>);
3. Green Seal guidelines for cleaning products and processes (<http://www.greenseal.org/GreenBusiness/Standards.aspx>);
4. Ventilation, filtration, and daylighting regulations from the Energy Commission (see current building efficiency standards at <http://www.energy.ca.gov/title24/>);
5. Cal-OSHA requirements (<http://www.dir.ca.gov/title8/5142.html>, <http://www.dir.ca.gov/title8/3362.html>, and others);
6. Measures included in criteria from green building organizations such as those in the US Green Building Council's Leadership in Energy & Environmental Design program (<http://www.usgbc.org/leed/rating-systems/>);

Continued

**Resources
(Cont.)**

7. ASHRAE (consensus) standards for ventilation and filtration (<https://www.ashrae.org/>);
 8. California Best Practices Manual: Better Building Management for a Better Tomorrow (<http://www.green.ca.gov/GreenBuildings/BBBTManual.aspx>);
 9. California Buying Green Guide: Standards and Specifications for Environmentally Preferable Purchases (<http://www.dgs.ca.gov/buyinggreen/Home/BuyersMain.aspx>); and
 10. Building Standards Commission Guidebooks (<http://www.bsc.ca.gov/pubs/guides.aspx>).
-

Questions

If you have any questions or concerns regarding these matters, contact:

- Peggy Jenkins, California Air Resources Board, mjenkins@arb.ca.gov; or
 - Leon Alevantis, California Department of Public Health, Leon.Alevantis@cdph.ca.gov
-

Signature


Fred Klass, Director
Department of General Services

5/21/14

Date

Notes:

¹ Note that you may have to access several documents to determine the current requirements. *CALGreen* Section numbers cited in this document are for the 2013 *CALGreen Code*; note that section numbers may change in future versions. The link will be updated, when updates become available.

² Some air cleaning devices advertised to remove ozone or volatile organic compounds (VOC) such as those using photocatalytic oxidation (PCO) may produce hazardous secondary pollutants and should be avoided pending further research on their safety. The most effective filtration technologies currently available to provide limited removal of ozone and VOC include those using activated carbon, potassium permanganate, and Purafil® media.

MANAGEMENT MEMO

NUMBER:

MM 14-07

SUBJECT:

STANDARD OPERATING PROCEDURES FOR ENERGY MANAGEMENT IN STATE BUILDINGS

DATE ISSUED:

July 31, 2014

EXPIRES:

UNTIL RESCINDED

REFERENCES:

EXECUTIVE ORDER B-18-12, MANAGEMENT MEMO 13-06
SUPERSEDES MM 09-04

ISSUING AGENCY:

**DEPARTMENT OF
GENERAL SERVICES**

Purpose

This Management Memo (MM) amends the *Standard Operating Efficiency Procedures* regarding efficient energy management in state buildings during normal operations, as specified in [Executive Order B-18-12](#) and the [Green Building Action Plan](#).

Policy

All state agencies shall follow the [Standard Operating Efficiency Procedures](#) for managing energy usage in state-owned buildings and, as practical, in state-leased buildings.

For information on actions state agencies shall take during electrical emergencies, including rotating outages and blackouts, refer to [MM 13-06](#), *Procedures for Energy Management in State Buildings during Electrical Emergencies*.

Who is Affected

All state agenciesⁱ shall follow these procedures. It is requested that entities of state government not under the Governor's direct executive authority also implement similar measures.

Changes to Procedures

The *Standard Operating Efficiency Procedures* incorporate the following changes:

- Clarifies roles and responsibilities;
- Requires energy saving features on computers, copiers and printers;
- Requires state agencies to purchase ENERGY STAR-rated equipment;
- Requires some form of daylight controls near windows and under skylights under specified conditions;
- Includes Demand Response guidelines; and
- Includes policies and procedures on plug load.

Note: "Plug Load" is electrical consumption from any device that plugs into a building's electrical system. It can account for roughly 25 percent of total electricity consumed within office buildingsⁱⁱ. In addition, plug loads are on the rise, representing one of the fastest growing uses of energy in commercial buildings. As such, reducing plug loads offers significant, cost-effective energy savings potential for state agencies.

ⁱ As defined under Government Code Section 11000 (a), "state agency" includes every state office, officer, department, division, bureau, board, and commission.

ⁱⁱ [Plug Load Control](#), U.S. General Services Administration, September 2012

Background

On April 25, 2012, Governor Brown issued [Executive Order B-18-12](#) which includes an implementation plan titled, "The [Green Building Action Plan](#)." This plan requires the Department of General Services to work with other state agencies to develop policies and guidelines for the operation and maintenance of state buildings to achieve operating efficiency improvements and water and resource conservation.

Among other things, the Executive Order requires state agencies to:

- Take measures toward achieving Zero Net Energy for 50 percent of the square footage of existing state-owned building area by 2025;
- Take measures to reduce grid-based energy purchases for state-owned buildings by at least 20 percent by 2018, as compared to a 2003 baseline, and reduce other non-building, grid-based retail energy purchases by 20 percent by 2018, as compared to a 2003 baseline; and
- Participate in "demand response" programs to obtain financial benefits for reducing peak electrical loads when called upon, to the maximum extent that is cost-effective for each state-owned or leased facility, and does not materially adversely affect agency operations.

To meet the Executive Order requirements, state agencies must ensure that they are operating at a high standard level of operating efficiency.

Additional Resources

1. [Plug Load Best Practices Guide](#): Managing Your Office Equipment Plug Loads, New Buildings Institute.
 2. [Commercial Plug Load Energy Use Policy](#): What's in Place, Pending and Possible, New Buildings Institute, April 2013.
 3. [Plug Load Control](#), U.S. General Services Administration, September 2012.
 4. [Assessing and Reducing Plug and Process Loads in Office Buildings](#), National Renewable Energy Laboratory, April 2013.
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Contact Information

Office of Sustainability
Department of General Services
sustainability@dgs.ca.gov

Signature



Fred Klass, Director
Department of General Services

MANAGEMENT MEMO

NUMBER: MM 14-09
DATE ISSUED: October 10, 2014 Form 408 revised 12/2015
EXPIRES: UNTIL RESCINDED
ISSUING AGENCY: DEPARTMENT OF GENERAL SERVICES

SUBJECT:
**ENERGY EFFICIENCY IN DATA CENTERS AND
SERVER ROOMS**

REFERENCES:
[Executive Order B-18-12 Green Building Action Plan Section 10](#)
[PUE Calculations IEEE 802.3-2012-Section Six Title 24 Building](#)
[Energy Efficiency Standards](#)

Purpose This Management Memo provides direction to all state agencies to meet data center and server room energy efficiencies as required in the Green Building Action Plan Section 10.7. This plan implements Executive Order B-18-12.

Policy State agencies will achieve energy operating efficiency in data centers and server rooms in state-owned and state-leased buildings.

Who is Affected All state agencies under the definition of Government Code Section 11000: (a) As used in this title, "state agency" includes every state office, officer, department, division, bureau, board, and commission. It is requested that entities of state government not under the Governor's direct executive authority also implement similar measures.

Requirements By December 31, 2014, all state-owned and leased data centers and server rooms greater than 200 square feet shall be operated within the 2011 ASHRAE - TC 9.9, Class A1 – A4, recommended guidelines for temperature and humidity in addition to all applicable 2013 Title 24 Building Energy Efficiency Standards. In most cases it will not be necessary to control humidity and/or dew point in order to stay within the specified ASHRAE- recommended guidelines. If this becomes a problem, the Department of Technology can assist agencies by recommending solutions.

Temperature and humidity in data centers and server rooms shall be measured at the information technology (IT) equipment air inlets for temperature and humidity compliance. It is recommended that supply air inlet temperatures in data centers remain in the 23 to 27 degree Celsius (C) (73 to 81 degrees Fahrenheit) range.

Class	Equipment Environmental Specifications	
	Product Operations	
	Dry-Bulb Temperature (°C)	Humidity Range, Non-condensing
A1 to A4	18 to 27	5.5°C Dew Point to 60% Relative Humidity and 15°C Dew Point

Continued

**Requirements
(cont.)**

1. All state data centers that exceed 1,000 square feet shall measure and report their power usage effectiveness (PUE) annually by December 31 (beginning December 31, 2014) to the Department of Technology using the Power Usage Effectiveness Report ([TECH 408A \(Air Cooled\)](#) or [TECH 408B \(Chilled Water Cooled\)](#)ⁱ. For agencies whose cooling is supplied through the downtown Sacramento Central Plant, the Department of Technology can provide specific instructions for the calculations. Agencies are responsible for submitting these reports, and must base their PUE calculations on the criteria outlined in the [Green Grid publication](#)ⁱⁱ

Data centers that exceed a PUE of 1.5 shall reduce their PUE by a minimum of 10 percent per year until they achieve a 1.5 or lower PUE. These reductions can be achieved through energy saving measures and/or through scheduled and budgeted power and cooling supply equipment replacements. If agencies that manage data centers 1,000 square feet or larger do not have the expertise to reduce PUE, the Department of Technology can provide suggestions. The Department of General Services and local utilities also are excellent resources to suggest energy savings measures.

2. When purchasing network switches and routers, all state agencies must specify the Energy Efficient Ethernet IEEE (Institute of Electrical and Electronics Engineers) 802.3-2012 Section 6 standard to the maximum extent possible. (Download a free copy of this IEEE standard from (the [IEEE Standards Association](#)).
3. All state agencies must consider virtualization options when refreshing equipment or standing up new systems. Virtualization is the creation of a virtual rather than actual version of something such as an operating system, a server, a storage device, or network resources. Use of the most energy efficient power supplies available should be included in the purchase of new IT equipment.

Questions

If you have questions about this directive, please contact:

David Nahigian, Computer Room Efficiency Coordinator
California Department of Technology
(916) 431-5491 or david.nahigian@state.ca.gov

Signature

Fred Klass, Director
Department of General Services

ⁱ TECH 408 Report form was divided into two forms in December 2015.

ⁱⁱ The Green Grid publication is considered proprietary information and therefore it cannot be provided as a direct link. Departments must register at the Green Grid website to obtain this free publication.

Sustainable Building Working Group
Questions and Answers from November 4, 2014 Webinar

Updated 12.18.15

MM 14-09 Energy Efficiency in Data Centers and Server Rooms

(Answers provided by Department of Technology)

1. Question: Please provide a definition for Data Center/Computer Room.

Answer:

A data center is generally a building or room designed and dedicated for the support of data processing. A data center is a facility used to house computer systems and associated components, such as telecommunications and storage systems. It generally, but not always, includes redundant or backup power supplies, redundant data communications connections, environmental controls (e.g., air conditioning, fire suppression) and various security devices.

2. Question: Will PUE reporting deadline become your baseline year?

Answer:

Management memo 14-09 will be an annual requirement for all departments under the Executive Branch. Departments who reach the goal of a PUE at or under 1.5 will still be required to submit their PUE information in subsequent years to verify that their PUE meets the requirements of the management memo. Note PUE reporting is only required for Data Center/Computer Room/Server Rooms over 1000 square feet in size.

3. Question: Which form do I use, TECH 408A or 408B? (updated 12.18.15)

Answer:

If your data center is air cooled, please use TECH 408A. If your data center is water cooled, please use TECH 408B

4. Question: Where do we send the completed form? (updated 12.18.15)

Answer:

TECH 408a and TECH 408B are designed to be completed and submitted online. When you click on the SUBMIT button, the form will be sent to the correct place.

5. Question: After data is collected from state agencies what will the Department of Technology do with the information?

Answer:

The information will be compiled and a report will be generated and submitted to the state CIO. The report will include the department name, the PUE reported, and a summary of energy efficient efforts planned by the department to lower their PUE. The Department of Technology will track departments' efforts to meet or maintain the PUE goal of 1.5 or better.

6. Question: Because Management Memo 14-09 requires reporting for leased property (as well as state owned) and many leased spaces are not sub metered at the data center level, how are agencies supposed to gather the necessary data for data center input and PUE reporting? Typically private sector Lessors do not allow the state to work on their building (they probably will not allow the State to access their electrical panels due to liability concerns, as well as the 2012 NFPA 70E requirements). If no data is available from the Lessor, during this reporting period (data due 12/31/14) what should agencies do? Should they indicate that sub. meters are not installed at the privately owned space, consequently no PUE reporting is possible? _Please advise.

Answer:

A data center of over 1000 square feet uses a significant amount of energy. Reporting for state leased data centers over 1000 square feet is still required. If the facility's BMS and/or the electrical and mechanical distribution equipment cannot provide the necessary data, a licensed electrician can access electrical panels and record amp clamp readings and or readings directly from computer room air conditioners necessary for PUE calculations.

7. Question: Is DGS redrafting its standard lease agreement to make it a requirement for lessors to sub meter data centers and server rooms and provide energy use data, dry bulb temperatures and humidity compliance data to the state (Lessee) consistent with this new MM? This would seem to be a necessity if the state wants to consistently capture the data for leased buildings.

Answer:

For facilities with a data center 1000 square feet or greater, if hiring an electrician to record readings on behalf of state departments proves problematic, RESD can be consulted to determine if any changes need to be made to the lease.

Changing the standard lease agreement will not be necessary as monitoring temperature and humidity can be done with a simple monitoring gauge. Because of recent technology advances, and governor directives, there have been no new data centers over 1000 square feet built in the past several years, and no new ones planned.

8. Within each agency, who is the responsible party for reporting? It appears that the CIO is the signature authority on Form TECH 408, which suggests that the CIO is the responsible party. Please confirm.

Answer: The department CIO is the responsible party for signature authority.

MANAGEMENT MEMO

NUMBER:	MM 15-04
DATE ISSUED:	May 13, 2015
EXPIRES:	UNTIL RESCINDED
ISSUING AGENCY:	DEPARTMENT OF GENERAL SERVICES

SUBJECT: **ENERGY USE REDUCTION FOR NEW, EXISTING, AND LEASED BUILDINGS**

REFERENCES: Governor's Executive Order B-18-12 and the Green Building Action Plan

Purpose

This management memo provides direction to all state agencies to reduce and to report energy use in:

1. New building design and construction
2. Major alterations and additions (new buildings and renovations)
3. Existing state-owned buildings (existing buildings)
4. New and renegotiated state building leases (building leases)

Policy

All state agencies shall achieve targets and timelines for energy use reductions established in Executive Order B-18-12 and the Green Building Action Plan for buildings they design, build, manage, or lease.

- Agencies shall include their strategies and procedures to achieve these targets in their existing building infrastructure plan updates.
- Agencies shall enter all energy consumption data into the ENERGY STAR® Portfolio Manager® annually, by March 1. As agencies automate their meters, this information will be collected monthly.

Authority

This management memo is executed under the Governor's executive authority established in Executive Order B-18-12 and the Green Building Action Plan.

Definitions

[Green California Glossary](#)

Who is Affected

All state agencies under the definition of Government Code §11000: (a) As used in this title, "state agency" includes every state office, officer, department, division, bureau, board, and commission. It is requested that entities of state government not under the Governor's direct executive authority also implement similar measures. This policy affects state agencies that manage state-owned buildings, or that lease building space not owned by the state.

Requirements

Requirements for state agencies are presented in the following four sections:

- 1. New Buildings and Renovations**
- 2. Existing Buildings**
- 3. Building Leases**
- 4. Reporting**

**New Buildings
And Renovations****1. New Buildings and Renovations**

- a. All new building and renovation project computer modeling, reports, and other related documentation prepared as part of the design process shall become the property of the state once the project is closed out and/or has received an occupancy permit.
- b. All new building and renovation projects shall be designed and constructed to exceed by 15 percent the applicable version of the Title 24, Part 6, Building Energy Efficiency Standards.
- c. All new building and renovation projects *less than 10,000 gross square feet of building area (gsf)* shall meet or exceed project applicable Title 24, Part 11, California Green Building Standards Tier One requirements.
- d. All new building and renovation projects **larger than 5,000 gsf and exceeding an energy use intensity (EUI) of 50,000 British thermal units (BTU)/gsf, or larger than 10,000 gsf** shall be commissioned in accordance with Leadership in Energy and Environmental Design (LEED) requirements and California Title 24, Part 6, Energy Efficiency Standards that are in effect at the time.
- e. All new building and renovation projects **larger than 10,000 gsf** shall:
 - i. Install and operate all design-appropriate and economically feasible clean, onsite power generation including, but not limited to solar photovoltaic, solar thermal, and wind power generation including clean backup power supplies.
 1. To the extent possible, explore methods of alternative financing including but not limited to [power purchase agreements \(PPAs\)](#) or other mechanisms to fund, install, and/or manage on-site renewable energy generation.
 - ii. Obtain LEED Silver or higher certification using the version of LEED that is in effect at the time the project schematic design documents are initiated by the state agency. Certification to an equivalent or higher rating system or standard (if any) is acceptable only when approved by the Sustainability Task Force.
- f. All new building and renovation projects that are authorized to begin the schematic phase of design on or after **January 1, 2020, and before January 1, 2025**, shall be constructed as zero-net-energy (ZNE) facilities, **unless** the department has achieved the goal of at least 50 percent of new building and renovation projects during that period being ZNE. All new building and renovation projects that are authorized to begin the schematic phase of design on or after **January 1, 2025**, shall be constructed as zero-net-energy (ZNE) facilities.
- g. All new buildings and renovation projects shall include an Energy Management Systems (EMS) with a training program for energy management and maintenance staff; or shall include an Energy Management Plan.

Existing Buildings 2. Existing Buildings

- a. **Before January 1, 2016, all existing buildings over 50,000 gsf** shall complete LEED for Existing Building Operations and Maintenance (LEED-EBOM) certification. Buildings shall meet or exceed an ENERGY STAR rating of 75, to the maximum extent cost-effective.
- b. **For calendar year 2018 or before**, all state agencies shall take measures to reduce annual grid-based energy purchases for existing buildings by 20 percent, compared to a 2003 calendar year baseline. Total grid-based energy purchases shall be calculated in equivalent thousand British thermal units (kBtu) when compared to purchases in calendar year 2003 for all forms of energy provided (for example, electricity, natural gas, propane, and any other forms of energy) according to Table 1 below.

Table 1: Site Energy kBtu Conversion

Energy Type	Energy Unit	Site Energy Conversion
Electricity	1 kilowatt hour	3.412 kBtu
Natural Gas	1 therm	99.976 kBtu
Propane	1 gallon	95.500 kBtu

- i. Agencies shall enter current energy use data into the ENERGY STAR Portfolio Manager database, including electricity, natural gas, propane, on-site renewable energy, and any other forms of energy. Onsite renewable energy generated counts toward energy reductions and is not included in total energy purchases.
 - 1. Online access to the ENERGY STAR Portfolio Manager database shall be provided to DGS.
 - 2. Retail electricity purchases for water management activities directly associated with water conveyance and flood control are excluded.
 - ii. Agencies shall set up automated energy data transfers from their utility into the ENERGY STAR Portfolio Manager database, if available from their utility.
- c. **Before January 1, 2025**, all state agencies shall take measures toward achieving ZNE for at least 50 percent of total state-owned building area (gsf) that they manage. Agencies shall:
 - i. Reduce non-facility energy use (including plug loads affected by building occupant behaviors, computers, equipment and appliances).
 - ii. Assess feasibility, methods, and mechanisms to install on-site renewable energy to generate as much energy over a year as all combined sources of energy used on the site during the same year.
 - iii. To the extent possible, explore methods of alternative financing including, but not limited to [energy service companies \(ESCOs\)](#), on-bill financing, GS-\$Mart, and PPAs.
- d. **By December 31, 2016**, all state agencies shall participate in all available demand response power supply programs designed to reduce peak electrical loads when such programs do not adversely affect state agency building operations, occupant performance or indoor environmental quality.
- e. Existing buildings shall incorporate building commissioning to facilitate improved and efficient building operations as set forth in Table 2 below.

Continued on next page

Existing Buildings
(continued)

Table 2: Building Commissioning Criteria For Existing State Buildings

Building Type	Building Area (gsf)	EUI (kBtu/sq. ft.)	Required Commissioning
All existing state buildings	>50,000 gsf	EUI >20	Monitoring-based commissioning (MBCx)
	>5,000 gsf	EUI >100	MBCx
Metered state buildings	>10,000 gsf	EUI >30	MBCx

Building Leases

3. Building Leases

- a. All state agency build-to-suit leases shall be designed and constructed to meet the requirements of Section 1 above for New Buildings and Renovations.
- b. All new and renegotiated state building leases shall encourage lower-than-industry-standard energy and other resource use to the extent possible and economically feasible. These leases should also encourage landlords to participate in available utility programs that offer financial incentives and alternative financing to cover energy efficiency measure and renewable power system incremental costs.
- c. All new state building leases shall, where economically feasible, require the use of submeters for gathering energy use data as needed to complete ENERGY STAR Portfolio Manager reports.
- d. Renegotiated state building leases for buildings, where the state is a sole tenant, shall provide energy use data, if possible, for completing ENERGY STAR Portfolio Manager energy use evaluations and for benchmarking reports.
- e. All state-leased facilities shall participate in cost-effective demand response power supply programs designed to reduce peak electrical loads, if available, without adversely affecting state agency building operations, occupant comfort and performance, or indoor environmental quality requirements outlined in the [State Administrative Manual, Sustainable Operations and Practices Ch. 1825](#).

4. Reporting Requirement

Reporting Requirements

Each state agency shall be responsible for developing annual energy use reduction goals and intended actions for achieving the goals stated in its five-year infrastructure plan.

- a. Agency Reporting Requirements for State-Owned (Existing) Buildings and New and Renegotiated State Building Leases
The annual energy use reduction goals of existing buildings, as well as new and renegotiated state building leases, shall be included in the annual state agency five-year infrastructure plan, and annual whole building energy use shall be entered into the ENERGY STAR Portfolio Manager database, with access provided to DGS.

Benchmarking of initially occupied new buildings and build-to-suit leases should begin upon building occupancy.

Exceptions

Building leases of three years or less are exempt from the requirements of this Management Memo.

All public safety and health requirements take precedence over the requirements of this management memo.

Background

On April 25, 2012, the Governor issued [Executive Order B-18-12](#), including a [Green Building Action Plan](#), to accomplish the goals and requirements of the Executive Order. The State of California has the policy goal of achieving all new construction ZNE in the 2020 Title 24 code update for residential buildings and the 2030 Title 24 update for commercial buildings.

Alternative Funding Mechanisms

Alternative funding sources to support agency five-year infrastructure plans to meet or exceed the requirements of this management memo can include power purchase agreements ([PPA's](#)), [GS \\$Mart](#), the [Energy Efficient State Property Revolving Fund](#), or other funding mechanisms .

Additional Resources

Title 24, Part 6, Energy Efficiency Standards
<http://www.energy.ca.gov/title24/>

Design Guidelines to Consider

- Energy Design Resources, Investor-Owned Utilities [PG&E](#), [SDG&E](#), [SCE](#), [SMUD](#), and [LADWP](#)
- [Savings by Design Program Savings by Design Online Program Handbook](#)
- [Saving Energy in Commercial Buildings, NREL , U.S. Department of Energy](#)
- [Energy Star Building Upgrade Manual, U.S. Environmental Protection Agency](#)
- [National Institute of Building Sciences Whole Building Design Guide](#)
- [California Commissioning Guides for New Buildings and Existing Buildings Leadership in Energy and Environmental Design \(LEED\) Resources, US Green Building Council](#)
- [Database of State Incentives for Renewables & Efficiency](#)

Questions

Contact: Energy Standards Hotline, California Energy Commission, (916) 654-5106

Signature



Esteban Almanza, Acting Director
Department of General Services

05/13/2015

Date

PUBLIC CONTRACT CODE

SECTION 12400-12404

12400. For purposes of this chapter, "environmentally preferable purchasing" means the procurement or acquisition of goods and services that have a lesser or reduced effect on human health and the environment when compared with competing goods or services that serve the same purpose. This comparison shall take into consideration, to the extent feasible, raw materials acquisition, production, manufacturing, packaging, distribution, reuse, operation, maintenance, disposal, energy efficiency, product performance, durability, safety, the needs of the purchaser, and cost.

12401. The Department of General Services, in consultation with the California Environmental Protection Agency, members of the public, industry, and public health and environmental organizations, shall provide state agencies with information and assistance regarding environmentally preferable purchasing including, but not limited to, the following:

(a) The promotion of environmentally preferable purchasing.

(b) The development and implementation of a strategy to increase environmentally preferable purchasing. This may include the development of statewide policies, guidelines, programs, and regulations.

(c) The coordination with other state and federal agencies, task forces, workgroups, regulatory efforts, research and data collection efforts, and other programs and services relating to environmentally preferable purchasing.

(d) The development and implementation, to the extent fiscally feasible, of training programs designed to instill the importance and value of environmentally preferable purchasing.

(e) The development, to the extent fiscally feasible, of an environmentally preferable purchasing best practices manual for state purchasing employees.

12401.5. Within existing resources, the Department of General Services shall designate a single point of contact for state agencies, suppliers, and other interested parties to contact regarding environmentally preferable purchasing issues.

12402. Nothing contained in this chapter shall prohibit, limit, or supersede recycled content requirements pursuant to any other provision of law.

12403. Nothing contained in any policy regarding environmentally preferable purchasing may be construed as requiring the acquisition of goods or services that do not perform adequately for their intended use, exclude adequate competition, or are not available at a

reasonable price in a reasonable period of time.

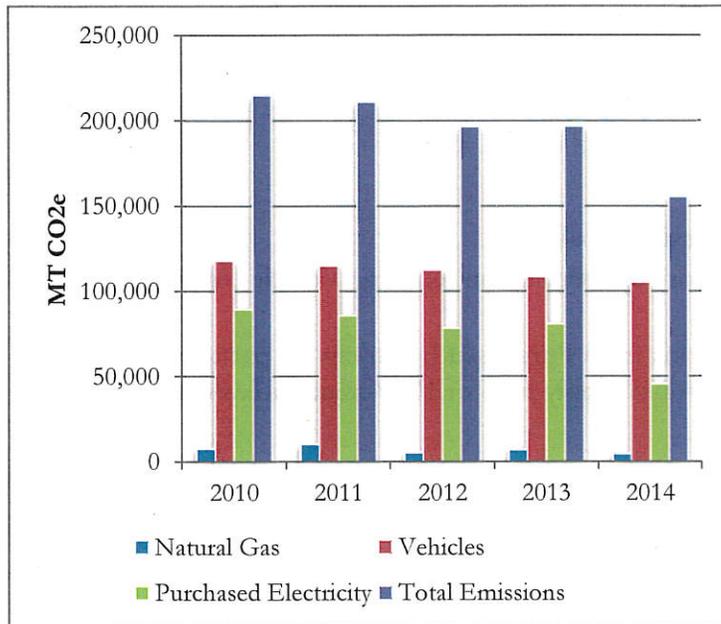
12404. Manufacturers, vendors, or other nongovernmental entities contracting with the Department of General Services shall certify in writing that any environmental attribute claims they make concerning their products and services are consistent with the Federal Trade Commission's Guidelines for the Use of Environmental Marketing Terms.

Appendix B - Greenhouse Gas Emissions (GHG)

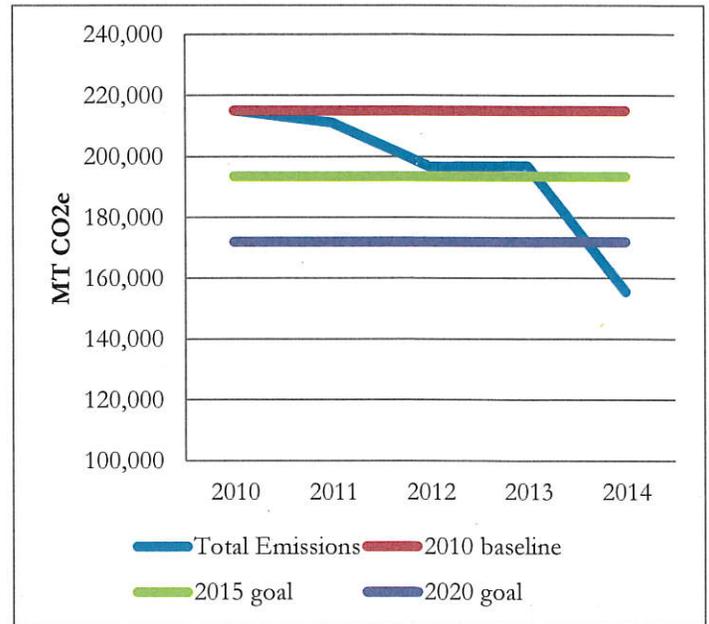
Department of Transportation Emissions Summary

Department of Transportation Emissions Summary

Scope overview



Progress towards goals



Inventory Profile

Caltrans	2010	2011	2012	2013	2014	Percentage change
Natural Gas	7,585	10,223	5,484	7,179	4,735	-38%
Vehicles	118,042	115,119	112,758	108,810	105,339	-11%
Purchased Electricity	89,356	85,725	78,373	80,841	45,538	-49%
Total Emissions	214,983	211,067	196,615	196,831	155,612	-28%

Cal Trans (DOT) GHG Inventory Analysis

Here is a breakdown of DOT's progress towards completing the GHG emissions goals stated in Executive Order B-18-12:

- **2010 (baseline year): 214,983 metric tons CO2e**
- 2011: 211,067 metric tons CO2e
- 2012: 196,615 metric tons CO2e
- 2013: 196,831 metric tons CO2e

- 2014: 155,612 metric tons CO₂e
- EO reduction targets: 10% by 2015 and 20% by 2020, as measured against a 2010 baseline year
- **2010 baseline year emissions: 214,983**
- **2015 10% reduction target: 193,485**
- **2020 20% reduction target: 171,986**

From 2010-2014, DOT had a 28% drop in total GHG emissions.

EMISSIONS REDUCTION RECOMMENDATIONS

- DOT has met its 2015 and 2020 GHG emissions goals
- DOT could further reduce its GHG inventory by focusing on reducing Vehicles emissions, which are two-thirds of its total emissions
- DOT could further reduce its GHG emissions from Purchased Electricity by participating in a Green Energy Purchasing Program that would supply 50% or 100% renewable energy to DOT

Caltrans Greenhouse Gas Emissions Reduction Strategies

Available internal operational strategies to reduce GHG, to be used as appropriate and not limited to:

Pavement and Concrete Strategies

- Replace hot mix asphalt (HMA) with cold-in-place (CIP)
- Replace HMA with rubberized hot mix asphalt (RHMA)
- Replace HMA with warm mix asphalt (WMA)
- Use limestone in cement
- Use fly-ash in concrete, Caltrans-wide requirement
- Use high-supplementary cementitious materials (SCM) concrete mix (in excess of Caltrans minimum).

Fuel Strategies

- Replace gasoline with E85
- Replace diesel with B5
- Replace diesel with B20
- Replace diesel with Propane
- Replace diesel with liquefied natural gas (LNG)

Fleet Strategies

- Facility fleet – hybrid electric vehicles (HEVs)
- Facility fleet – plug-in hybrid electric vehicles (PHEVs)
- Facility fleet – battery electric vehicles (BEVs)

Roadway Lighting Strategies

- Replace Incandescent intersection traffic lights with light emitting diode (LEDs)
- Replace Incandescent ramp meter traffic lights with LEDs
- Replace incandescent pedestrian signals with LEDs
- Replace incandescent flashers with LEDs
- Replace Incandescent changeable message signs (CMS) with Xenon
- Replace incandescent CMS with LED
- Replace high pressure sodium (HPS) roadway lighting with LED
- Replace mercury vapor (MV) lighting with Induction (Sign Lighting only)

Solar Facility Strategies

- Solar installations

Water Conservation Strategies

- Low Flow Toilets
- Low Flow Urinals
- Low Flow Fixtures

Facilities Lighting Strategies

- Indoor light reduction
- Outdoor light reduction

Energy Efficiency Strategies

- Leadership in Energy and Environmental Design (LEED) certification
- Data Center Upgrades
- Overall Building Upgrades
- CERD - Computer Energy Reduction and Documentation

Employee Commute Strategies

- Bicycle commute
- Vanpool
- Carpool
- Transit
- Telecommute

Appendix C - Greenhouse Gas Emissions (GHG)

California Sustainable Freight Strategy Questions & Answers

What is the California Sustainable Freight Strategy (CSFS)?

It is an initial step in an ambitious, integrated effort to produce and implement a unified sustainable freight transportation vision and action plan for California. The CSFS will include specific recommendations, actions, performance measures, and milestones to develop and begin building a sustainable freight transportation system that will demonstrate California's private and public leadership in advancing statewide and national freight priorities, objectives and goals.

The State will establish clear targets to improve freight efficiency, transition to zero-emission technologies, and increase the competitiveness of California's freight system. The CSFS will identify State policies, programs, and investments to achieve those targets. In addition, a vision of California's freight transportation system in 2030 and 2050 will be provided. The State will also identify and initiate corridor-level freight pilot projects within the State's primary trade corridors that integrate advanced technologies, alternative fuels, freight and fuel infrastructure, and local economic development opportunities.

The CSFS is one of the first steps in an ongoing and iterative effort that will respond to priorities set by California and the Governor, along with any new federal requirements (i.e. MAP-21 and/or the new Developing a Reliable and Innovative Vision for the Economy (DRIVE) Act). In addition to supporting the environmental, energy, transportation, and economic objectives already established by California, it will help achieve the Governor's 2030 goals of:

- Decreasing greenhouse gas emissions to 40% below 1990 levels
- Safeguarding California against the impacts of climate change
- Reducing today's petroleum use in cars and trucks by up to 50 percent
- Increasing from one-third to 50 percent our electricity derived from renewable sources
- Doubling the efficiency savings achieved at existing buildings and making heating fuels cleaner
- Reducing the release of methane, black carbon, and other short lived climate pollutants; and
- Managing farm and rangelands, forests and wetlands, so they can store carbon

What is a sustainable freight transportation system?

A sustainable freight transportation system is one that meets California's environmental, energy, mobility, safety, and economic needs by: improving community livability; enhancing system efficiency; deploying zero and near-zero emission freight equipment powered by renewable energy sources; providing reliable performance while increasing safety, mobility and capacity; and improving the competitiveness of our logistics system.

Why is this effort important?

California is the largest gateway for international trade and domestic commerce responsible for one-third of the State's economy and jobs, with freight dependent industries accounting for over \$700 billion in revenue and over 5 million jobs in 2013. However, freight transportation generates a high portion of local toxics and criteria pollutants associated with poor air quality and an increasing contribution of greenhouse gas (GHG) emissions which impact the health and well-being of Californians and deplete vital natural resources. Significant investments in freight infrastructure are necessary to ensure the continued quality of life and economic competitiveness of our State. Only through policies, programs, and investments set forth by a coordinated effort by key State agencies and stakeholders, can success be achieved to influence California's freight system to become more efficient competitive, and environmentally sustainable.

What type of strategies or actions will be pursued?

Actions will include early actions of short duration to address immediate needs and long term strategies to address future freight needs. More specific actions will be developed and defined in the vetting process through other opportunities for involvement. These actions have been grouped into categories and described below:

- Engines and Vehicles
- Energy and Fuels
- Freight Infrastructure and Facilities
- Funding and Incentives
- Freight System Efficiencies
- Economy and Jobs

What State agencies are developing the CSFS?

The Secretary of the California State Transportation Agency (CalSTA), the Secretary of the California Environmental Protection Agency (CalEPA), and the Secretary of the Natural Resources Agency (Resources) are leading other relevant State departments including the California Air Resources Board (ARB), the California Department of Transportation (Caltrans), the California Energy Commission (CEC), and the Governor's Office of Business and Economic Development (GO-Biz) in this effort.

What are the major milestones?

The key milestones of the integrated, statewide, public development process are listed below:

Milestone	Date
Launch the development of the CSFS	July 2015
California Freight Advisory Committee meeting	July 2015
California Freight Advisory Committee meeting	Fall 2015
Outreach sessions and stakeholder engagement for all agencies	July 2015—Spring 2016
Regional workshops	Winter 2015
Release of draft CSFS	Spring 2016
Finalize CSFS	July 2016

How will this effort complement other State efforts?

The CSFS will integrate freight elements from a number of existing plans: the California Freight Mobility Plan, California Transportation Plan, the Integrated Energy Policy Report, and the Sustainable Freight Pathways to Zero and Near-Zero Emissions document, which will provide a foundation for the CSFS and will help determine how to achieve a sustainable freight transportation system. In addition relevant planning efforts already underway or upcoming will coordinate with and influence the CSFS development process to ensure consistency across all efforts.

Plan	Agency	Plan Due
Interregional Transportation Strategic Plan	California Department of Transportation	June 2015
State Transportation Improvement Program Guidelines	California Transportation Commission	Summer 2015
National Freight Strategic Plan	Federal Highway Administration	TBD
California Transportation Plan 2040	California Department of Transportation	December 2015
Short-Lived Climate Pollutant Plan	California Air Resources Board	Spring 2016
2014 Integrated Energy Policy Report	California Energy Commission	February 2015
2016 State Implementation Plans	California Air Resources Board	Summer 2016
California State Aviation Plan	California Department of Transportation	Fall 2016
California State Rail Plan	California Department of Transportation	Spring 2017
2030 Scoping Plan	California Air Resources Board	TBD
Regional Transportation Plan Guidelines	California Transportation Commission	TBD

What are the opportunities for involvement?

The CSFS public process will provide several opportunities to be involved, including the following:

- California Freight Advisory Committee (CFAC) meetings are open to the public and will provide an opportunity for interested parties to engage in discussions regarding CSFS development.
 - Website: <http://dot.ca.gov/hq/tpp/offices/ogm/cfac1.html>
 - Notifications: Contact CFAC@dot.ca.gov to request to be added to the distribution list.
- Outreach Sessions: Throughout the process, discussions with all of the interested stakeholders such as industry, environmental groups, and community groups will be held as needed.
- Regional Workshops: A series of regional workshops will be held around the State in order to engage the public, provide information, solicit input, and receive ideas.
- Draft Release: The release of the draft CSFS in spring 2016 will provide an opportunity for the public to comment.

Who should I contact?

If you have questions, would like to receive more information, or want to request a meeting, please see the contacts listed below to determine the most appropriate contact. You may also sign up for the listserv through http://www.arb.ca.gov/listserv/listserv_ind.php?listname=sfti.

Topic Area	Contact
General Inquiries	California Air Resources Board: Freight@arb.ca.gov California Department of Transportation: CSFS@dot.ca.gov
Engines and Equipment	California Air Resources Board: Lezlie Kimura Szeto, Lezlie.kimura@arb.ca.gov Governor's Office of Business and Economic Development: Frank Ramirez, Frank.Ramirez@gov.ca.gov
Economy and Jobs/Pilot Projects	California Air Resources Board: Lezlie Kimura Szeto, Lezlie.kimura@arb.ca.gov Governor's Office of Business and Economic Development: Frank Ramirez, Frank.Ramirez@gov.ca.gov
Energy and fuel	California Energy Commission: Andre Freeman, Andre.Freeman@energy.ca.gov
Freight infrastructure and facilities Funding and incentives Logistics and system-wide efficiencies	California Department of Transportation: CSFS@dot.ca.gov



Appendix D – Energy – Zero Net Energy (ZNE)

Potential ZNE Buildings

Potential ZNE Buildings*

BUILDING NAME	District	Floor Area	Building Type
07 DISTRICT OFFICE	07 - Los Angeles	716,200	Office
04 DISTRICT OFFICE	04 - Oakland	525,000	Office
005 DOT HEADQUARTERS OFFICE BUILDING	HQ - Sacramento	462,392	Office
11 OFFICE (OLD)	11 - San Diego	272,686	Office
08 DISTRICT OFFICE (SAN BERNARDINO GOV'T CENTER OFFICE BLDG)	08 - San Bernardino	235,714	Office
TRANSPORTATION LABORATORY	HQ - Sacramento	171,195	Lab - HQ
ROYAL OAKS WAREHOUSE	HQ - Sacramento	102,558	Other - Warehouse
KEARNEY MESA MAINTAINANCE STATION	11 - San Diego	96,547	Maintenance Station
HEADQUARTERS EQUIPMENT SHOP	HQ - Sacramento	85,027	Equipment Shop
KINGVALE MAINTENANCE STATION	03 - Marysville	82,440	Maintenance Station
LOS ANGELES REGIONAL TMC	07 - Los Angeles	82,300	TMC
01 DISTRICT OFFICE	01 - Eureka	80,800	Office
BATAVIA MAINTENANCE STATION	12 - Irvine	79,551	Maintenance Station
06 DISTRICT OFFICE	06 - Fresno	78,000	Office
TOLL BRIDGE REGION MAINT	04 - Oakland	76,970	Maintenance Station
EQUIPMENT SHOP 07 (2701)	07 - Los Angeles	70,681	Equipment Shop
08 SOUTHERN REGION LAB	08 - San Bernardino	67,000	Lab - District
10 DISTRICT OFFICE	10 - Stockton	64,574	Office
11 SAN DIEGO TMC	11 - San Diego	60,245	TMC
CENTRAL BANDINI MAINTENANCE STATION	07 - Los Angeles	56,836	Maintenance Station
WHITMORE MAINTENANCE STATION	03 - Marysville	56,816	Maintenance Station
FRESNO MAINTENANCE STATION	06 - Fresno	53,290	Maintenance Station
Total Square feet		3,576,822	

*These buildings are subject to change based on space for renewable energy equipment.

**Appendix E – Energy – Reduce
Grid-Based Energy Purchased
by 20% by 2018**

**Caltrans Facilities Energy
Report**

Caltrans Facilities Energy Report

Note: 1) Energy data comes from upload into Energy Star Portfolio Manager from Energy companies, or InfoAdvantage (for smaller energy companies). 2) 2003 Baseline energy reported to the Governor's Office can not be determined for each individual building. Only 2/3 of the buildings in this document were reported to the Governor's Office for the baseline data. 3) Baseline data in this document is from the first full year of data entered into ESPM. 4) Data from buildings that are co-located are entered only once with one building.

District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBtu/sq ft)	Baseline Energy (kBtu) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)					
01 - Eureka								
Equipment Shop								
01 UKIAH EQUIPMENT SUB-SHOP	1,321,087	1,296,525	1,229,243	2011	28,560	43.04	1,837,966	-33.12%
EQUIPMENT SHOP 01	1,162,758	1,304,312	1,185,660	2003	30,982	38.27	1,488,954	-20.37%
Lab - District								
01 MATERIALS LAB				-	7,190	0.00		
Lab - Field								
LOWER LAKE CONSTRUCTION LABORATORY	146,119	133,583	80,148	2003	1,000	80.15	56,608	+41.58%
Maintenance Station								
BOONVILLE MAINTENANCE STATION	78,749	72,529	69,908	2003	6,671	10.48	70,424	-0.73%
BRACUT MAINTENANCE STATION	1,434,086	1,539,330	1,378,761	2003	27,941	49.35	703,307	+96.04%
BRIDGEVILLE MAINTENANCE STATION	123,753	112,067	106,871	2003	2,804	38.11	88,831	+20.31%
CLEARLAKE OAKS MAINTENANCE STATION	4,886	127,530	289,580	2003	2,800	103.42	36,304	+697.66%
CRESCENT CITY MAINTENANCE STATION		142,349	137,845	2004	1,230	112.07	177,697	-22.43%
DINSMORE S/S				-	-			
DISTRICT 01 ANNEX	144,916	138,196	217,930	2011	6,480	33.63	141,306	+54.22%
FORT BRAGG MAINTENANCE STATION	89,548	76,013		2003	3,695	0.00	44,663	-100.00%
FORTUNA MAINTENANCE STATION	312,177	305,063	267,285	2003	3,672	72.79	251,855	+6.13%
GARBERVILLE MAINTENANCE STATION	229,256	228,553	205,119	2003	6,307	32.52	238,567	-14.02%
IDLEWILD MAINTENANCE STATION		188,069	196,531	2005	8,776	22.39	98,402	+99.72%
LAKEPORT MAINTENANCE STATION	163,179	143,686	115,530	2003	5,421	21.31	170,075	-32.07%
LEGGETT MAINTENANCE STATION	106,069	104,138	99,600	2003	3,627	27.46	105,963	-6.01%
MANCHESTER MAINTENANCE STATION	58,550	67,049	69,352	2003	4,019	17.26	46,949	+47.72%
ORLEANS MAINTENANCE STATION	93,352	95,263	86,972	2003	4,093	21.25	55,411	+56.96%
PINE CREEK SAND STORAGE				-	-			
RATTLESNAKE CK S/S	4,309	6,401	9,356	2011	-		9,281	+0.81%
REDWOOD BYPAS S/S				-	-			
UKIAH MAINTENANCE STATION	754,340	740,569	882,504	2003	37,328	23.64	952,940	-7.39%
WILLITS MAINTENANCE STATION	328,004	366,609	291,113	2003	4,206	69.21	391,353	-25.61%
WILLOW CREEK MAINTENANCE STATION	57,281	60,512	60,563	2003	12,604	4.81	49,024	+23.54%
Office								
01 DISTRICT OFFICE	10,023,776	6,670,590	4,586,956	2003	80,800	56.77	11,328,040	-59.51%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
02 - Redding								
Equipment Shop								
02 REDDING EQUIPMENT SHOP				-	35,532	0.00		
02 SUSANVILLE EQUIPMENT SUB-SHOP				-	5,091	0.00		
Lab - District								
02 MATERIALS LAB				-	3,293	0.00		
Maintenance Station								
ADIN MAINTENANCE STATION		111,177	83,717	2003	8,404	9.96	2,330	+3492.39%
ALTURAS MAINTENANCE STATION		252,215	288,246	2007	24,559	11.74	167,734	+71.85%
BARTLE S/S		2,133	1,327	2013	-	-	2,133	-37.76%
BECKWORTH MAINTENANCE STATION		123,699	96,932	2003	8,744	11.09	193,897	-50.01%
BOGARD SANDHOUSE	21,339	14,962	13,218	2003	-	-	19,667	-32.79%
BUCKHORN SANDHOUSE		4,528	348	2006	-	-	24	+1357.14%
BURNEY JUNCTION SAND SALT STORAGE	6,125	6,694	8,878	2003	-	-	14,709	-39.64%
BURNEY MAINTENANCE STATION	1,426,903	1,376,042	678,193	2003	8,112	83.60	215,365	+214.90%
CANBY SAND HOUSE		5,067	2,672	2013	-	-	5,067	-47.27%
CANYON DAM SAND/SALT STORAGE	5,869	495	1,897	2003	-	-	5,940	-68.06%
CASTELLA SANDHOUSE		2,412	3,016	2007	-	-	6,531	-53.81%
CEDAR PASS SANDHOUSE		22,444	7,192	2013	-	-	22,444	-67.95%
CHESTER MAINTENANCE STATION	343,930	325,368	300,802	2004	6,755	44.53	522,991	-42.48%
DEER CREEK S/S				-	-	-		
DORRIS SANDHOUSE		10,198	11,280	2007	-	-	10,031	+12.45%
FREDONYER SANDHOUSE		4,688	7,257	2003	-	-	8,619	-15.80%
GIBSON MAINTENANCE STATION	343,930	325,368	300,802	2004	9,002	33.42	261,496	+15.03%
GRASS LAKE MAINTENANCE STATION		133,750	177,015	2004	10,582	16.73	126,108	+40.37%
GRASSHOPPER SANDHOUSE		8,124	7,175	2003	-	-	5,019	+42.96%
GREENVILLE WYE SANDHOUSE	21,322	21,100	18,039	2003	-	-	14,730	+22.47%
HALLELUJAH JCT SANDHOUSE		20,704	29,896	2003	-	-	24,457	+22.24%
HAT CREEK MAINTENANCE STATION				2003	13,337	0.00	213,632	-100.00%
HATCHET MTN SANDHOUSE	18,756	12,423	16,934	2011	-	-	17,835	-5.05%
HAYFORK MAINTENANCE STATION		146,580	124,743	2006	26,829	4.65	163,776	-23.83%
HILT SANDHOUSE		16,030	12,488	2007	-	-	16,719	-25.31%
JUNCTION 44/36 SAND STORAGE		7,844	16,732	2003	-	-	17,551	-4.67%
LEE'S SUMMIT SANDHOUSE		11,331	4,613	2013	-	-	11,331	-59.29%
MCLOUD SAND HOUSE		9,103	7,906	2007	-	-	7,950	-0.56%
MINERAL MAINTENANCE STATION	165,687	151,220	120,375	2003	14,924	8.07	147,671	-18.48%
MT. SHASTA MAINTENANCE STATION		546,602	480,273	2007	19,350	24.82	441,376	+8.81%
NEWELL MAINTENANCE STATION		106,045	103,998	2007	10,088	10.31	77,111	+34.87%
PLATINA MAINTENANCE STATION	682,158	619,059	614,784	2003	6,966	88.25	525,204	+17.06%
PULGA MAINTENANCE STATION	174,421	191,891	161,865	2003	3,500	46.25	111,504	+45.17%
QUINCY MAINTENANCE STATION	231,521	244,071	323,543	2003	19,957	16.21	353,251	-8.41%
RED BLUFF MAINTENANCE STATION	235,710	225,776	225,143	2003	7,900	28.50	762,204	-70.46%
REDDING MAINTENANCE STATION		567,074	825,431	2003	17,280	47.77	1,243,469	-33.62%
SALT CREEK SAND STORAGE	22,912	21,806	17,394	2003	-	-	3,497	+397.37%
SEMINARY LANDSCAPE MAINTENANCE	28,651	28,415	25,181	2003	1,098	22.93	39,463	-36.19%
SUSANVILLE MAINTENANCE STATION		328,756	902,007	2003	31,609	28.54	680,489	+32.55%
TERMO SAND HOUSE		13,426	12,505	2013	-	-	13,426	-6.86%
TRINITY CENTER MAINTENANCE STATION		125,357	138,664	2006	17,509	7.92	90,623	+53.01%
WEAVERVILLE MAINTENANCE STATION		216,184	210,179	2006	28,042	7.50	67,694	+210.48%
WEED S/S		7,230	1,303	2013	-	-	7,230	-81.97%
WILLOW CREEK SAND STORAGE		10,482	3,647	2003	-	-	3,927	-7.12%
YREKA MAINTENANCE STATION		275,963	301,211	2007	7,906	38.10	262,588	+14.71%
Office								
02 DISTRICT OFFICE	1,648,400	6,473,097	6,456,037	2003	47,851	134.92	6,909,652	-6.56%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) <small>see note 3</small>	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
03 - Marysville								
Equipment Shop								
03 MEYERS EQUIPMENT SUB-SHOP				-	6,460	0.00		
03 TRUCKEE EQUIPMENT SUB-SHOP				-	9,089	0.00		
EQUIPMENT SHOP 03	2,150,881	1,945,601	2,021,817	2003	49,043	41.23	4,178,672	-51.62%
Lab - Field								
ECHO SUMMIT CONSTRUCTION LABORATORY	115,223	178,362	168,549	2003	500	337.10	143,007	+17.86%
Maintenance Station								
12TH AVE HWY MAINT STORAGE SATELLITE	1,082	1,078	1,095	2012	-	-	1,082	+1.26%
12TH STREET MAINTENANCE STATION	231,715	283,797	259,316	2003	1,614	160.67	419,600	-38.20%
2ND ST SATELLITE				-	-	-		
3RD ST SATELLITE				-	180	0.00		
47TH AVE MAINT				-	-	-		
AUBURN MAINTENANCE STATION	808,526	665,366	858,487	2003	7,469	114.94	784,987	+9.36%
CAMINO S/S				-	-	-		
CASTLE PEAK S/S	11,614	11,628	15,548	2012	-	-	11,614	+33.87%
CHICO MAINTENANCE STATION	1,972,622	1,462,492	1,496,677	2003	15,465	96.78	1,114,568	+34.28%
CISCO S/S	98,307	269,268	95,840	2011	-	-	56,755	+68.86%
COLUSA MAINTENANCE STATION	1,361,126	1,273,645	789,658	2003	9,766	80.86	480,265	+64.42%
DOWNIEVILLE MAINTENANCE STATION	293,978	252,488	210,998	2003	10,892	19.37	247,575	-14.77%
EL DORADO S/S				-	-	-		
ELK GROVE MAINTENANCE STATION	376,929	370,688	435,298	2003	7,467	58.30	294,467	+47.83%
EMPIRE ST SATELLITE				-	-	-		
ESPARTO MAINTENANCE STATION	94,593	68,723	61,823	2003	4,336	14.26	234,351	-73.62%
FLORISTON S/S				-	-	-		
GOLD RUN S/S	16,801	9,772	10,546	2011	-	-	22,106	-52.29%
KINGVALE MAINTENANCE STATION	1,823,919	1,976,585	1,757,061	2003	82,440	21.31	2,320,433	-24.28%
KYBURZ MAINTENANCE STATION	356,895	331,844	312,304	2003	12,853	24.30	341,746	-8.62%
MARYSVILLE MAINTENANCE STATION	812,860	694,676	351,881	2003	8,760	40.17	1,055,574	-66.66%
NEVADA CITY (SUTTER/SIERRA REGION) MAINTENANCE	2,402,885	2,421,949	1,598,976	2003	22,378	71.45	2,650,872	-39.68%
NORTHGATE MAINTENANCE STATION	464,564	527,077	446,636	2003	7,535	59.27	422,749	+5.65%
OLD GOLD LAKE RD S/S				-	-	-		
PLACERVILLE MAINTENANCE STATION	416,605	397,720	398,279	2003	10,035	39.69	422,119	-5.65%
RICHARDS BLVD SATELLITE				-	-	-		
RIVERTON S/S	9,441	4,299	6,493	2011	-	-	9,922	-34.56%
ROSEVILLE MAINTENANCE STATION	396,700	536,147	471,739	2003	4,220	111.79	522,001	-9.63%
SIERRAVILLE MAINTENANCE STATION		321,066	361,266	2013	8,516	42.42	321,066	+12.52%
SOUTH LAKE TAHOE MAINTENANCE STATION		1,022,372	1,152,574	2003	16,390	70.32	1,091,567	+5.59%
SPECIAL CREWS MAINTENANCE STATION	1,487,408	1,494,346	1,350,879	2006	35,547	38.00	911,622	+48.18%
SUNRISE MAINTENANCE STATION	917,535	713,911	874,205	2003	19,291	45.32	1,428,133	-38.79%
TAHOE CITY MAINTENANCE STATION		348,297	338,334	2003	5,784	58.49	562,025	-39.80%
TRUCKEE MAINTENANCE STATION		1,227,228	1,243,606	2003	39,875	31.19	5,524	+22412.66%
WEST SACRAMENTO MAINTENANCE STATION	830,417	599,091	338,334	2003	10,742	31.50	358,412	-5.60%
WHITMORE MAINTENANCE STATION	1,129,236	965,460	993,301	2003	56,816	17.48	1,231,050	-19.31%
WILLOWS MAINTENANCE STATION	256,237	250,216	194,247	2003	3,376	57.54	229,742	-15.45%
WOODLAND MAINTENANCE STATION	21,414	17,780	6,790	2003	23,118	0.29	6,889	-1.44%
YUBA ST MAINTENANCE STATION	0	25,010	51,927	2003	2,286	22.72	115,892	-55.19%
Office								
03 DISTRICT OFFICE (OLD COMPLEX, NOW DEMO'D, HOLD FOR HISTORY.)	0			2003	-	-	8,914,303	-100.00%
DISTRICT 03 OFFICE - DMV ANNEX	379,595	397,854	322,447	2003	6,486	49.71	449,508	-28.27%
TMC								
D3 TMC COMMUNICATIONS	18,204,698	11,626,486	5,544,448	2003	34,200	162.12	17,273,497	-67.90%

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District-Facility Type-Facility Name	2012 2013 2014			Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
04 - Oakland								
Equipment Shop								
04 FAIRFIELD EQUIPMENT SUB-SHOP	514,800	507,700	371,000	2011	5,394	68.78	492,800	-24.72%
04 OAKLAND EQUIPMENT SUB-SHOP					17,360	0.00		
04 SAN FRANCISCO EQUIPMENT SUB-SHOP					3,568	0.00		
04 SAN JOSE EQUIPMENT SUB-SHOP					30,745	0.00		
EQUIPMENT SHOP 04	2,317,700	2,547,720	2,435,036	2003	48,040	50.69	2,848,514	-14.52%
Lab - District								
04 MATERIALS LAB	782,003	706,803	596,772	2011	7,600	78.52	680,861	-12.35%
Lab - Field								
ORINDA CONSTRUCTION LABORATORY	56,817	42,394	26,051	2003	1,200	21.71	57,926	-55.03%
Maintenance Station								
ALCOSTA LANDSCAPE STATION	87,661	87,661	76,432	2003	1,424	53.67	80,356	-4.88%
ANTIOCH BRIDGE TOLL PLAZA	1,116,860	1,363,954	1,150,928	2011	6,676	172.40	1,123,606	+2.43%
ANTIOCH SUB YARD SATELLITE					1,800	0.00		
BENICIA MAINTENANCE STATION	117,357	111,205	93,994	2003	-	-	107,436	-12.51%
BODEGA BAY MAINTENANCE STATION	6,616			2003	2,037	0.00	22,888	-100.00%
CALDECOTT TUNNEL	9,637,627	5,433,842		2011	1,616	0.00	9,261,932	-100.00%
CALISTOGA MAINTENANCE STATION	71,096	61,873	45,134	2003	3,387	13.33	98,088	-53.99%
CARQUINEZ TOLL PLAZA MAINT	4,043,705	4,024,067	3,182,234	2011	7,150	445.07	4,347,161	-26.80%
CASTRO VALLEY MAINT					1,386	0.00		
CUPERTINO MAINTENANCE STATION	419,693	370,301	286,190	2003	8,862	32.29	564,901	-49.34%
DELTA REGION MAINTENANCE STATION	585,849	559,483	425,013	2003	2,495	170.35	371,246	+14.48%
DIXON MAINTENANCE STATION	4,094	28,251	91,605	2003	2,966	30.89	45,311	+102.17%
EAST BAY REGION MAINTENANCE STATION	959,285	988,397	916,972	2003	17,198	53.32	1,217,207	-24.67%
FAIRFIELD MAINTENANCE STATION	470,689	434,022	301,383	2003	11,282	26.71	394,134	-23.53%
FORT ROSS MAINTENANCE STATION	194,893	195,712	235,725	2003	7,891	29.87	127,199	+85.32%
FREMONT MAINTENANCE STATION	212,378	173,134	172,484	2003	2,832	60.91	154,739	+11.47%
GEYSERVILLE MAINTENANCE STATION	67,791	45,014	47,144	2003	3,413	13.81	7,600	+520.32%
GILROY MAINTENANCE STATION	0	0	47,857	2014	5,076	9.43	47,857	0.00%
HALF MOON BAY MAINT	117,998	100,628	106,005	2011	2,696	39.32	119,243	-11.10%
HAYWARD MAINTENANCE STATION	69,052	18,307		2003	-	-	289,852	-100.00%
HERCULES MAINTENANCE STATION	70,471	90,166	108,123	2004	6,560	16.48	10	+1056200.00%
KEMPTON MAINT	2,590	2,829	2,484	2011	-	-	2,583	-3.83%
LIVERMORE MAINTENANCE STATION	248,224	263,327	240,238	2003	3,636	66.07	183,779	+30.72%
LOS GATOS SATELLITE					-	-		
MANZANITA MAINTENANCE STATION	150,917	163,089	170,910	2003	5,398	31.66	170,182	+0.43%
MIDDLEFIELD ROAD MAINTENANCE STATION	39,241	35,690	49,194	2003	1,200	41.00	57,124	-13.88%
MILBRAE MAINT	60,229	51,624	46,379	2011	1,320	35.14	58,321	-20.48%
MILPITAS LANDSCAPE MAINTENANCE	73,455	75,560	63,719	2003	1,260	50.57	82,584	-22.84%
NAPA MAINTENANCE STATION	278,602	296,628	280,663	2003	17,026	16.48	469,529	-40.22%
NORTH BAY REGION	449,300	588,981	421,273	2003	13,926	30.25	562,431	-25.10%
POINT REYES MAINTENANCE STATION	38	7	0	2003	2,908	0.00	20	-100.00%
REDWOOD CITY MAINT	132,784	111,470	66,613	2011	7,220	9.23	182,519	-63.50%
RICHMOND CONSTRUCTION LABORATORY	1,370,019	1,442,384	1,119,228	2003	12,550	89.18	1,255,977	-10.89%
RICHMOND-SAN RAFAEL TOLL PLAZA	1,742,167	1,170,589	1,396,600	2011	8,274	168.79	1,568,565	-10.96%
RIO VISTA MAINTENANCE STATION	209,315	238,811	218,540	2003	5,592	39.08	66,900	+226.67%
SAN FRANCISCO MAINT	570,611	569,957	534,794	2011	11,176	47.85	562,434	-4.91%
SAN MATEO PAINT					8,719	0.00		
SAN RAFAEL LANDS					120	0.00		
SAN RAFAEL PAINT SHOP	273	136	682	2011	2,424	0.28	682	0.00%
SANTA CRUZ MAINTENANCE STATION	310,161	282,073	339,090	2003	15,422	21.99	397,908	-14.78%
SANTA ROSA LANDSCAPE STATION	103,957	96,111	74,459	2003	3,416	21.80	75,285	-1.10%
SANTEE MAINTENANCE STATION	635,035	782,999	646,026	2006	13,680	47.22	549,454	+17.58%
SHELLVILLE MAINTENANCE STATION	174	0	0	2003	2,142	0.00	1,911	-100.00%
SEBASTOPOL MAINTENANCE STATION	75,794	60,945	54,452	2003	2,400	22.69	100,313	-45.72%
SEIAD VALLEY MAINTENANCE STATION		3,521	3,258	2007	7,861	0.41	942	+246.01%
SESPE GORGE S/S					-	-		
SKYLONDA STORAGE	8,912	7,616	5,220	2003	-	-	10,216	-48.90%
SOUTH BAY REGION	7,305	89	147	2003	25,756	0.01	56,967	-99.74%
SOUTH OAKLAND MAINTENANCE STATION					32,908	0.00	537,458	-100.00%
SOUTH PETALUMA MAINTENANCE STATION	100,023	84,689	77,340	2003	8,103	9.54	70,656	+9.46%
SOUTH SAN FRANCISCO MAINTENANCE STATION					-	-	80,950	-100.00%
SOUTH SAN JOSE MAINT	486,375	492,714	583,527	2011	26,229	22.25	569,998	+2.37%
SPECIALTY REGION HESPERIAN	1,529,047	1,212,807	1,360,933	2011	29,796	45.68	1,550,157	-12.21%
SPECIALTY REGION MAINT	1,290,698	849,226	754,407	2011	17,596	42.87	1,299,343	-41.94%
STERLING SUB STATION					-	-		
TELEGRAPH MAINT	112,407	93,521	85,182	2011	1,458	58.42	101,694	-16.24%
TOLL BRIDGE REGION MAINT	6,107	3,419	70,799	2012	76,970	0.92	6,107	+1059.22%
TRI-BRIDGE YARD	478,128	457,509	549,106	2011	31,671	17.34	635,813	-13.64%
VALLEJO MAINTENANCE STATION	101,511	91,685	89,615	2003	1,500	59.74	223,768	-59.95%
WALNUT CREEK WEST MAINTENANCE STATION	124,015	141,196	114,015	2003	5,951	19.16	140,662	-18.94%
WEST BAY PAINT	507,011	570,237	372,856	2011	16,475	22.63	529,417	-29.57%
WEST BAY REGION MAINTENANCE STATION	428,902	470,090	503,724	2003	14,117	35.68	496,946	+1.36%
WESTBOROUGH MAINT	13,160	9,745	8,854	2011	912	9.71	14,986	-40.92%
WOODSIDE MAINTENANCE STATION	181,836	833,513	992,219	2003	8,674	114.39	208,370	+376.18%
YERBA BUENA ISLAND					912	0.00		
Office								
04 DISTRICT OFFICE	32,014,406	31,534,069	30,905,754	2003	525,000	58.87	39,330,962	-21.42%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) <small>see note 3</small>	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
Other - Toll Plaza								
ANTIOCH MAINTENANCE STATION	264,019	256,575	230,441	2003	2,600	88.63	338,762	-31.98%
Other - TBTB								
TRANS BAY TERMINAL BUILDING	8,046,301	8,152,916		2003	-		19,004,948	-100.00%

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
05 - San Luis Obispo								
Equipment Shop								
EQUIPMENT SHOP 05 (2501)	707,078	838,638	845,609	2003	25,433	33.25	1,131,381	-25.26%
Lab - Field								
CUESTA GRADE CONSTRUCTION LABORATORY	57,188	28,205	27,867	2003	400	69.67	90,790	-69.31%
Maintenance Station								
BIG SUR MAINT		0	0	-	13,225	0.00		
BUELLTON MAINTENANCE STATION	206,704	115,977	212,529	2003	5,109	41.60	118,561	+79.26%
CAMBRIA MAINTENANCE STATION	242,385	258,662	206,421	2003	8,538	24.18	292,794	-29.50%
CUYAMA MAINTENANCE STATION	98,197	89,005	58,939	2003	7,100	8.30	55,684	+5.85%
EMELINE LANDSCAPE SATELLITE				-	-			
HOLLISTER MAINTENANCE STATION	80,008	60,699	49,198	2003	3,203	15.36	71,587	-31.28%
KING CITY MAINTENANCE STATION	54,865	71,788	56,581	2003	4,120	13.73	79,977	-29.25%
MONTEREY MAINTENANCE STATION	26,951	26,266	84,815	2003	7,610	11.15	68,520	+23.78%
SALINAS MAINTENANCE STATION	359,839	315,126	296,015	2003	17,232	17.18	400,720	-26.13%
SAN LUIS OBISPO MAINT				-	15,509	0.00		
SANTA BARBARA MAINTENANCE STATION	451,495	721,534	349,934	2003	25,395	13.78	357,470	-2.11%
SANTA MARIA MAINTENANCE STATION	201,730	69,001	144,549	2003	16,032	9.02	253,224	-42.92%
SHAVER LAKE MAINTENANCE STATION	219,869	187,049	161,278	2003	8,182	19.71	211,680	-23.81%
TEMPLETON MAINTENANCE STATION	532,088	523,880	423,389	2003	7,046	60.09	408,316	+3.69%
WILLOW SPRINGS MAINT				-	14,053	0.00		
Office								
05 DISTRICT OFFICE	2,642,494	3,071,634	3,198,785	2003	41,700	76.71	3,953,902	-19.10%

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
06 - Fresno								
Equipment Shop								
BAKERSFIELD EQ SUB-SHOP 2 (36-06-02)			236,373	2014	39,740	5.95	236,373	0.00%
EQUIPMENT SHOP 06 (2601)			236,721	2014	33,352	7.10	236,721	0.00%
Lab - District								
06 MATERIALS LAB			-		5,200	0.00		
Maintenance Station								
BAKERSFIELD MAINTENANCE STATION	1,398,239	1,465,847	1,130,878	2011	12,000	94.24	1,081,812	+4.54%
BIG CEDAR SPRINGS MAINT	60,740	44,359	18,725	2011	3,680	5.09	64,504	-70.97%
BODFISH MAINTENANCE STATION	137,964	137,009	124,538	2003	7,492	16.62	176,264	-29.35%
COALINGA YARD MAINTENANCE STATION	193,058	198,507	197,872	2003	2,152	91.95	131,294	+50.71%
COARSEGOLD MAINTENANCE STATION	242,566	188,554	155,147	2003	3,888	39.90	238,567	-34.97%
DELANO MAINTENANCE STATION	133,294	137,780	236,817	2003	8,696	27.23	336,350	-29.59%
FRESNO MAINTENANCE STATION	733,028	623,539	840,993	2011	53,290	15.78	616,056	+36.51%
GLENNVILLE MAINTENANCE STATION	28,555	21,820	14,378	2003	8,216	1.75	36,563	-60.68%
HAPPY GAP S/S	14,706	14,173	16,176	2011	-	-	27,381	-40.92%
HUNTINGTON LAKE SATELLITE MAINT	12,386	68,318	72,201	2013	6,642	10.87	68,318	+5.68%
KETTLEMAN CITY MAINTENANCE STATION	188,335	251,480	216,989	2003	4,700	46.17	281,244	-22.85%
LEMON COVE MAINTENANCE STATION	8,830	7,602	9,417	2005	2,901	3.25	5,661	+66.37%
LEMOORE YARD MAINTENANCE STATION	315,751	301,929	286,131	2003	6,745	42.42	990,247	-71.11%
LOST HILLS MAINTENANCE STATION (SATELLITE)	44,953	17,326	8,772	2004	1,092	8.03	78	+11078.26%
MADERA MAINTENANCE STATION	442,074	585,566	500,417	2003	7,552	66.26	453,287	+10.40%
MCKITTRICK MAINTENANCE STATION	4,163	4,398	5,701	2003	2,088	2.73	4,985	+14.37%
MENDOTA MAINTENANCE STATION	159,698	179,136	147,969	2003	2,676	55.29	161,660	-8.47%
PIERPOINT SPRINGS/CAMP NELSON MAINTENANCE	12,314	14,887	12,727	2003	2,224	5.72	19,691	-35.37%
PINEHURST MAINTENANCE STATION	1,204	1,204	1,204	2003	6,128	0.20	1,201	+0.28%
PORTERVILLE MAINTENANCE STATION	113,193	122,242	203,447	2003	4,720	43.10	162,411	+25.27%
SHERWIN GRAD SAND/SALT STORAGE								
TAFT MAINTENANCE STATION	248,735	263,205	261,114	2003	13,910	18.77	259,994	+0.43%
TULARE MAINT	11,178	367,813	234,339	2013	5,598	41.86	367,813	-36.29%
VISALIA MAINT	20,957	396,153	598,672	2013	12,600	47.51	396,153	+51.12%
WASCO MAINTENANCE STATION	156,375	155,179	133,491	2003	2,624	50.87	100,042	+33.43%
WEST AVENUE MAINTENANCE STATION	57,847	61,392	65,944	2004	27,548	2.39	4,640	+1321.10%
Office								
06 DISTRICT OFFICE	12,630,547	7,367,106	3,912,026	2003	78,000	50.15	13,411,331	-70.83%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012 2013 2014			Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
07 - Los Angeles								
Equipment Shop								
07 COMMERCE EQUIPMENT SUB-SHOP	28,378	5,595,373	613,478	2013	14,600	42.02	5,595,373	-89.04%
07 LOS ANGELES EQUIPMENT SUB-SHOP				-	9,999	0.00		
EQUIPMENT SHOP 07 (2701)	811,100	1,702,607	1,844,200	2008	70,681	26.09	1,027,700	+79.45%
Lab - District								
07 DISTRICT LAB	6,900	2,400		2003	28,200	0.00	597,100	-100.00%
LOS ANGELES LABORATORY/OFFICE				2003	-		884,000	-100.00%
Maintenance Station								
ALAMEDA MAINTENANCE STATION	194,700	311,137	366,364	2003	8,728	41.98	226,700	+61.61%
ALTADENA MAINTENANCE STATION	281,024	217,225	320,261	2003	7,051	45.42	386,246	-17.08%
APPLE LANDSCAPE	24,200	130,492	132,330	2003	864	153.16	20,700	+539.28%
ARTESIA MAINTENANCE STATION	12,500	43,049	43,989	2003	1,716	25.63	12,300	+257.64%
BELLFLOWER MAINTENANCE STATION	165,782	233,936	341,125	2003	5,160	66.11	216,112	+57.85%
BIG SYCAMORE MAINTENANCE STATION	47,031	40,241	45,342	2003	4,438	10.22	38,310	+18.36%
BUENA VISTA MAINTENANCE STATION	16,000	95,168	79,188	2003	1,176	67.34	27,300	+190.07%
BURBANK ELECTRICAL STATION	100	0	0	2003	4,000	0.00	38,000	-100.00%
CEDAR SPRINGS S/S				-	-			
CENTRAL BANDINI MAINTENANCE STATION	1,713,737	1,545,521	1,620,452	2003	56,836	28.51	1,944,304	-16.66%
CENTURY/SOUTH REGION MAINT		592,273	418,494	2013	17,872	23.42	592,273	-29.34%
CERRITOS MAINTENANCE STATION	176,545	159,027	143,826	2003	1,436	100.16	104,021	+38.27%
CHILAO MAINT		74,986	175,261	2013	17,208	10.18	74,986	+133.73%
CULVER CITY MAINTENANCE STATION	124,942	61,327	89,144	2003	864	103.18	125,381	-28.90%
DIAMOND BAR MAINTENANCE STATION	220,971	184,841	109,483	2003	5,120	21.38	325,138	-66.33%
DORAN MAINTENANCE STATION	57,000	0	17,500	2003	864	20.25	132,741	-86.82%
EAST LOS ANGELES MAINT	42,991	1,613,634	243,358	2013	6,040	40.29	1,613,634	-84.92%
FILLMORE MAINTENANCE STATION	147,695	114,336	111,680	2003	3,908	28.58	156,656	-28.71%
FLORENCE AVENUE MAINTENANCE STATION	286,951	244,170	284,525	2003	1,588	179.17	136,091	+109.07%
FOOTHILL MAINTENANCE STATION	311,889	264,662	354,453	2004	14,300	24.79	310,901	+14.01%
FRAZIER MOUNTAIN PARKSAND/SALT STORAGE				2003	-		6,056	-100.00%
HUMPHREY MAINT	4,630	73,093	20,129	2013	864	23.30	73,093	-72.46%
LANCASTER MAINTENANCE STATION	437,811	156,235	226,646	2003	3,600	62.96	327,846	-30.87%
LAS FLORES MAINTENANCE STATION	103,125	97,527	89,568	2003	4,987	17.96	92,074	-2.72%
LEBEC MAINTENANCE STATION 1	2,823,288	130,202	1,227,053	2003	9,000	136.34	308,172	+298.17%
LIEBRE GULCH S/S	365	764	1,805	2012	-		365	+394.39%
LONG BEACH MAINTENANCE STATION	699,750	693,745	713,531	2003	10,726	66.52	754,453	-5.42%
MAINTENANCE EQUIP TRAINING CTR		659,373	370,453	2013	2,880	128.63	659,373	-43.82%
METRO ELECTRICAL		105,973	112,040	2013	8,000	14.00	105,973	+5.72%
MIDDLEBURY MAINT		325,934	49,516	2013	864	57.31	325,934	-84.81%
MISSION HILLS MAINT		16,098	15,323	2013	5,384	2.85	16,098	-4.81%
MOORPARK MAINT	16,251	246,501	225,028	2013	7,390	30.45	246,501	-8.71%
MT WILSON S/S				-	-			
NEWHALL MAINTENANCE STATION/NORTH REGION	252,511	247,124	347,048	2003	8,500	40.83	39,695	+774.28%
NORTH HOLLYWOOD MAINTENANCE STATION	52,100	244,861	224,135	2003	5,652	39.66	71,500	+213.48%
OJAI MAINTENANCE STATION	65,601	1,351	26,601	2003	4,070	6.54	26,920	-1.18%
PACIFIC PLACE MAINTENANCE STATION	118,942	116,284	125,227	2003	1,104	113.43	69,202	+80.96%
POMONA MAINT	423	90,050	36,649	2013	2,192	16.72	90,050	-59.30%
QUAIL LAKE S/S				-	-			
ROSEMEAD MAINTENANCE STATION	302,227	273,313	276,337	2003	3,540	78.06	344,507	-19.79%
SAN FERNANDO MAINTENANCE STATION	78,850	428,343	438,755	2003	7,914	55.44	129,000	+240.12%
SAN GABRIEL ELECTRICAL MAINTENANCE STATION	10,895	8,404	7,691	2003	860	8.94	13,136	-41.45%
SAN PEDRO MAINTENANCE STATION	284,100	215,000		2003	-		310,000	-100.00%
SANTA PAULA MAINT	3,187	196,511	73,168	2013	999	73.24	196,511	-62.77%
SHANDON MAINTENANCE STATION	62,917	47,519	6,984	2003	2,560	2.73	70,697	-90.12%
SILVERLAKE MAINTENANCE STATION	469,100	437,247	386,595	2003	24,816	15.58	12,100	+3095.00%
TARZANA MAINTENANCE STATION	44,200	281,928	195,727	2003	7,630	25.65	52,200	+274.96%
TEJON MTN S/S				-	-			
TERMINAL ISLAND MAINT		207,349	123,111	2013	4,363	28.22	207,349	-40.63%
TORRANCE MAINTENANCE STATION	98,797	20,803	45,930	2003	6,145	7.47	189,271	-75.73%
VALENCIA & NORTH REGION MAINT	20,851	277,396	261,503	2013	20,832	12.55	277,396	-5.73%
VENTURA MAINTENANCE STATION	164,264	176,387	171,583	2003	5,416	31.68	145,249	+18.13%
VENTURA REGION OFFICE	127,418	117,786	104,774	2003	19,707	5.32	101,377	+3.35%
VICTORVILLE MAINTENANCE STATION	176,667	1,058,922	667,715	2003	7,004	95.33	227,935	+192.94%
VINCENT S/S	4,265	25,856	17,913	2013	-		25,856	-30.72%
VINCENT THOMAS BRIDGE MAINTENANCE STATION (PAINT)	240,250	376,200	320,500	2006	7,460	42.96	230,500	+39.05%
WARD ROAD S/S	2,559	20,080	10,229	2013	-		20,080	-49.06%
WEST REGION MAINTENANCE STATION	474,144	348,464	556,689	2003	15,680	35.50	425,507	+30.83%
WESTDALE MAINT		961,769	420,587	2013	10,120	41.56	961,769	-56.27%
WHITTAKER SUMMIT S/S				-	-			
WHITTIER AND EAST REGION MAINTENANCE STATION	531,539	628,578	449,057	2003	15,388	29.18	369,260	+21.61%
WILLOW ST. ELECTRICAL CREW	226,137	463,695	177,082	2003	2,416	73.30	182,385	-2.91%
Office								
07 DISTRICT OFFICE	40,294,779	34,787,085	36,968,025	2005	716,200	51.62	44,513,579	-16.95%
Other - RE Office								
WESTWOOD CONSTRUCTION OFFICE	202,417	218,825	158,266	2003	1,431	110.60	12,078	+1210.31%
TMC								
LOS ANGELES REGIONAL TMC	10,491,100	29,996,939	6,125,000	2008	82,300	74.42	10,187,400	-39.88%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
08 - San Bernardino								
Equipment Shop								
08 BARSTOW EQUIPMENT SUB-SHOP	95,632	494,801	500,875	2013	8,400	59.63	494,801	+1.23%
EQUIPMENT SHOP 08 (2801)	3,147,722	3,028,548	2,100,455	2003	34,503	60.88	2,203,039	-4.66%
Lab - District								
08 OLD MATERIALS LAB		59,778		2013	5,870	0.00	59,778	-100.00%
08 SOUTHERN REGION LAB	188,523	4,442,326	4,085,598	2013	67,000	60.98	4,442,326	-8.03%
Maintenance Station								
BANNING MAINTENANCE STATION	201	7	0	2003	8,643	0.00	474	-100.00%
BARSTOW MAINTENANCE STATION	363,231	2,149,412	1,285,560	2003	13,656	94.14	509,207	+152.46%
BEECHERS CORNER MAINTENANCE STATION	586,781	587,813	545,051	2003	6,760	80.63	699,689	-22.10%
BLYTHE MAINTENANCE STATION	261,485	164,626	183,460	2003	5,968	30.74	183,329	+0.07%
BURNT MILL MAINTENANCE STATION	865,413	914,884	584,563	2003	9,743	60.00	518,806	+12.67%
CAJON MAINTENANCE STATION	725,818	628,487	716,749	2003	13,139	54.55	680,216	+5.37%
CAJON PASS S/S	3,596	22,792	12,427	2013	-	-	22,792	-45.48%
CAMP ANGELUS MAINTENANCE STATION	382,547	463,578	384,737	2003	10,082	38.16	171,146	+124.80%
CORONA MAINTENANCE STATION	334,734	255,705	201,464	2003	4,356	46.25	202,196	-0.36%
DAWSON SUMMIT S/S				-	-	-		
DESERT CENTER MAINTENANCE STATION	160,173	202,689	243,056	2003	12,594	19.30	200,993	+20.93%
DRY CREEK MAINT		3,752,930	803,102	2013	8,484	94.66	3,752,930	-78.60%
ELSINORE MAINTENANCE STATION	366,191	349,911	266,002	2003	3,736	71.20	355,888	-25.26%
ESSEX MAINTENANCE STATION	175,244	180,174	184,760	2003	10,972	16.84	220,825	-16.33%
FAWNSKIN MAINTENANCE STATION		0	0	2003	14,807	0.00	106,352	-100.00%
HEMET MAINTENANCE STATION	322,529	328,248	270,056	2003	5,541	48.74	341,981	-21.03%
INDIO MAINTENANCE STATION	57,700	130,543	427,558	2003	10,269	41.64	237,025	+80.39%
KEEN CAMP		143,031	130,202	2013	11,586	11.24	143,031	-8.97%
LAKEVIEW POINT SATELLITE				-	-	-		
MAGANA ORTEGA	42,172	712,236	766,896	2013	36,372	21.08	712,236	+7.67%
MOUNTAIN PASS	16,889	198,906	131,836	2013	14,543	9.07	198,906	-33.72%
NEEDLES MAINTENANCE STATION		400,399	284,451	2003	8,191	34.73	165,414	+71.96%
ONTARIO MAINTENANCE STATION	192,737	60,921	130,146	2003	8,236	15.80	110,495	+17.78%
PARADISE VALLEY MAINTENANCE STATION	244,699	260,485	261,028	2003	3,822	68.30	540,876	-51.74%
RIVERSIDE MAINTENANCE STATION		386,440	415,288	2003	14,952	27.77	409,867	+1.32%
SAN BERNARDINO MAINTENANCE STATION	879,794	965,205	761,417	2003	24,462	31.13	866,346	-12.11%
VIDAL MAINT		133,921	146,689	2013	3,877	37.84	133,921	+9.53%
Office								
08 DISTRICT OFFICE (SAN BERNARDINO GOV'T CENTER OFFICE BLDG)	36,672,398	35,439,569	35,608,743	2003	235,714	151.07	26,757,047	+33.08%
Other								
08 IND ASSURANCE BLDG					-	13,450	0.00	
TMC								
08 INLAND EMPIRE TMC (SAN BERNARDINO)		7,769,606	9,954,873	2013	43,000	231.51	7,769,606	+28.13%

Caltrans Facilities Energy Report

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District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBtu/sq ft)	Baseline Energy (kBtu) ^{see note 3}	2014 Change from Baseline Energy
	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)					
09 - Bishop								
Equipment Shop								
09 BISHOP EQUIPMENT SHOP				-	23,829	0.00		
Maintenance Station								
BISHOP MAINTENANCE STATION	398,429	479,724	779,055	2003	43,810	17.78	523,162	+48.91%
BRIDGEPORT MAINTENANCE STATION	392,571	343,936	281,005	2003	11,171	25.15	253,716	+10.76%
CONWAY SUMMIT SAND STORAGE				2003	-		39,545	-100.00%
CRESTVIEW MAINTENANCE STATION	253,945	224,523	108,809	2003	7,543	14.43	313,085	-65.25%
DEATH VALLEY MAINTENANCE STATION	103,326	90,462	111,419	2003	10,906	10.22	92,574	+20.36%
INDEPENDENCE MAINTENANCE STATION (OPEN)		134,218	344,748	2013	5,224	65.99	134,218	+156.86%
INYOKERN MAINTENANCE STATION	319,005	321,288	294,299	2003	3,040	96.81	270,230	+8.91%
LEE VINING MAINTENANCE STATION	345,021	53,190	50,730	2003	9,590	5.29	404,800	-87.47%
LONE PINE S/S				-	-			
MCGEE MAINTENANCE STATION	594,616	578,344	610,646	2003	3,324	183.71	460,893	+32.49%
MINARET SATELLITE	178,690	160,115	162,735	2003	6,130	26.55	131,703	+23.56%
MOJAVE MAINTENANCE STATION	239,195	221,797	203,628	2003	8,010	25.42	148,913	+36.74%
SHINGLETOWN SAND HOUSE	32,967	39,818	19,452	2003	-		47,004	-58.62%
SHOSHONE MAINTENANCE STATION	149,681	144,362	257,166	2003	5,234	49.13	191,208	+34.50%
SONORA JUNCTION MAINTENANCE STATION	485,862	476,073	477,591	2003	4,500	106.13	256,309	+86.33%
TEHACHAPI MAINTENANCE STATION	24,966	24,972	24,686	2003	4,688	5.27	17,367	+42.14%
TEHACHAPI SAND STORAGE	38,481	20,861	11,004	2004	-		949	+1060.07%
Office								
09 DISTRICT OFFICE	2,714,287	2,925,759	3,795,908	2003	25,236	150.42	3,433,543	+10.55%

Caltrans Facilities Energy Report

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
10 - Stockton								
Equipment Shop								
10 STOCKTON EQUIPMENT SHOP				-	24,396	0.00		
Lab - District								
10 LAB				-	4,500	0.00		
Maintenance Station								
ALTAVILLE COMMAND TRAILER	2,252	1,747	2,235	2003	200	11.17	1,324	+68.81%
ALTAVILLE MAINTENANCE STATION	202,799	186,807	198,159	2003	16,217	12.22	182,610	+8.51%
ALTAVILLE OFFICE BUILDING	60,249	62,508	62,399	2003	2,000	31.20	59,464	+4.93%
CABBAGE PATCH MAINTENANCE STATION	460,620	441,922	482,593	2003	17,779	27.14	342,019	+41.10%
CAMP CONNELL MAINTENANCE STATION	499,244	479,359	518,467	2003	16,949	30.59	405,892	+27.74%
CAPLES LAKE MAINT				-	24,043	0.00		
COULTERVILLE MAINTENANCE STATION	97,682	88,166	103,776	2003	4,580	22.66	37,392	+177.53%
GROVELAND MAINTENANCE STATION	202,482	202,328	191,127	2003	9,337	20.47	181,976	+5.03%
IONE MAINTENANCE STATION	228,234	505,349	426,879	2003	5,817	73.38	145,420	+193.55%
LODI MAINTENANCE STATION	322,800	362,818	371,663	2003	4,391	84.64	246,659	+50.68%
LONG BARN MAINTENANCE STATION	250,031	228,468	247,066	2003	8,849	27.92	267,364	-7.59%
LOS BANOS MAINTENANCE STATION	343,945	257,029	243,386	2003	3,480	69.94	197,342	+23.33%
MERCED MAINTENANCE STATION	345,567	333,700	298,574	2003	18,500	16.14	356,759	-16.31%
MIDPINES MAINTENANCE STATION	263,406	263,679	256,176	2003	11,148	22.98	180,154	+42.20%
MILT'S PLACE S/S				-	-			
MODESTO MAINTENANCE STATION	380,500	440,921	310,777	2003	10,990	28.28	553,494	-43.85%
MUD SPRINGS S/S				-	-			
PATTERSON MAINTENANCE STATION	376,700	746,731	329,200	2003	4,990	65.97	73,800	+346.07%
PEDDLER HILL MAINT				-	18,972	0.00		
PICKETS S/S				-	-			
PINE GROVE MAINTENANCE STATION	165,339	155,860	141,451	2003	8,705	16.25	109,317	+29.40%
PINECREST SAND STORAGE	34,318	35,918	36,556	2003	2,100	17.41	20,452	+78.75%
SONORA MAINTENANCE STATION	181,273	182,542	137,350	2003	4,721	29.09	141,939	-3.23%
SOULSBYVILLE S/S	3,576	3,521	2,006	2011	-		3,088	-35.03%
STOCKTON LANDSCAPE	84,681	85,685	65,723	2003	1,200	54.77	97,447	-32.56%
STOCKTON MAINTENANCE STATION	2,285,839	2,294,384	2,283,140	2003	36,563	62.44	2,141,696	+6.60%
STOCKTON MAINTENANCE STATION 1690	326,002	319,068	287,663	2003	1,200	239.72	290,894	-1.11%
TIP TOP SAND STORAGE	13,228	13,464	14,423	2003	-		9,649	+49.47%
TRACY MAINTENANCE STATION	140,438	144,300	131,969	2003	4,684	28.17	110,182	+19.77%
WEST POINT MAINTENANCE STATION	91,489	82,888	75,197	2003	3,074	24.46	106,318	-29.27%
WOODFORDS MAINTENANCE STATION		278,010	414,080	2003	11,252	36.80	331,919	+24.75%
Office								
10 DISTRICT OFFICE	3,585,572	3,154,560	3,038,099	2003	64,574	47.05	7,572,244	-59.88%

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	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)					
11 - San Diego								
Equipment Shop								
11 EL CENTRO SUB-SHOP		137,162	220,872	2013	4,202	52.56	137,162	+61.03%
11 SAN DIEGO EQUIPMENT SHOP		820,323	708,672	2013	31,800	22.29	820,323	-13.61%
Lab - District								
11 KEARNEY MESA LAB				-	12,710	0.00		
Maintenance Station								
BOULEVARD MAINTENANCE STATION	206,221	205,539	180,290	2006	8,311	21.69	78,067	+130.94%
BRAWLEY MAINTENANCE STATION	16,500	80,562	83,043	2003	8,787	9.45	30,100	+175.89%
CAMINO DEL RIO MAINTENANCE STATION	99,250	48,468	71,328	2006	1,222	58.37	55,217	+29.18%
CARLSBAD MAINTENANCE STATION	541,571	86,300	285,268	2006	8,734	32.66	318,733	-10.50%
CHOLLAS MAINT		88,538	69,823	2013	2,580	27.06	88,538	-21.14%
CHULA VISTA MAINTENANCE STATION	94,348	159,156	104,838	2006	12,175	8.61	127,159	-17.55%
DESCANSO MAINTENANCE STATION	156,270	158,044	146,852	2006	15,863	9.26	148,217	-0.92%
EL CENTRO MAINTENANCE STATION		198,203	305,545	2013	13,839	22.08	198,203	+54.16%
ESCONDIDO MAINTENANCE STATION	192,167	135,876	144,028	2006	9,924	14.51	179,102	-19.58%
IMPERIAL AVENUE MAINTENANCE STATION	55,120	69,810	68,595	2006	2,300	29.82	33,049	+107.56%
KEARNEY MESA MAINTAINANCE STATION	10,127,032	1,170,214	1,782,962	2006	96,547	18.47	7,479,859	-76.16%
LAKE HENSHAW, SANTA YSABEL, MAINTENANCE	94,035	130,475	75,746	2006	4,622	16.39	107,000	-29.21%
MIDWAY WELLS MAINTENANCE STATION		70,594	66,295	2013	4,967	13.35	70,594	-6.09%
OTAY MAINTENANCE STATION	46,635	50,917	58,127	2006	2,639	22.03	41,831	+38.96%
PACIFIC HIGHWAY MAINTENANCE STATION	46,133	59,638	61,259	2006	1,392	44.01	43,136	+42.01%
RAMONA MAINT				-	1,515	0.00		
SAN DIEGO/CORONADO MAINTENANCE STATION	215,956	324,063	185,980	2006	5,466	34.02	181,885	+2.25%
SARATOGA GAP SAND/SALT STORAGE	19,233	19,530	18,981	2003	-		4,084	+364.75%
SOUTH ELECTRICAL		2,035,279	1,836,076	2013	4,260	431.00	2,035,279	-9.79%
Office								
11 OFFICE (OLD)				-	272,686	0.00		
Other								
11 ARCHAEOLOGY BUILDING		84,955	71,976	2013	2,345	30.69	84,955	-15.28%
TMC								
11 SAN DIEGO TMC		8,005,068	7,402,914	2013	60,245	122.88	8,005,068	-7.52%

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)					
12 - Irvine								
Equipment Shop								
12 ORANGE EQUIPMENT SHOP	430	5,115	5,104	2013	5,500	0.93	5,115	-0.20%
Maintenance Station								
BATAVIA MAINTENANCE STATION	512,992	435,422	636,600	2003	79,551	8.00	804,249	-20.85%
BOLSA CHICA		321,091	177,422	2013	1,753	101.21	321,091	-44.74%
BREA MAINTENANCE STATION	150,775	151,415	153,181	2003	5,000	30.64	158,597	-3.42%
COSTA MESA	264,098	290,141	544,909	2003	17,664	30.85	444,129	+22.69%
HUNTINGTON BEACH FIELD OFFICE		283,247	214,854	2003	2,880	74.60	14,300	+1402.47%
MARINE WAY MAINT	40,275	864,806	695,555	2013	14,011	49.64	864,806	-19.57%
ORANGE MAINTENANCE STATION	683,401	459,400	712,087	2003	11,802	60.34	597,475	+19.18%
SAN JUAN CAPISTRANO MAINTENANCE STATION	272,515	168,416	184,909	2006	7,315	25.28	116,827	+58.28%
STANTON MAINTENANCE STATION	204,538	181,253	171,066	2003	3,521	48.58	109,157	+56.72%
TOLL ROAD MAINT	38,815	524,295	553,972	2013	12,987	42.66	524,295	+5.66%
TMC								
D12 TMC	598,188	7,460,783	9,988,133	2013	44,000	227.00	7,460,783	+33.88%

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	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)					
HQ - Sacramento								
Equipment Shop								
HEADQUARTERS EQUIPMENT SHOP	8,090,227	7,469,040	7,144,807	2003	85,027	84.03	11,314,383	-36.85%
Lab - HQ								
TRANSPORTATION LABORATORY	12,958,180	12,726,670	13,686,396	2003	171,195	79.95	19,200,018	-28.72%
Office								
005 DOT HEADQUARTERS OFFICE BUILDING	17,917,924	15,539,026	15,674,099	2003	462,392	33.90	45,287,557	-65.39%
Other - Warehouse								
ROYAL OAKS WAREHOUSE	2,151,891	2,150,401	1,895,415	2003	102,558	18.48	2,532,778	-25.16%
(blank)								
(blank)								
(blank)								
Grand Total	339,442,832	381,895,468	323,503,444	772103	7,114,752	45.47	463,304,927	-30.17%

Appendix F - Energy – Reduce Grid-Based Energy Purchased by 20% by 2018

Energy Efficiency Projects

Energy Efficiency Projects

Facilities:

- Headquarters and Statewide –
 - In 2012, DOM purchased \$2 million LED light fixtures to replace inefficient cobra head overhead lighting and building wall packs outdoors at Maintenance Station yards statewide. Currently, 100% of the Maintenance Station LED fixtures have been delivered, 18% have been installed.
 - The Sacramento Headquarters DOE office building was retrofitted with a modernized HVAC system in 2014.
 - The Sacramento Royal Oaks Warehouse lighting was retrofitted in January 2012. The Sacramento Municipal Utility District (SMUD) utilized stimulus funding to replace approximately 130 less efficient, 400-watt, high intensity discharge lighting fixtures with T-5 fluorescent lighting fixtures.
 - In 2014, approximately 9,000 Light-Emitting Diode (LED) luminaries were installed at the Sacramento Headquarters office building. This will result in a savings of 50% lighting electrical costs over the T-8 and T-12 fluorescent lights. Furthermore the longer useful life reduces replacement costs.
 - In 2015, approximately 61,000 LED luminaries were installed in Caltrans statewide district headquarters office buildings.
 - The Headquarters Shop and the Field Shops are all installing or have installed LED shop lighting which will result in an energy savings of roughly 40%, for example, Shop 6 in August 2015 converted 251 lamps to LED lights, and the Headquarters Shop in October 2015 converted 584 light fixtures that includes 2,614 LED bulbs
- District 2 –
 - Contract to replace the fluorescent lights (with LEDs) in the equipment bays at Adin, Yreka, and Grass Lake. Additionally, there is a day labor project that will install LEDs in the old equipment barn at Hayfork MS.
 - D2 (Redding) lab - New windows throughout Lab for energy efficiency
- District 3 -
 - TransLab - Repair/Relamp Exterior Lighting with LED – FY 15/16
- District 4 –
 - HVAC replacement at Antioch Toll Plaza – March 2015 – 50%
 - HVAC replacement at Carquinez Toll Plaza – June 2014– 50%
 - HVAC replacement at SMHB Mtce – May 2013– 50%
 - HVAC replacement SFO Mtce – Oct 2014– 50%
 - HVAC replacement Alemany Mtce – January 2016– 50%
 - HVAC replacement Sebastopol Mtce – February 2016– 50%
 - D4 (San Bruno) lab- Insulation (double pane windows) for energy efficiency

- District 5-
 - Shop 5 - 2014 – New High Efficiency Heater Installed in Front Office (35% energy & gas savings)
- District 7 –
 - Cobra Heads -242, Building wall packs in Mtce. Stations -213
 - D7 (Sylmar) Equipment Shop Repair/Relamp Sylmar LED Lighting FY 15/16
- District 8 –
 - Inland Empire TMC - SCE Savings by Design program helped Caltrans achieve a 20% savings overall in energy
 - Upgrade building and parking lot lighting to LED FY 15/16
- District 11 -
 - Boulevard MS- Upgrade roof, May 2015, Upgrade HVAC, May 2015
 - Carlsbad MS- Upgrade roof, May 2013
 - Coronado/San Diego MS- Upgrade roof, May 2013, Install HVAC men's locker room, May 2013
 - Chula Vista MS- Upgrade roof, July 2014, Upgrade HVAC 2 supervisor's offices, July 2014
 - Descanso MS- Upgrade roof maintenance building, August 2010, Upgrade roof warehouse and superintendent's office, September 2012
 - District 11 District Office, Install electric vehicle charging stations, completion date December 2015
 - El Centro MS- Construct new maintenance station LEED silver, completion date September 2016
 - Escondido MS- Upgrade HVAC 3 supervisor's offices and one crew room, October 2015
 - Lake Henshaw MS- Upgrade roof, January 2011, Upgrade HVAC, November 2015
 - Midway MS- Upgrade roof, May 2013, Upgrade HVAC, May 2013, Replace 600' leaking water line from canal, May 2013, Upgrade roof consists of placing an induction adhered thermoplastic polyolefin roofing system which includes 2" of insulation and ½" cover board over existing metal roofs, Upgrade HVAC consists of replacing old, inefficient window AC units with a Fujitsu 24k BTU heating and AC unit.
 - In District 11's TMC, the hallway lighting was retrofitted from 42 watts to LED lighting and the lobby compact fluorescent bulbs retrofitted to LED lighting in 2015.
 - District 11 (San Diego) TMC, future plans include changing lighting in offices and larger rooms to linear LED bulbs. Changing the flag pole lighting unit that burns high energy. Air handlers for heating, ventilating and air-conditioning (HVAC) need to be replaced with more efficient units.
- District 12 –
 - Received and installed a total of 5576 LED lights (including 110 wall pack, 98 cobra heads) from 2011 through 2014, no HVAC upgrades.

Roadway Lighting:

- In 2012, DOM ordered 52,000 cobra-head LED luminaries for roadway lighting to replace the high pressure sodium fixtures. This number has been increased to 80,000 through 2015 and approximately 50,000 have been replaced. This will result in an overall reduction in system usage by 35% and a 53% reduction for installed locations. The installation/replacement of the LED fixtures is scheduled to be completed by the end of 2017.

**Appendix G - Reduce Grid-
Based Energy Purchased by
20% by 2018**

Computer Server Rooms

#	ORGANIZATION	CONTACT	LOCATION	DO REPORTING ADDRESS	SIZE (sq. ft.)	POWER CONSUMPTION
1	IT/CSD/D03	Darrin Scheive	Marysville DO 3	703 B street, Marysville, CA 95901	1800	30 KVA
2	IT/CSD/D04	Sam Retta	District Office 4	111 Grand Avenue, Oakland, CA 94612	2200	297 KVA (?)
3	IT/CSD/D07	Valerie Rodriguez	District Office 7	100 S Main St. Los Angeles, CA 90012	4400	80 KW
4	IT/CSD/D08	Joe Dominguez	District Office 8	464 W. 4th Street, San Bernardino, CA 92401	1792	19.5 KVA
5	IT/CSD/D11	Ruben Gonzales	District Office 11	4050 Taylor Street, San Diego, CA 92110	1760	33 KVA / 27kW
6	IT/CSD/D12	Richard Decker	District Office 12	3347 Michelson Drive, Irvine, CA 92612	4116	21 KVA / 15KW
7	IT/CSD/D01	Kevin Danel	District Office 1	1656 Union Street, Eureka, CA 95501	<1000	NA
8	IT/CSD/D02	Dennis Rice	District Office 2	1657 Riverside Drive, Redding CA 96001	<1000	NA
9	IT/CSD/D03	Darrin Scheive	Venture Oaks II DO 3	2379 Gateway Oaks Drive # 150, Sacramento, CA 95833	<1000	NA
10	IT/CSD/D05	Mike Counts	Atoll Facility DO 5	1150 Laurel Lane, San Luis Obispo, CA 93401	<1000	NA
11	IT/CSD/D05	Mike Counts	District Office 5	50 Higuera Street, San Luis Obispo, CA 93401	<1000	NA
12	IT/CSD/D06	Kevin Ross	District Office 6	1352 W. Olive Ave., Fresno, CA 93728	<1000	NA
13	IT/CSD/D06	Kevin Ross	Manchester Office DO 6	2015 E. Shields, Ste A-100, Fresno, CA 93726	<1000	NA
14	IT/CSD/D06	Kevin Ross	Tower Office DO 6	855 M St., Fresno, CA 93721	<1000	NA
15	IT/CSD/D09	Dale Russell	District Office 9	500 S Main Street, Bishop, CA 93514	<1000	NA
16	IT/CSD/D10	Emmil Simeroth	District Office 10	1976 E. Dr. Martin Luther King Jr. Blvd. Stockton, CA 95205	<1000	NA
	OGANIZATION	CONTACT	LOCATION	TMC REPORTING ADDRESS	SIZE (sq. ft.)	POWER CONSUMPTION
17	TMC	Mike Jenkinson	D1	1656 Union / Eureka, CA 95501	<1000	NA
18	TMC	Mike Jenkinson	D2	1657 Riverside Drive/ Redding, CA 96001	<1000	NA
19	TMC	Mike Jenkinson	D3	3165 Gold Valley Drive / Rancho Cordova, CA 95742	<1000	NA
20	TMC	Mike Jenkinson	D4	111 Grand Avenue / Oakland, CA 94612	<1000	NA

21	TMC	Mike Jenkinson	D5	50 Higuera Street / San Luis Obispo, CA 93401	<1000	NA
22	TMC	Mike Jenkinson	D6	1352 West Olive Avenue / Fresno, CA 93728	<1000	NA
23	TMC	Mike Jenkinson	D7	2901 West Broadway / Los Angeles, CA 90041	1200	?
24	TMC	Mike Jenkinson	D8	13892 Victoria Street / Fontana, CA 92336	<1000	NA
25	TMC	Mike Jenkinson	D9	500 S. Main / Bishop, CA 93514	<1000	NA
26	TMC	Mike Jenkinson	D10	1976 E. Dr Martin Luther King Jr Boulevard / Stockton, CA 95205	<1000	NA
27	TMC	Mike Jenkinson	D11	7183 Opportunity Road / San Diego, CA 92111	1200	43KW
28	TMC	Mike Jenkinson	D12	6681 Marine Way / Irvine, CA 92618	1000	28 KW
	OGANIZATION	CONTACT	LOCATION	HQ, Farmers and Satellite Office Reportings ADDRESS	SIZE (sq. ft.)	POWER CONSUMPTION
29	Caltrans IT	Jay Tinker	HQ	1120 N Street, Sacramento CA 95814	2584	UPS 1 Load: 20 KVA / 20KW UPS 2 Load: 10 KVA / 15 KW
30	Caltrans IT	Jay Tinker	Farmers (FMP 1)	1801 30th Street, MS, Sacramento CA 95816	1102	UPS 37 KVA / 35 KW

**Appendix H - Reduce Grid-
Based Energy Purchased by
20% by 2018**

**Management Memo 14-09:
State Report on Tech 408 PUE
Reporting: Signed Tech 408**

Management Memo 14-09: State Report on Tech 408 PUE Reporting: Signed Tech 408

Department	Computer room Location	Total Computer Room Input (kW)	Computer Room UPS Output (kW)	PUE	MM Target Reached?	Energy Efforts Planned to Reduce PUE	Contact
Department of Transportation- Sacramento	1801 30th street, 95816	Unknown	35	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Jay Tinker
Department of Transportation- Sacramento	1120 N. Street 95814	Unknown	20	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Jay Tinker
Department of Transportation- Irvin- District 12	6681 Marine Way, 92618	Unknown	28	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Mike Jenkinson
Department of Transportation- Marysville- District 12	703 B street, 95901	Unknown	24	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Darin Scheive
Department of Transportation- LA- District 7	100 S Main Street, 90012	Unknown	80	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Valerie Rodriguez

Department of Transportation- Oakland District 4	111 Grand Avenue, 94612	Unknown	238	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Sam Retta
Department of Transportation- San Diego District 11	4050 Taylor Street, 92110	Unknown	26	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Ruben Gonzales
Department of Transportation- San Bernardino District 8	464 W. 4th Street 92401	Unknown	16	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Joe Dominguez
Department of Transportation- San Diego District 11	7183 Opportunity Rd 92111	Unknown	43	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Mike Jenkinson
Department of Transportation- Irvine District 12	3347 Michelson Drive, 92612	Unknown	17	NR	No	Migration from physical to virtual servers. Use of virtual technologies such as virtual networking appliances, virtual storage and appliances, and engineering solutions with convergence and consolidation	Richard Decker

Appendix I – Demand Response

Building Management System (BMS) Survey Results

Cal Trans Building Management System (BMS) Survey

District Information							BMS Information								
							Vendor Contact Information				How is BMS Used/Maintained?				
District	Building Address	Survey Respondent Name	Respondent Phone #	BMS Used? (Y/N)	Approximate # of years in use?	Does it control Physical Building Security?	System Brand	System Model	Vendor Name	Vendor Phone #	Who Adjusts it?	Who Fixes It?	Password Protected?	How Often is Password Changed	Are Adjustments & Repairs Performed Remotely?
1	1656 Union Street Eureka, CA 95502	Brenda Hall	(707) 445-6454	Y	1	No	Johnson Controls	Metasys	Johnson Controls	(541) 857-5112	On-Site Caltrans Stationary Engineer	Johnson Controls under warranty	Yes	Never	Both On-Site and remotely
2	1657 Riverside Drive Redding, CA 96001	Cindy Copeland	(530) 225-3071	Y	2	No	Allerton	Backtalk	L&H Airco	(916) 677-1000	Stationary Engineer & Maintenance Mechanic	L&H AirCo.	Yes	Every couple of months	Yes, both on-site
3	703 "B" Street Marysville, CA 95901	Susan Garibay	(530) 741-4528	Y	7	Yes	Bosch		DGS	(530) 740-4958	On-Site DGS Stationary Engineer	Various Vendors	Yes	Never	Both
4	111 Grand Avenue Oakland, CA 94623	Walter Garcia	(510) 622-8858	Y	< 1	No	Honeywell	Comfort Point Open	Honeywell	(650) 918-3200	DGS	Honeywell Building Solutions	Yes	Once	Yes - via Non-CT Network connected DSL
5	50 Higuera Street San Luis Obispo, CA 94623	Vince Zorn	(805) 549-3119	Y	5+	No	San Luis Mechanical	N/A	N/A	N/A	On-site Stationary Engineer	Central Coast Mechanical	Yes	When an employee leaves. Each operator has individual p/w. Vendor is not	No
6	1352 W. Olive Ave. Fresno, CA 93728	Pamela Runge	(559) 253-9660	Y	18	No	Allerton	Backtalk	L&H Airco	(559) 253-9660	On-site Stationary Engineer	L&H Airco	Yes	Once	No
7	100 S. Main Street Los Angeles, CA 90012	Marcus Atkins	(213) 897-0089	Y	10	No	Honeywell EBI	LON & Excel 5000	Honeywell	(714) 562-3030	On-Site DGS Stationary Engineer	Honeywell	Yes	Users have never updated passwords for onsite PC. Laptop for remote access is updated every 90 days.	Remote & On-site by DGS Staff
7	13204 Golden State Road Sylmar, CA 91342	Keith Duncan	(916) 227-9506	Y	7	No	Echelon	i.LON 100e3	Source Refrigeration & HVAC	(888) 334-7666	Shop Superintendent	Carrier	Yes	Once	On-site
8	464 W. 4th Street San Bernardino, CA 92402	Jose Estrada	(909) 383-5335	Y	18	No	Supervision	Web-Control	Automated Logic	(877) 786-2332	On-site Stationary Engineer	Sunbelt Cont	Yes	Once	On-site only
11	4050 Taylor Street San Diego CA, 92110	Denella Buchanan	(619) 688-6671	Y	9	No	Metasys	Johnson Controls Inc	DGS, Central Plant	(619) 688-4290	On-Site DGS Stationary Engineer	JCI	Yes	Once	Yes
11	4050 Taylor Street San Diego CA, 92110	Denella Buchanan	(619) 688-6671	Y	9	Yes	P2000	Johnson Controls Inc	DGS, Central Plant	(619) 688-4290	On-Site DGS Stationary Engineer	JCI	Yes	Once	Yes
HQ	3400 R Street (Equipment Shop) Sacramento, CA 95815	Keith Duncan	(916) 227-9506	Y	<3 months	No		for HVAC System	Clarke and Rush	(916) 609-2625	Clarke and Rush/CT staff	Clarke and Rush	Yes	Once	Adjustments made off site
HQ	5900 Folsom Blvd (Trans Lab) Sacramento, CA 95815	Ralph Goulding	(916) 227-7136	Y	5	No	Johnson	Metasys	Johnson Controls	(414) 524-4000	DGS Stationary Engineer & Climatek	Climatek	Yes	Once	Remotely & Onsite
HQ	1120 N St (Headquarters Bldg.) Sacramento, CA 95815	Paul Little	(916) 798-8194	Y	5	No	Allerton	Backtalk	DGS, Central Plant	(916) 322-3880	On-Site DGS Stationary Engineer	L&H AirCo.	Yes	Once	Both On-Site

Appendix J – Energy – On-site Renewable Energy

Clean Renewable Energy Bonds Projects

**California Department of Transportation
Clean Renewable Energy Bonds Projects**

Num	District	Project	City	Project Cost	kW AC Actual	Date Began Gen Power
1	3	Elk Grove Maintenance Station	Elk Grove	\$115,368	15.0	7/20/2010
2	3	Willows SRRA	Glenn County	\$29,143	3.0	8/26/2010
3	3	Sunrise Maintenance Station	Rancho Cordova	\$231,000	30.0	7/19/2010
4	3	District 3 - Maint. Facility 2	Chico	\$155,000	23.0	9/14/2010
5	4	District 4 - Maint. Facility 3	Cupertino	\$169,675	20.0	9/21/2010
6	10	John C. Erreca SRRA	Merced County	\$56,800	9.0	8/3/2010
7	6	Porterville Maintenance Station	Porterville	\$120,362	15.8	7/19/2010
8	5	District 5 - Maint. Facility 5	Santa Maria	\$107,300	15.0	8/20/2010
9	5	District 5 - Maint. Facility 2	Monterey	\$55,600	13.0	8/19/2010
10	4	District 4 - Maint. Facility 19	Walnut Creek	\$142,700	20.0	9/7/2010
11	4	Equipment Building #7	San Leandro	\$239,400	45.0	9/22/2010
12	6	District 6 - Maint. Facility 2	Delano	\$164,025	20.0	10/11/2010
13	6	Lebec Maintenance Station	Lebec	\$133,808	15.8	10/4/2010
14	6	District 6 Office Building	Fresno	\$432,669	89.3	9/22/2010
14		District 6 Office Building - Supplemental Work		\$71,205		
15	6	District 6 - Maint. Facility 3	Fresno	\$163,027	22.0	11/10/2010
16	6	Equipment Building #11	Fresno	\$180,723	35.0	11/17/2010
17	2	Burney Maintenance Station	Burney	\$198,900	30.0	10/26/2010
18	3	Equipment Building #5	Marysville	\$457,631	92.2	11/18/2010
19	6	Equipment Building #12	Bakersfield	\$211,632	42.0	12/8/2010
20	11	District 11 - Maint. Facility 4	San Diego	\$178,835	35.7	12/9/2010
21	10	Westley SRRA	Stanislaus County	\$123,869	14.0	11/30/2010
22	4	District 4 - Maint. Facility 8	Hercules	\$109,563	12.0	12/15/2010
23	4	District 4 - Maint. Facility 6	Gilroy	\$49,479	7.0	12/16/2010
24	9	District 9 - Maint. Facility 1	Bishop	\$184,190	35.0	12/16/2010
25	6	District 6 - Maint. Facility 4	Visalia	\$224,754	30.0	1/17/2011
26	9	District 9 Office Building	Bishop	\$441,058	89.3	1/19/2011
27	7	District 7 - Maint. Facility 10	Tarzana	\$64,398	10.0	1/25/2011
28	3	District 3 - Maint. Facility 1	Auburn	\$111,300	20.0	1/26/2011
29	7	District 7 - Maint. Facility 1	Altadena	\$138,668	20.0	1/25/2011
30	3	Main Lab Bldg (Translab) (New Warehouse) Phase I	Sacramento	\$887,000	165.0	4/11/2011
31	1	Bracut Maintenance Station	Eureka	\$255,721	50.0	3/11/2011
32	1	Equipment Building #1 (2101)	Eureka	\$174,892	30.0	2/16/2011
33	1	District 1 - Maint. Facility 1 (Annex)	Eureka	\$139,989	25.0	2/16/2011
34	7	Newhall Maintenance Station	Valencia	\$164,297	33.0	2/9/2011
35	9	Shoshone Maintenance Station	Shoshone	\$99,733	15.8	2/22/2011
36	8	Equipment Building #15	Barstow	\$192,500	30.0	2/11/2011
37	11	Equipment Building #18	San Diego	\$379,898	65.0	4/14/2011
38	7	District 7 - Maint. Facility 5	Monrovia	\$142,408	20.0	3/17/2011
39	12	District 12 - Maint. Facility 1	Orange	\$207,899	42.8	4/13/2011
40	4	District 4 - Maint. Facility 9	Napa	\$84,024	8.0	6/8/2011
41	7	District 7 - Maint. Facility 2	Camarillo	\$210,465	30.0	3/14/2011
42	1	District 1 Office Building	Eureka	\$372,539	75.0	4/25/2011
43	12	Costa Mesa Maintenance Station	Costa Mesa	\$212,061	42.8	7/14/2011
44	4	District 4 - Maint. Facility 15	San Leandro	\$176,913	30.0	3/27/2012
45	11	San Diego - Coronado Bridge	San Diego	\$202,000	47.6	5/27/2011
46	11	San Onofre SB I-5 Truck Inspection Facility	San Onofre	\$99,000	23.8	5/25/2011
47	7	District 7 - Maint. Facility 3	Commerce	\$206,420	36.5	1/14/2013
48	5	Equipment Building #10	San Luis Obispo	\$272,843	48.0	4/23/2011
49	4	District 4 - Maint. Facility 7	Hayward	\$158,750	30.0	4/27/2011
50	4	District 4 - Maint. Facility 2	Crockett	\$184,800	25.0	5/10/2011
51	4	South San Jose Maintenance Station	San Jose	\$170,738	30.0	5/23/2011
52	4	District 4 Maintenance Facility	Petaluma	\$135,497	20.0	6/24/2011
53	5	District 5 - Maint. Facility 4	Santa Barbara	\$99,285	15.0	2/8/2012
54	1	District 1 - Maint. Facility 3	Ukiah	\$177,489	25.0	9/7/2011
55	4	District 4 - Maint. Facility 1	Benicia	\$185,800	30.0	7/6/2011
56	10	Stockton Maintenance Station	Stockton	\$214,050	30.0	10/18/2011
57	5	District 5 - Maint. Facility 1	Buellton	\$89,600	15.0	10/20/2011
58	5	Santa Cruz - Maint. Facility 17	Santa Cruz	\$102,373	15.0	10/12/2011
59	5	District 5 Office Building	San Luis Obispo	\$365,228	73.5	10/19/2011
60	7	Chilao Maintenance Station	La Canada	\$121,569	12.0	8/4/2011
61	2	Quincy Maintenance Station	Quincy	\$172,351	30.0	10/6/2011
62	11	Calexico NB Truck Inspection Facility	Herber	\$108,675	15.0	7/27/2012
63	8	District 8 - Maint. Facility 1	Riverside	\$171,792	30.0	1/18/2012
64	4	Antioch Bridge Toll Plaza	Antioch	\$78,931	10.0	7/5/2012
		Main Lab Bldg (Translab) (Exist Geotech & Structure Materials)				
65	3	Phase II	Sacramento	\$284,076	44.0	8/11/2011
66	12	TMC #6	Irvine	\$254,395	50.8	3/7/2012
67	12	District 12 Maint. Facility	Orange	\$244,627	43.9	2/15/2012
68	7	District 7 Maint. Facility	Long Beach	\$238,900	45.2	7/1/2012
69	11	TMC #5	San Diego	\$235,292	40.0	3/2/2012
70	3	Division of Equipment Building	Sacramento	\$414,000	100.0	8/2/2012

Total: \$13,750,902 2,375.8
 Telemetry Monitoring Costs: \$354,892
Project Costs: \$14,105,794
 Rebates: (\$3,200,000)
TOTAL PROJECT COSTS: \$10,905,794

Appendix K – Energy – On-site Renewable Energy

Future Solar PPA Project Sites

Future Solar PPA Project Sites

District 2 –

- Redding Maintenance Station
- Red Bluff Maintenance Station

District 4 –

- West Bay Regional Facility – Foster City,
- South Bay Regional Facility – Queens Lane, San Jose
- South San Jose Facility – Monterey Road, San Jose
- North Bay Regional facility – Petaluma,
- Napa Maintenance Facility – Napa
- Fairfield Maintenance Facility – Fairfield
- Rio Vista Maintenance Facility – Rio Vista
- Specialty Region Maintenance – Hesperian, San Leandro

District 8 –

- District 8 HQ Office would be for placing the solar PV system on the roof of the adjacent DOT parking structure. A quick analysis showed that the parking roof should be able to hold approximately 250 kW of solar panels if the roof solar PV coverage ratio was 50% this would generate about 375,000 kWh/year.

District 12 –

- Orange Yard
- Stanton Yard
- Brea Yard
- Costa Mesa Yard
- Batavia Yard
- Marine Way Yard
- Irvine Toll Rd. Yard
- Bolsa Chica Yard
- San Juan Capistrano
- San Juan Capistrano
- Ct San Juan Capistrano

Appendix L – Building Commissioning

EUI Data Analysis

EUI Data Analysis

Note: 1) Energy data comes from upload into Energy Star Portfolio Manager from Energy companies, or InfoAdvantage (for smaller energy companies). 2) 2003 Baseline energy reported to the Governor's Office can not be determined for each individual building. Only 2/3 of the buildings in this document were reported to the Governor's Office for the baseline data. 3) Baseline data in this document is from the first full year of data entered into ESPM. 4) Data from buildings that are co-located are entered only once with one building.

District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) <small>see note 3</small>	2014 Change from Baseline Energy	EUI thresholds				
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100	
01 - Eureka													
Equipment Shop													
01 UKIAH EQUIPMENT SUB-SHOP	1,321,087	1,296,525	1,229,243	2011	28,560	43.04	1,837,966	-33.12%	-	yes	yes	-	-
EQUIPMENT SHOP 01	1,162,758	1,304,312	1,185,660	2003	30,982	38.27	1,488,954	-20.37%	-	yes	yes	-	-
Lab - District													
01 MATERIALS LAB				-	7,190	0.00			-	-	yes	-	-
Lab - Field													
LOWER LAKE CONSTRUCTION LABORATORY	146,119	133,583	80,148	2003	1,000	80.15	56,608	+41.58%	-	yes	-	-	-
Maintenance Station													
BOONVILLE MAINTENANCE STATION	78,749	72,529	69,908	2003	6,671	10.48	70,424	-0.73%	-	-	yes	-	-
BRACUT MAINTENANCE STATION	1,434,086	1,539,330	1,378,761	2003	27,941	49.35	703,307	+96.04%	-	yes	yes	-	-
BRIDGEVILLE MAINTENANCE STATION	123,753	112,067	106,871	2003	2,804	38.11	88,831	+20.31%	-	yes	-	-	-
CLEARLAKE OAKS MAINTENANCE STATION	4,886	127,530	289,580	2003	2,800	103.42	36,304	+697.66%	-	yes	-	yes	-
CRESCENT CITY MAINTENANCE STATION		142,349	137,845	2004	1,230	112.07	177,697	-22.43%	-	yes	-	yes	-
DINSMORE S/S				-	-				-	-	-	-	-
DISTRICT 01 ANNEX	144,916	138,196	217,930	2011	6,480	33.63	141,306	+54.22%	-	yes	yes	-	-
FORT BRAGG MAINTENANCE STATION	89,548	76,013		2003	3,695	0.00	44,663	-100.00%	-	-	-	-	-
FORTUNA MAINTENANCE STATION	312,177	305,063	267,285	2003	3,672	72.79	251,855	+6.13%	-	yes	-	-	-
GARBERVILLE MAINTENANCE STATION	229,256	228,553	205,119	2003	6,307	32.52	238,567	-14.02%	-	yes	yes	-	-
IDLEWILD MAINTENANCE STATION		188,069	196,531	2005	8,776	22.39	98,402	+99.72%	-	yes	yes	-	-
LAKEPORT MAINTENANCE STATION	163,179	143,686	115,530	2003	5,421	21.31	170,075	-32.07%	-	yes	yes	-	-
LEGGETT MAINTENANCE STATION	106,069	104,138	99,600	2003	3,627	27.46	105,963	-6.01%	-	yes	-	-	-
MANCHESTER MAINTENANCE STATION	58,550	67,049	69,352	2003	4,019	17.26	46,949	+47.72%	-	-	-	-	-
ORLEANS MAINTENANCE STATION	93,352	95,263	86,972	2003	4,093	21.25	55,411	+56.96%	-	yes	-	-	-
PINE CREEK SAND STORAGE				-	-				-	-	-	-	-
RATTLESNAKE CK S/S	4,309	6,401	9,356	2011	-		9,281	+0.81%	-	-	-	-	-
REDWOOD BYPAS S/S				-	-				-	-	-	-	-
UKIAH MAINTENANCE STATION	754,340	740,569	882,504	2003	37,328	23.64	952,940	-7.39%	-	yes	yes	-	-
WILLITS MAINTENANCE STATION	328,004	366,609	291,113	2003	4,206	69.21	391,353	-25.61%	-	yes	-	-	-
WILLOW CREEK MAINTENANCE STATION	57,281	60,512	60,563	2003	12,604	4.81	49,024	+23.54%	-	-	yes	-	-
Office													
01 DISTRICT OFFICE	10,023,776	6,670,590	4,586,956	2003	80,800	56.77	11,328,040	-59.51%	yes	yes	yes	-	-

EUI Data Analysis

Note: 1) Energy data comes from upload into Energy Star Portfolio Manager from Energy companies, or InfoAdvantage (for smaller energy companies). 2) 2003 Baseline energy reported to the Governor's Office can not be determined for each individual building. Only 2/3 of the buildings in this document were reported to the Governor's Office for the baseline data. 3) Baseline data in this document is from the first full year of data entered into ESPM. 4) Data from buildings that are co-located are entered only once with one building.

District-Facility Type-Facility Name	2012 2013 2014			Baseline year	Floor Area (sq/ft)	Current EUI (kBTU/sq ft)	Baseline Energy (kBTU) <small>see note 3</small>	2014 Change from Baseline Energy	EUI thresholds			
	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
04 - Oakland									-	-	-	-
Equipment Shop									-	-	-	-
04 FAIRFIELD EQUIPMENT SUB-SHOP	514,800	507,700	371,000	2011	5,394	68.78	492,800	-24.72%	-	yes	yes	-
04 OAKLAND EQUIPMENT SUB-SHOP	-	-	-	-	17,360	0.00	-	-	-	-	yes	-
04 SAN FRANCISCO EQUIPMENT SUB-SHOP	-	-	-	-	3,568	0.00	-	-	-	-	-	-
04 SAN JOSE EQUIPMENT SUB-SHOP	-	-	-	-	30,745	0.00	-	-	-	-	yes	-
EQUIPMENT SHOP 04	2,317,700	2,547,720	2,435,036	2003	48,040	50.69	2,848,514	-14.52%	-	yes	yes	-
Lab - District									-	-	-	-
04 MATERIALS LAB	782,003	706,803	596,772	2011	7,600	78.52	680,861	-12.35%	-	yes	yes	-
Lab - Field									-	-	-	-
ORINDA CONSTRUCTION LABORATORY	56,817	42,394	26,051	2003	1,200	21.71	57,926	-55.03%	-	yes	-	-
Maintenance Station									-	-	-	-
ALCOSTA LANDSCAPE STATION	87,661	87,661	76,432	2003	1,424	53.67	80,356	-4.88%	-	yes	-	-
ANTIOCH BRIDGE TOLL PLAZA	1,116,860	1,363,954	1,150,928	2011	6,676	172.40	1,123,606	+2.43%	-	yes	yes	yes
ANTIOCH SUB YARD SATELLITE	-	-	-	-	1,800	0.00	-	-	-	-	-	-
BENICIA MAINTENANCE STATION	117,357	111,205	93,994	2003	-	-	107,436	-12.51%	-	-	-	-
BODEGA BAY MAINTENANCE STATION	6,616	-	-	2003	2,037	0.00	22,888	-100.00%	-	-	-	-
CALDECOTT TUNNEL	9,637,627	5,433,842	-	2011	1,616	0.00	9,261,932	-100.00%	-	-	-	-
CALISTOGA MAINTENANCE STATION	71,096	61,873	45,134	2003	3,387	13.33	98,088	-53.99%	-	-	-	-
CARQUINEZ TOLL PLAZA MAINT	4,043,705	4,024,067	3,182,234	2011	7,150	445.07	4,347,161	-26.80%	-	yes	yes	yes
CASTRO VALLEY MAINT	-	-	-	-	1,386	0.00	-	-	-	-	-	-
CUPERTINO MAINTENANCE STATION	419,693	370,301	286,190	2003	8,862	32.29	564,901	-49.34%	-	yes	yes	-
DELTA REGION MAINTENANCE STATION	585,849	559,483	425,013	2003	2,495	170.35	371,246	+14.48%	-	yes	-	yes
DIXON MAINTENANCE STATION	4,094	28,251	91,605	2003	2,966	30.89	45,311	+102.17%	-	yes	-	-
EAST BAY REGION MAINTENANCE STATION	959,285	988,397	916,972	2003	17,198	53.32	1,217,207	-24.67%	-	yes	yes	-
FAIRFIELD MAINTENANCE STATION	470,689	434,022	301,383	2003	11,282	26.71	394,134	-23.53%	-	yes	yes	-
FORT ROSS MAINTENANCE STATION	194,893	195,712	235,725	2003	7,891	29.87	127,199	+85.32%	-	yes	yes	-
FREMONT MAINTENANCE STATION	212,378	173,134	172,484	2003	2,832	60.91	154,739	+11.47%	-	yes	-	-
GEYSERVILLE MAINTENANCE STATION	67,791	45,014	47,144	2003	3,413	13.81	7,600	+520.32%	-	-	-	-
GILROY MAINTENANCE STATION	0	0	47,857	2014	5,076	9.43	47,857	0.00%	-	-	yes	-
HALF MOON BAY MAINT	117,998	100,628	106,005	2011	2,696	39.32	119,243	-11.10%	-	yes	-	-
HAYWARD MAINTENANCE STATION	69,052	18,307	-	2003	-	-	289,852	-100.00%	-	-	-	-
HERCULES MAINTENANCE STATION	70,471	90,166	108,123	2004	6,560	16.48	10	+1056200.00%	-	-	yes	-
KEMPTON MAINT	2,590	2,829	2,484	2011	-	-	2,583	-3.83%	-	-	-	-
LIVERMORE MAINTENANCE STATION	248,224	263,327	240,238	2003	3,636	66.07	183,779	+30.72%	-	yes	-	-
LOS GATOS SATELLITE	-	-	-	-	-	-	-	-	-	-	-	-
MANZANITA MAINTENANCE STATION	150,917	163,089	170,910	2003	5,398	31.66	170,182	+0.43%	-	yes	yes	-
MIDDLEFIELD ROAD MAINTENANCE STATION	39,241	35,690	49,194	2003	1,200	41.00	57,124	-13.88%	-	yes	-	-
MILLBRAE MAINT	60,229	51,624	46,379	2011	1,320	35.14	58,321	-20.48%	-	yes	-	-
MILPITAS LANDSCAPE MAINTENANCE	73,455	75,560	63,719	2003	1,260	50.57	82,584	-22.84%	-	yes	-	-
NAPA MAINTENANCE STATION	278,602	296,628	280,663	2003	17,026	16.48	469,529	-40.22%	-	-	yes	-
NORTH BAY REGION	449,300	588,981	421,273	2003	13,926	30.25	562,431	-25.10%	-	yes	yes	-
POINT REYES MAINTENANCE STATION	38	7	0	2003	2,908	0.00	20	-100.00%	-	-	-	-
REDWOOD CITY MAINT	132,784	111,470	66,613	2011	7,220	9.23	182,519	-63.50%	-	-	yes	-
RICHMOND CONSTRUCTION LABORATORY	1,370,019	1,442,384	1,119,228	2003	12,550	89.18	1,255,977	-10.89%	-	yes	yes	-
RICHMOND-SAN RAFAEL TOLL PLAZA	1,742,167	1,170,589	1,396,600	2011	8,274	168.79	1,568,565	-10.96%	-	yes	yes	yes
RIO VISTA MAINTENANCE STATION	209,315	238,811	218,540	2003	5,592	39.08	66,900	+226.67%	-	yes	yes	-
SAN FRANCISCO MAINT	570,611	569,957	534,794	2011	11,176	47.85	562,434	-4.91%	-	yes	yes	-
SAN MATEO PAINT	-	-	-	-	8,719	0.00	-	-	-	-	yes	-
SAN RAFAEL LANDS	-	-	-	-	120	0.00	-	-	-	-	-	-
SAN RAFAEL PAINT SHOP	273	136	682	2011	2,424	0.28	682	0.00%	-	-	-	-
SANTA CRUZ MAINTENANCE STATION	310,161	282,073	339,090	2003	15,422	21.99	397,908	-14.78%	-	yes	yes	-
SANTA ROSA LANDSCAPE STATION	103,957	96,111	74,459	2003	3,416	21.80	75,285	-1.10%	-	yes	-	-
SANTEE MAINTENANCE STATION	635,035	782,999	646,026	2006	13,680	47.22	549,454	+17.58%	-	yes	yes	-
SHELLVILLE MAINTENANCE STATION	174	0	0	2003	2,142	0.00	1,911	-100.00%	-	-	-	-
SEBASTOPOL MAINTENANCE STATION	75,794	60,945	54,452	2003	2,400	22.69	100,313	-45.72%	-	yes	-	-

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
SEIAD VALLEY MAINTENANCE STATION		3,521	3,258	2007	7,861	0.41	942	+246.01%	-	-	yes	-
SESPE GORGE S/S		-	-	-	-	-	-	-	-	-	-	-
SKYLONDA STORAGE	8,912	7,616	5,220	2003	-	-	10,216	-48.90%	-	-	-	-
SOUTH BAY REGION	7,305	89	147	2003	25,756	0.01	56,967	-99.74%	-	-	yes	-
SOUTH OAKLAND MAINTENANCE STATION				2003	32,908	0.00	537,458	-100.00%	-	-	yes	-
SOUTH PETALUMA MAINTENANCE STATION	100,023	84,689	77,340	2003	8,103	9.54	70,656	+9.46%	-	-	yes	-
SOUTH SAN FRANCISCO MAINTENANCE STATION				2003	-	-	80,950	-100.00%	-	-	-	-
SOUTH SAN JOSE MAINT	486,375	492,714	583,527	2011	26,229	22.25	569,998	+2.37%	-	yes	yes	-
SPECIALTY REGION HESPERIAN	1,529,047	1,212,807	1,360,933	2011	29,796	45.68	1,550,157	-12.21%	-	yes	yes	-
SPECIALTY REGION MAINT	1,290,698	849,226	754,407	2011	17,596	42.87	1,299,343	-41.94%	-	yes	yes	-
STERLING SUB STATION				-	-	-	-	-	-	-	-	-
TELEGRAPH MAINT	112,407	93,521	85,182	2011	1,458	58.42	101,694	-16.24%	-	yes	-	-
TOLL BRIDGE REGION MAINT	6,107	3,419	70,799	2012	76,970	0.92	6,107	+1059.22%	yes	-	yes	-
TRI-BRIDGE YARD	478,128	457,509	549,106	2011	31,671	17.34	635,813	-13.64%	-	-	yes	-
VALLEJO MAINTENANCE STATION	101,511	91,685	89,615	2003	1,500	59.74	223,768	-59.95%	-	yes	-	-
WALNUT CREEK WEST MAINTENANCE STATION	124,015	141,196	114,015	2003	5,951	19.16	140,662	-18.94%	-	-	yes	-
WEST BAY PAINT	507,011	570,237	372,856	2011	16,475	22.63	529,417	-29.57%	-	yes	yes	-
WEST BAY REGION MAINTENANCE STATION	428,902	470,090	503,724	2003	14,117	35.68	496,946	+1.36%	-	yes	yes	-
WESTBOROUGH MAINT	13,160	9,745	8,854	2011	912	9.71	14,986	-40.92%	-	-	-	-
WOODSIDE MAINTENANCE STATION	181,836	833,513	992,219	2003	8,674	114.39	208,370	+376.18%	-	yes	yes	yes
YERBA BUENA ISLAND				-	912	0.00	-	-	-	-	-	-
Office												
04 DISTRICT OFFICE	32,014,406	31,534,069	30,905,754	2003	525,000	58.87	39,330,962	-21.42%	yes	yes	yes	-
Other - Toll Plaza												
ANTIOCH MAINTENANCE STATION	264,019	256,575	230,441	2003	2,600	88.63	338,762	-31.98%	-	-	yes	-
Other - TBTB												
TRANS BAY TERMINAL BUILDING	8,046,301	8,152,916		2003	-	-	19,004,948	-100.00%	-	-	-	-

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100	
05 - San Luis Obispo													
Equipment Shop													
EQUIPMENT SHOP 05 (2501)	707,078	838,638	845,609	2003	25,433	33.25	1,131,381	-25.26%	-	yes	yes	-	-
Lab - Field													
CUESTA GRADE CONSTRUCTION LABORATORY	57,188	28,205	27,867	2003	400	69.67	90,790	-69.31%	-	yes	-	-	-
Maintenance Station													
BIG SUR MAINT		0	0	-	13,225	0.00			-	-	yes	-	-
BUELLTON MAINTENANCE STATION	206,704	115,977	212,529	2003	5,109	41.60	118,561	+79.26%	-	yes	yes	-	-
CAMBRIA MAINTENANCE STATION	242,385	258,662	206,421	2003	8,538	24.18	292,794	-29.50%	-	yes	yes	-	-
CUYAMA MAINTENANCE STATION	98,197	89,005	58,939	2003	7,100	8.30	55,684	+5.85%	-	-	yes	-	-
EMELINE LANDSCAPE SATELLITE				-	-				-	-	-	-	-
HOLLISTER MAINTENANCE STATION	80,008	60,699	49,198	2003	3,203	15.36	71,587	-31.28%	-	-	-	-	-
KING CITY MAINTENANCE STATION	54,865	71,788	56,581	2003	4,120	13.73	79,977	-29.25%	-	-	-	-	-
MONTEREY MAINTENANCE STATION	26,951	26,266	84,815	2003	7,610	11.15	68,520	+23.78%	-	-	yes	-	-
SALINAS MAINTENANCE STATION	359,839	315,126	296,015	2003	17,232	17.18	400,720	-26.13%	-	-	yes	-	-
SAN LUIS OBISPO MAINT				-	15,509	0.00			-	-	yes	-	-
SANTA BARBARA MAINTENANCE STATION	451,495	721,534	349,934	2003	25,395	13.78	357,470	-2.11%	-	-	yes	-	-
SANTA MARIA MAINTENANCE STATION	201,730	69,001	144,549	2003	16,032	9.02	253,224	-42.92%	-	-	yes	-	-
SHAVER LAKE MAINTENANCE STATION	219,869	187,049	161,278	2003	8,182	19.71	211,680	-23.81%	-	-	yes	-	-
TEMPLETON MAINTENANCE STATION	532,088	523,880	423,389	2003	7,046	60.09	408,316	+3.69%	-	yes	yes	-	-
WILLOW SPRINGS MAINT				-	14,053	0.00			-	-	yes	-	-
Office													
05 DISTRICT OFFICE	2,642,494	3,071,634	3,198,785	2003	41,700	76.71	3,953,902	-19.10%	-	yes	yes	-	-

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
06 - Fresno									-	-	-	-
Equipment Shop									-	-	-	-
BAKERSFIELD EQ SUB-SHOP 2 (36-06-02)			236,373	2014	39,740	5.95	236,373	0.00%	-	-	yes	-
EQUIPMENT SHOP 06 (2601)			236,721	2014	33,352	7.10	236,721	0.00%	-	-	yes	-
Lab - District									-	-	-	-
06 MATERIALS LAB				-	5,200	0.00			-	-	yes	-
Maintenance Station									-	-	-	-
BAKERSFIELD MAINTENANCE STATION	1,398,239	1,465,847	1,130,878	2011	12,000	94.24	1,081,812	+4.54%	-	yes	yes	-
BIG CEDAR SPRINGS MAINT	60,740	44,359	18,725	2011	3,680	5.09	64,504	-70.97%	-	-	-	-
BODFISH MAINTENANCE STATION	137,964	137,009	124,538	2003	7,492	16.62	176,264	-29.35%	-	-	yes	-
COALINGA YARD MAINTENANCE STATION	193,058	198,507	197,872	2003	2,152	91.95	131,294	+50.71%	-	yes	-	-
COARSEGOLD MAINTENANCE STATION	242,566	188,554	155,147	2003	3,888	39.90	238,567	-34.97%	-	yes	-	-
DELANO MAINTENANCE STATION	133,294	137,780	236,817	2003	8,696	27.23	336,350	-29.59%	-	yes	yes	-
FRESNO MAINTENANCE STATION	733,028	623,539	840,993	2011	53,290	15.78	616,056	+36.51%	yes	-	yes	-
GLENNVILLE MAINTENANCE STATION	28,555	21,820	14,378	2003	8,216	1.75	36,563	-60.68%	-	-	yes	-
HAPPY GAP S/S	14,706	14,173	16,176	2011	-	-	27,381	-40.92%	-	-	-	-
HUNTINGTON LAKE SATELLITE MAINT	12,386	68,318	72,201	2013	6,642	10.87	68,318	+5.68%	-	-	yes	-
KETTLEMAN CITY MAINTENANCE STATION	188,335	251,480	216,989	2003	4,700	46.17	281,244	-22.85%	-	yes	-	-
LEMON COVE MAINTENANCE STATION	8,830	7,602	9,417	2005	2,901	3.25	5,661	+66.37%	-	-	-	-
LEMOORE YARD MAINTENANCE STATION	315,751	301,929	286,131	2003	6,745	42.42	990,247	-71.11%	-	yes	yes	-
LOST HILLS MAINTENANCE STATION (SATELLITE)	44,953	17,326	8,772	2004	1,092	8.03	78	+11078.26%	-	-	-	-
MADERA MAINTENANCE STATION	442,074	585,566	500,417	2003	7,552	66.26	453,287	+10.40%	-	yes	yes	-
MCKITTRICK MAINTENANCE STATION	4,163	4,398	5,701	2003	2,088	2.73	4,985	+14.37%	-	-	-	-
MENDOTA MAINTENANCE STATION	159,698	179,136	147,969	2003	2,676	55.29	161,660	-8.47%	-	yes	-	-
PIERPOINT SPRINGS/CAMP NELSON MAINTENANCE	12,314	14,887	12,727	2003	2,224	5.72	19,691	-35.37%	-	-	-	-
PINEHURST MAINTENANCE STATION	1,204	1,204	1,204	2003	6,128	0.20	1,201	+0.28%	-	-	yes	-
PORTERVILLE MAINTENANCE STATION	113,193	122,242	203,447	2003	4,720	43.10	162,411	+25.27%	-	yes	-	-
SHERWIN GRAD SAND/SALT STORAGE				-	-	-			-	-	-	-
TAFT MAINTENANCE STATION	248,735	263,205	261,114	2003	13,910	18.77	259,994	+0.43%	-	-	yes	-
TULARE MAINT	11,178	367,813	234,339	2013	5,598	41.86	367,813	-36.29%	-	yes	yes	-
VISALIA MAINT	20,957	396,153	598,672	2013	12,600	47.51	396,153	+51.12%	-	yes	yes	-
WASCO MAINTENANCE STATION	156,375	155,179	133,491	2003	2,624	50.87	100,042	+33.43%	-	yes	-	-
WEST AVENUE MAINTENANCE STATION	57,847	61,392	65,944	2004	27,548	2.39	4,640	+1321.10%	-	-	yes	-
Office									-	-	-	-
06 DISTRICT OFFICE	12,630,547	7,367,106	3,912,026	2003	78,000	50.15	13,411,331	-70.83%	yes	yes	yes	-

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TEJON MTN S/S				-	-				-	-	-	-
TERMINAL ISLAND MAINT		207,349	123,111	2013	4,363	28.22	207,349	-40.63%	-	yes	-	-
TORRANCE MAINTENANCE STATION	98,797	20,803	45,930	2003	6,145	7.47	189,271	-75.73%	-	-	yes	-
VALENCIA & NORTH REGION MAINT	20,851	277,396	261,503	2013	20,832	12.55	277,396	-5.73%	-	-	yes	-
VENTURA MAINTENANCE STATION	164,264	176,387	171,583	2003	5,416	31.68	145,249	+18.13%	-	yes	yes	-
VENTURA REGION OFFICE	127,418	117,786	104,774	2003	19,707	5.32	101,377	+3.35%	-	-	yes	-
VICTORVILLE MAINTENANCE STATION	176,667	1,058,922	667,715	2003	7,004	95.33	227,935	+192.94%	-	yes	yes	-
VINCENT S/S	4,265	25,856	17,913	2013	-		25,856	-30.72%	-	-	-	-
VINCENT THOMAS BRIDGE MAINTENANCE STATION (PAINT)	240,250	376,200	320,500	2006	7,460	42.96	230,500	+39.05%	-	yes	yes	-
WARD ROAD S/S	2,559	20,080	10,229	2013	-		20,080	-49.06%	-	-	-	-
WEST REGION MAINTENANCE STATION	474,144	348,464	556,689	2003	15,680	35.50	425,507	+30.83%	-	yes	yes	-
WESTDALE MAINT		961,769	420,587	2013	10,120	41.56	961,769	-56.27%	-	yes	yes	-
WHITTAKER SUMMIT S/S				-	-				-	-	-	-
WHITTIER AND EAST REGION MAINTENANCE STATION	531,539	628,578	449,057	2003	15,388	29.18	369,260	+21.61%	-	yes	yes	-
WILLOW ST. ELECTRICAL CREW	226,137	463,695	177,082	2003	2,416	73.30	182,385	-2.91%	-	yes	-	-
Office									-	-	-	-
07 DISTRICT OFFICE	40,294,779	34,787,085	36,968,025	2005	716,200	51.62	44,513,579	-16.95%	yes	yes	yes	-
Other - RE Office									-	-	-	-
WESTWOOD CONSTRUCTION OFFICE	202,417	218,825	158,266	2003	1,431	110.60	12,078	+1210.31%	-	yes	-	yes
TMC									-	-	-	-
LOS ANGELES REGIONAL TMC	10,491,100	29,996,939	6,125,000	2008	82,300	74.42	10,187,400	-39.88%	yes	yes	yes	-

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100		
08 - San Bernardino														
Equipment Shop														
08 BARSTOW EQUIPMENT SUB-SHOP	95,632	494,801	500,875	2013	8,400	59.63	494,801	+1.23%	-	yes	yes	-	-	
EQUIPMENT SHOP 08 (2801)	3,147,722	3,028,548	2,100,455	2003	34,503	60.88	2,203,039	-4.66%	-	yes	yes	-	-	
Lab - District														
08 OLD MATERIALS LAB		59,778		2013	5,870	0.00	59,778	-100.00%	-	-	yes	-	-	
08 SOUTHERN REGION LAB	188,523	4,442,326	4,085,598	2013	67,000	60.98	4,442,326	-8.03%	yes	yes	yes	-	-	
Maintenance Station														
BANNING MAINTENANCE STATION	201	7	0	2003	8,643	0.00	474	-100.00%	-	-	yes	-	-	
BARSTOW MAINTENANCE STATION	363,231	2,149,412	1,285,560	2003	13,656	94.14	509,207	+152.46%	-	yes	yes	-	-	
BEECHERS CORNER MAINTENANCE STATION	586,781	587,813	545,051	2003	6,760	80.63	699,689	-22.10%	-	yes	yes	-	-	
BLTYHE MAINTENANCE STATION	261,485	164,626	183,460	2003	5,968	30.74	183,329	+0.07%	-	yes	yes	-	-	
BURNT MILL MAINTENANCE STATION	865,413	914,884	584,563	2003	9,743	60.00	518,806	+12.67%	-	yes	yes	-	-	
CAJON MAINTENANCE STATION	725,818	628,487	716,749	2003	13,139	54.55	680,216	+5.37%	-	yes	yes	-	-	
CAJON PASS S/S	3,596	22,792	12,427	2013	-	-	22,792	-45.48%	-	-	-	-	-	
CAMP ANGELUS MAINTENANCE STATION	382,547	463,578	384,737	2003	10,082	38.16	171,146	+124.80%	-	yes	yes	-	-	
CORONA MAINTENANCE STATION	334,734	255,705	201,464	2003	4,356	46.25	202,196	-0.36%	-	yes	-	-	-	
DAWSON SUMMIT S/S				-	-	-			-	-	-	-	-	
DESERT CENTER MAINTENANCE STATION	160,173	202,689	243,056	2003	12,594	19.30	200,993	+20.93%	-	-	yes	-	-	
DRY CREEK MAINT		3,752,930	803,102	2013	8,484	94.66	3,752,930	-78.60%	-	yes	yes	-	-	
ELSINORE MAINTENANCE STATION	366,191	349,911	266,002	2003	3,736	71.20	355,888	-25.26%	-	yes	-	-	-	
ESSEX MAINTENANCE STATION	175,244	180,174	184,760	2003	10,972	16.84	220,825	-16.33%	-	-	yes	-	-	
FAWNSKIN MAINTENANCE STATION		0	0	2003	14,807	0.00	106,352	-100.00%	-	-	yes	-	-	
HEMET MAINTENANCE STATION	322,529	328,248	270,056	2003	5,541	48.74	341,981	-21.03%	-	yes	yes	-	-	
INDIO MAINTENANCE STATION	57,700	130,543	427,558	2003	10,269	41.64	237,025	+80.39%	-	yes	yes	-	-	
KEEN CAMP		143,031	130,202	2013	11,586	11.24	143,031	-8.97%	-	-	yes	-	-	
LAKEVIEW POINT SATELLITE				-	-	-			-	-	-	-	-	
MAGANA ORTEGA	42,172	712,236	766,896	2013	36,372	21.08	712,236	+7.67%	-	yes	yes	-	-	
MOUNTAIN PASS	16,889	198,906	131,836	2013	14,543	9.07	198,906	-33.72%	-	-	yes	-	-	
NEEDLES MAINTENANCE STATION		400,399	284,451	2003	8,191	34.73	165,414	+71.96%	-	yes	yes	-	-	
ONTARIO MAINTENANCE STATION	192,737	60,921	130,146	2003	8,236	15.80	110,495	+17.78%	-	-	yes	-	-	
PARADISE VALLEY MAINTENANCE STATION	244,699	260,485	261,028	2003	3,822	68.30	540,876	-51.74%	-	yes	-	-	-	
RIVERSIDE MAINTENANCE STATION		386,440	415,288	2003	14,952	27.77	409,867	+1.32%	-	yes	yes	-	-	
SAN BERNARDINO MAINTENANCE STATION	879,794	965,205	761,417	2003	24,462	31.13	866,346	-12.11%	-	yes	yes	-	-	
VIDAL MAINT		133,921	146,689	2013	3,877	37.84	133,921	+9.53%	-	yes	-	-	-	
Office														
08 DISTRICT OFFICE (SAN BERNARDINO GOV'T CENTER OFFICE BLDG)	36,672,398	35,439,569	35,608,743	2003	235,714	151.07	26,757,047	+33.08%	yes	yes	yes	yes	yes	
Other														
08 IND ASSURANCE BLDG				-	13,450	0.00			-	-	-	yes	-	
TMC														
08 INLAND EMPIRE TMC (SAN BERNARDINO)		7,769,606	9,954,873	2013	43,000	231.51	7,769,606	+28.13%	-	yes	yes	yes	yes	

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
09 - Bishop									-	-	-	-
Equipment Shop									-	-	-	-
09 BISHOP EQUIPMENT SHOP				-	23,829	0.00			-	-	yes	-
Maintenance Station									-	-	-	-
BISHOP MAINTENANCE STATION	398,429	479,724	779,055	2003	43,810	17.78	523,162	+48.91%	-	-	yes	-
BRIDGEPORT MAINTENANCE STATION	392,571	343,936	281,005	2003	11,171	25.15	253,716	+10.76%	yes	yes	yes	-
CONWAY SUMMIT SAND STORAGE				2003	-		39,545	-100.00%	-	-	-	-
CRESTVIEW MAINTENANCE STATION	253,945	224,523	108,809	2003	7,543	14.43	313,085	-65.25%	-	-	yes	-
DEATH VALLEY MAINTENANCE STATION	103,326	90,462	111,419	2003	10,906	10.22	92,574	+20.36%	-	-	yes	-
INDEPENDENCE MAINTENANCE STATION (OPEN)		134,218	344,748	2013	5,224	65.99	134,218	+156.86%	yes	yes	-	-
INYOKERN MAINTENANCE STATION	319,005	321,288	294,299	2003	3,040	96.81	270,230	+8.91%	yes	yes	-	-
LEE VINING MAINTENANCE STATION	345,021	53,190	50,730	2003	9,590	5.29	404,800	-87.47%	-	-	yes	-
LONE PINE S/S				-	-				-	-	-	-
MCGEE MAINTENANCE STATION	594,616	578,344	610,646	2003	3,324	183.71	460,893	+32.49%	yes	yes	-	yes
MINARET SATELLITE	178,690	160,115	162,735	2003	6,130	26.55	131,703	+23.56%	yes	yes	yes	-
MOJAVE MAINTENANCE STATION	239,195	221,797	203,628	2003	8,010	25.42	148,913	+36.74%	yes	yes	yes	-
SHINGLETOWN SAND HOUSE	32,967	39,818	19,452	2003	-		47,004	-58.62%	-	-	-	-
SHOSHONE MAINTENANCE STATION	149,681	144,362	257,166	2003	5,234	49.13	191,208	+34.50%	yes	yes	yes	-
SONORA JUNCTION MAINTENANCE STATION	485,862	476,073	477,591	2003	4,500	106.13	256,309	+86.33%	yes	yes	-	yes
TEHACHAPI MAINTENANCE STATION	24,966	24,972	24,686	2003	4,688	5.27	17,367	+42.14%	-	-	-	-
TEHACHAPI SAND STORAGE	38,481	20,861	11,004	2004	-		949	+1060.07%	-	-	-	-
Office									-	-	-	-
09 DISTRICT OFFICE	2,714,287	2,925,759	3,795,908	2003	25,236	150.42	3,433,543	+10.55%	yes	yes	yes	yes

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
10 - Stockton									-	-	-	-
Equipment Shop									-	-	-	-
10 STOCKTON EQUIPMENT SHOP				-	24,396	0.00			-	-	yes	-
Lab - District									-	-	-	-
10 LAB				-	4,500	0.00			-	-	-	-
Maintenance Station									-	-	-	-
ALTAVILLE COMMAND TRAILER	2,252	1,747	2,235	2003	200	11.17	1,324	+68.81%	-	-	-	-
ALTAVILLE MAINTENANCE STATION	202,799	186,807	198,159	2003	16,217	12.22	182,610	+8.51%	-	-	yes	-
ALTAVILLE OFFICE BUILDING	60,249	62,508	62,399	2003	2,000	31.20	59,464	+4.93%	yes	-	-	-
CABBAGE PATCH MAINTENANCE STATION	460,620	441,922	482,593	2003	17,779	27.14	342,019	+41.10%	yes	yes	-	-
CAMP CONNELL MAINTENANCE STATION	499,244	479,359	518,467	2003	16,949	30.59	405,892	+27.74%	yes	yes	yes	-
CAPLES LAKE MAINT				-	24,043	0.00			-	-	yes	-
COULTERVILLE MAINTENANCE STATION	97,682	88,166	103,776	2003	4,580	22.66	37,392	+177.53%	yes	-	-	-
GROVELAND MAINTENANCE STATION	202,482	202,328	191,127	2003	9,337	20.47	181,976	+5.03%	yes	yes	-	-
IONE MAINTENANCE STATION	228,234	505,349	426,879	2003	5,817	73.38	145,420	+193.55%	yes	yes	-	-
LODI MAINTENANCE STATION	322,800	362,818	371,663	2003	4,391	84.64	246,659	+50.68%	yes	-	-	-
LONG BARN MAINTENANCE STATION	250,031	228,468	247,066	2003	8,849	27.92	267,364	-7.59%	yes	yes	-	-
LOS BANOS MAINTENANCE STATION	343,945	257,029	243,386	2003	3,480	69.94	197,342	+23.33%	yes	-	-	-
MERCED MAINTENANCE STATION	345,567	333,700	298,574	2003	18,500	16.14	356,759	-16.31%	-	-	yes	-
MIDDPINES MAINTENANCE STATION	263,406	263,679	256,176	2003	11,148	22.98	180,154	+42.20%	yes	yes	-	-
MILT'S PLACE S/S				-	-	-			-	-	-	-
MODESTO MAINTENANCE STATION	380,500	440,921	310,777	2003	10,990	28.28	553,494	-43.85%	yes	yes	yes	-
MUD SPRINGS S/S				-	-	-			-	-	-	-
PATTERSON MAINTENANCE STATION	376,700	746,731	329,200	2003	4,990	65.97	73,800	+346.07%	yes	-	-	-
PEDDLER HILL MAINT				-	18,972	0.00			-	-	yes	-
PICKETS S/S				-	-	-			-	-	-	-
PINE GROVE MAINTENANCE STATION	165,339	155,860	141,451	2003	8,705	16.25	109,317	+29.40%	-	-	yes	-
PINECREST SAND STORAGE	34,318	35,918	36,556	2003	2,100	17.41	20,452	+78.75%	-	-	-	-
SONORA MAINTENANCE STATION	181,273	182,542	137,350	2003	4,721	29.09	141,939	-3.23%	yes	-	-	-
SOULSBYVILLE S/S	3,576	3,521	2,006	2011	-	-	3,088	-35.03%	-	-	-	-
STOCKTON LANDSCAPE	84,681	85,685	65,723	2003	1,200	54.77	97,447	-32.56%	yes	-	-	-
STOCKTON MAINTENANCE STATION	2,285,839	2,294,384	2,283,140	2003	36,563	62.44	2,141,696	+6.60%	yes	yes	-	-
STOCKTON MAINTENANCE STATION 1690	326,002	319,068	287,663	2003	1,200	239.72	290,894	-1.11%	yes	-	-	yes
TIP TOP SAND STORAGE	13,228	13,464	14,423	2003	-	-	9,649	+49.47%	-	-	-	-
TRACY MAINTENANCE STATION	140,438	144,300	131,969	2003	4,684	28.17	110,182	+19.77%	yes	-	-	-
WEST POINT MAINTENANCE STATION	91,489	82,888	75,197	2003	3,074	24.46	106,318	-29.27%	yes	-	-	-
WOODFORDS MAINTENANCE STATION		278,010	414,080	2003	11,252	36.80	331,919	+24.75%	yes	yes	-	-
Office									-	-	-	-
10 DISTRICT OFFICE	3,585,572	3,154,560	3,038,099	2003	64,574	47.05	7,572,244	-59.88%	yes	yes	yes	-

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	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
11 - San Diego									-	-	-	-
Equipment Shop									-	-	-	-
11 EL CENTRO SUB-SHOP		137,162	220,872	2013	4,202	52.56	137,162	+61.03%	-	yes	-	-
11 SAN DIEGO EQUIPMENT SHOP		820,323	708,672	2013	31,800	22.29	820,323	-13.61%	-	yes	yes	-
Lab - District									-	-	-	-
11 KEARNEY MESA LAB				-	12,710	0.00			-	-	yes	-
Maintenance Station									-	-	-	-
BOULEVARD MAINTENANCE STATION	206,221	205,539	180,290	2006	8,311	21.69	78,067	+130.94%	-	yes	yes	-
BRAWLEY MAINTENANCE STATION	16,500	80,562	83,043	2003	8,787	9.45	30,100	+175.89%	-	-	yes	-
CAMINO DEL RIO MAINTENANCE STATION	99,250	48,468	71,328	2006	1,222	58.37	55,217	+29.18%	-	yes	-	-
CARLSBAD MAINTENANCE STATION	541,571	86,300	285,268	2006	8,734	32.66	318,733	-10.50%	-	yes	yes	-
CHOLLAS MAINT		88,538	69,823	2013	2,580	27.06	88,538	-21.14%	-	yes	-	-
CHULA VISTA MAINTENANCE STATION	94,348	159,156	104,838	2006	12,175	8.61	127,159	-17.55%	-	-	yes	-
DESCANSO MAINTENANCE STATION	156,270	158,044	146,852	2006	15,863	9.26	148,217	-0.92%	-	-	yes	-
EL CENTRO MAINTENANCE STATION		198,203	305,545	2013	13,839	22.08	198,203	+54.16%	-	yes	yes	-
ESCONDIDO MAINTENANCE STATION	192,167	135,876	144,028	2006	9,924	14.51	179,102	-19.58%	-	-	yes	-
IMPERIAL AVENUE MAINTENANCE STATION	55,120	69,810	68,595	2006	2,300	29.82	33,049	+107.56%	-	yes	-	-
KEARNEY MESA MAINTAINANCE STATION	10,127,032	1,170,214	1,782,962	2006	96,547	18.47	7,479,859	-76.16%	yes	-	yes	-
LAKE HENSHAW, SANTA YSABEL, MAINTENANCE	94,035	130,475	75,746	2006	4,622	16.39	107,000	-29.21%	-	-	-	-
MIDWAY WELLS MAINTENANCE STATION		70,594	66,295	2013	4,967	13.35	70,594	-6.09%	-	-	-	-
OTAY MAINTENANCE STATION	46,635	50,917	58,127	2006	2,639	22.03	41,831	+38.96%	-	yes	-	-
PACIFIC HIGHWAY MAINTENANCE STATION	46,133	59,638	61,259	2006	1,392	44.01	43,136	+42.01%	-	yes	-	-
RAMONA MAINT				-	1,515	0.00			-	-	-	-
SAN DIEGO/CORONADO MAINTENANCE STATION	215,956	324,063	185,980	2006	5,466	34.02	181,885	+2.25%	-	yes	yes	-
SARATOGA GAP SAND/SALT STORAGE	19,233	19,530	18,981	2003	-		4,084	+364.75%	-	-	-	-
SOUTH ELECTRICAL		2,035,279	1,836,076	2013	4,260	431.00	2,035,279	-9.79%	-	yes	-	yes
Office									-	-	-	-
11 OFFICE (OLD)				-	272,686	0.00			-	yes	-	yes
Other									-	-	-	-
11 ARCHAEOLOGY BUILDING		84,955	71,976	2013	2,345	30.69	84,955	-15.28%	-	yes	-	-
TMC									-	-	-	-
11 SAN DIEGO TMC		8,005,068	7,402,914	2013	60,245	122.88	8,005,068	-7.52%	yes	yes	yes	yes

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	Energy (kBTU)	Energy (kBTU)	Energy (kBTU)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100
12 - Irvine									-	-	-	-
Equipment Shop									-	-	-	-
12 ORANGE EQUIPMENT SHOP	430	5,115	5,104	2013	5,500	0.93	5,115	-0.20%	-	-	yes	-
Maintenance Station									-	-	-	-
BATAVIA MAINTENANCE STATION	512,992	435,422	636,600	2003	79,551	8.00	804,249	-20.85%	yes	-	yes	-
BOLSA CHICA		321,091	177,422	2013	1,753	101.21	321,091	-44.74%	-	yes	-	yes
BREA MAINTENANCE STATION	150,775	151,415	153,181	2003	5,000	30.64	158,597	-3.42%	-	yes	-	-
COSTA MESA	264,098	290,141	544,909	2003	17,664	30.85	444,129	+22.69%	-	yes	yes	-
HUNTINGTON BEACH FIELD OFFICE		283,247	214,854	2003	2,880	74.60	14,300	+1402.47%	-	yes	-	-
MARINE WAY MAINT	40,275	864,806	695,555	2013	14,011	49.64	864,806	-19.57%	-	yes	yes	-
ORANGE MAINTENANCE STATION	683,401	459,400	712,087	2003	11,802	60.34	597,475	+19.18%	-	yes	yes	-
SAN JUAN CAPISTRANO MAINTENANCE STATION	272,515	168,416	184,909	2006	7,315	25.28	116,827	+58.28%	-	yes	yes	-
STANTON MAINTENANCE STATION	204,538	181,253	171,066	2003	3,521	48.58	109,157	+56.72%	-	yes	-	-
TOLL ROAD MAINT	38,815	524,295	553,972	2013	12,987	42.66	524,295	+5.66%	-	yes	yes	-
TMC									-	-	-	-
D12 TMC	598,188	7,460,783	9,988,133	2013	44,000	227.00	7,460,783	+33.88%	-	yes	yes	yes

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Note: 1) Energy data comes from upload into Energy Star Portfolio Manager from Energy companies, or InfoAdvantage (for smaller energy companies). 2) 2003 Baseline energy reported to the Governor's Office can not be determined for each individual building. Only 2/3 of the buildings in this document were reported to the Governor's Office for the baseline data. 3) Baseline data in this document is from the first full year of data entered into ESPM. 4) Data from buildings that are co-located are entered only once with one building.

District-Facility Type-Facility Name	2012	2013	2014	Baseline year	Floor Area (sq/ft)	Current EUI (kBtu/sq ft)	Baseline Energy (kBtu) <small>see note 3</small>	2014 Change from Baseline Energy	EUI thresholds				
	Energy (kBtu)	Energy (kBtu)	Energy (kBtu)						Greater than 50000 sq ft	EUI greater than 20	Greater than 5000	EUI greater than 100	
HQ - Sacramento									-	-	-	-	
Equipment Shop									-	-	-	-	
HEADQUARTERS EQUIPMENT SHOP	8,090,227	7,469,040	7,144,807	2003	85,027	84.03	11,314,383	-36.85%	yes	yes	yes	-	
Lab - HQ									-	-	-	-	
TRANSPORTATION LABORATORY	12,958,180	12,726,670	13,686,396	2003	171,195	79.95	19,200,018	-28.72%	yes	yes	yes	-	
Office									-	-	-	-	
005 DOT HEADQUARTERS OFFICE BUILDING	17,917,924	15,539,026	15,674,099	2003	462,392	33.90	45,287,557	-65.39%	yes	yes	yes	-	
Other - Warehouse									-	-	-	-	
ROYAL OAKS WAREHOUSE	2,151,891	2,150,401	1,895,415	2003	102,558	18.48	2,532,778	-25.16%	yes	-	yes	-	
(blank)									-	-	-	-	
(blank)									-	-	-	-	
(blank)									-	-	-	-	
Grand Total	339,442,832	381,895,468	323,503,444						-30.17%	yes	yes	yes	-

Appendix M – Water Efficiency

Water Conservation Projects

Water Conservation Projects

- District 1 -
 - Director's Order 01-0E540. New fixtures (toilets, urinals, faucets, and shower heads) at 16 maintenance stations. Replace 4 leaky 10,000 gallon water storage tanks.
- District 4 -
 - New buildings:
 - Richmond San Rafael Mtce Facility – June 2014
 - SFOBB Maintenance complex – July 2015
 - SFOBB Tow Service building – July 2014
 - SFOBB Toll Administration Building – July 2014
 - Hesperian Mtce facility – June 2013
- District 5 –
 - A District-wide water efficiency project last year replaced every single water-using fixture in every yard with the latest low-flow devices.
 - Shop 5 - 2015 – All landscaping water & steam cleaners now use recycled water (30% reduction).
- District 7 - used a Director's order in 2014 replacing plumbing fixtures with low-flow faucets, toilets, urinals and shower heads at the following Maintenance Stations :
 - South Region
 - Artesia Landscape
 - Hollywood Landscape
 - Pacific Landscape
 - Torrance Landscape
 - Vincent Thomas Bridge
 - Aviation Maintenance station
 - Long Beach Yard
 - North Region
 - North Region Maintenance Station
 - Highland Park Road Maintenance Station
 - North Hollywood Rd. Maintenance Station
 - Altadena Road Maintenance Station
 - Chilao Road Maintenance Station
 - San Fernando Road Maintenance Station
 - Lebec Road Maintenance Station
 - Lancaster Road Maintenance Station
 - Newhall Maintenance Station
 - East Region
 - Bellflower Maintenance Station
 - Cerritos Maintenance Station
 - Florence Maintenance Station
 - Humphreys Maintenance Station
 - East LA Maintenance Station

- Whittier Landscape
- Diamond Bar Maintenance Station

West Region

- Camarillo Region Office Maintenance Station
- West LA Road Maintenance Station
- Culver City Road Maintenance Station
- Culver City Landscape
- Moorpark Maintenance Station
- Las Flores Maintenance Station
- Ventura Road Maintenance Station
- Ventura Landscape

Special Crew

- Commerce Maintenance Station
- Burbank Maintenance Station
- Vincent Thomas Bridge Maintenance Station
- Mission Hills Maintenance Station
- Willow Electric
- Willow Pump
- Doran Paint
- District 11 TMC - Fixtures for toilets, urinals, shower heads lavatory aerators, kitchen aerators are efficient; landscape is sub-metered. Irrigation sprinkler systems are in compliance with days and minutes as set with San Diego City/County parameters.
- District 12 –
 - All water fixtures in Maintenance Stations (except Huntington Beach Material lab) and the TMC was converted to low efficiency water usage in 2014.
 - SMART controllers' and equipment were used to significantly reduce landscaping irrigation.
 - District 12 uses 25% reclaimed water for landscaping irrigation.
 - Recycling water run-off from the water-cooled condenser to be used for irrigation.

Appendix N – Water Efficiency

Water Fixture Inventory

Appendix O – Water Efficiency

Facilities Water Usage Report

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
01 - Eureka				
Office				
01 DISTRICT OFFICE	271,524	555,016	635,800	-57.29%
DISTRICT 01 ANNEX				
Office Total	271,524	555,016	635,800	-57.29%
Maintenance Station				
BOONVILLE MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
BRACUT MAINTENANCE STATION	188,496	84,524	103,972	+81.29%
BRIDGEVILLE MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
CLEARLAKE OAKS MAINTENANCE STATION	1,144,590	177,276	379,984	+201.22%
CRESCENT CITY MAINTENANCE STATION	151,276	167,043	1,050,192	-85.60%
DINSMORE S/S				
EUREKA MAINT	69,564	80,784	112,948	-38.41%
FORT BRAGG MAINTENANCE STATION	56,848	281,996	365,024	-84.43%
FORTUNA MAINTENANCE STATION	116,000	108,931	72,324	+60.39%
GARBERVILLE MAINTENANCE STATION	188,496	82,280	362,032	-47.93%
IDLEWILD MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
LAKEPORT MAINTENANCE STATION	101,728	35,156	130,900	-22.29%
LEGGETT MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
MANCHESTER MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
ORLEANS MAINTENANCE STATION	0	20,145	2,300	-100.00%
PINE CREEK SAND STORAGE				
RATTLESNAKE CK S/S				
REDWOOD BYPAS S/S				
UKIAH MAINTENANCE STATION	346,000	602,300	427,900	-19.14%
WILLITS MAINTENANCE STATION	305,184	109,208	197,472	+54.55%
WILLOW CREEK MAINTENANCE STATION	1,062,010	995,513	704,466	+50.75%
Maintenance Station Total	4,490,691	3,447,157	4,611,515	-2.62%
Lab - Field				
LOWER LAKE CONSTRUCTION LABORATORY	59,092	13,359	19,523	+202.68%
Lab - Field Total	59,092	13,359	19,523	+202.68%
Lab - District				
01 MATERIALS LAB	35,156	42,636	35,156	0.00%
Lab - District Total	35,156	42,636	35,156	0.00%
Equipment Shop				
01 UKIAH EQUIPMENT SUB-SHOP	118,800	123,100	140,700	-15.57%
EQUIPMENT SHOP 01	103,972	184,008	266,288	-60.96%
Equipment Shop Total	222,772	307,108	406,988	-45.26%
01 - Eureka Total	5,079,235	4,365,276	5,708,981	-11.03%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
02 - Redding				
Office				
02 DISTRICT OFFICE	1,148,928	2,070,464	2,729,452	-57.91%
Office Total	1,148,928	2,070,464	2,729,452	-57.91%
Maintenance Station				
ADIN MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
ALTURAS MAINTENANCE STATION	87,516	210,936	157,828	-44.55%
BARTLE S/S				
BECKWORTH MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
BOGARD SANDHOUSE				
BUCKHORN SANDHOUSE				
BURNEY JUNCTION SAND SALT STORAGE				
BURNEY MAINTENANCE STATION	1,615,456	1,387,360	1,702,568	-5.12%
CANBY SAND HOUSE				
CANYON DAM SAND/SALT STORAGE				
CASTELLA SANDHOUSE				
CEDAR PASS SANDHOUSE				
CHESTER MAINTENANCE STATION	584,900	1,500,900	251,290	+132.76%
DEER CREEK S/S				
DORRIS SANDHOUSE				
FREDONYER SANDHOUSE				
GIBSON MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
GRASS LAKE MAINTENANCE STATION	126,750	117,000	117,000	+8.33%
GRASSHOPPER SANDHOUSE				
GREENVILLE WYE SANDHOUSE				
HALLELUJAH JCT SANDHOUSE				
HAT CREEK MAINTENANCE STATION	326,876	142,120	1,068,892	-69.42%
HATCHET MTN SANDHOUSE				
HAYFORK MAINTENANCE STATION	99,783	110,854	126,262	-20.97%
HILT SANDHOUSE				
JUNCTION 44/36 SAND STORAGE				
LEE'S SUMMIT SANDHOUSE				
MCCLOUD SAND HOUSE				
MINERAL MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
MT. SHASTA MAINTENANCE STATION	114,075	105,300	105,300	+8.33%
NEWELL MAINTENANCE STATION	3,740	2,244	748	+400.00%
PLATINA MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
PULGA MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
QUINCY MAINTENANCE STATION	213,900	860,200	214,600	-0.33%
RED BLUFF MAINTENANCE STATION	681,727	3,332,340	2,103,526	-67.59%
REDDING MAINTENANCE STATION	1,775,752	1,938,816	1,638,120	+8.40%
SALT CREEK SAND STORAGE				
SEMINARY LANDSCAPE MAINTENANCE	76,050	70,200	70,200	+8.33%
SUSANVILLE MAINTENANCE STATION	447,588	63,602	729,427	-38.64%
TERMO SAND HOUSE				
TRINITY CENTER MAINTENANCE STATION	101,400	93,600	93,600	+8.33%
WEAVERVILLE MAINTENANCE STATION	213,928	651,508	655,248	-67.35%
WEED S/S				
WILLOW CREEK SAND STORAGE				
YREKA MAINTENANCE STATION	282,900	580,000	733,900	-61.45%
Maintenance Station Total	7,436,791	11,798,781	10,400,309	-28.49%
Lab - District				
02 MATERIALS LAB				
Lab - District Total				
Equipment Shop				

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
02 REDDING EQUIPMENT SHOP				
02 SUSANVILLE EQUIPMENT SUB-SHOP				
Equipment Shop Total				
02 - Redding Total	8,585,719	13,869,245	13,129,761	-34.61%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
03 - Marysville				
TMC				
D3 TMC COMMUNICATIONS	2,581,378	9,810,020	5,277,140	-51.08%
TMC Total	2,581,378	9,810,020	5,277,140	-51.08%
Office				
03 DISTRICT OFFICE (OLD COMPLEX, NOW DEMO'D, HOLD FOR HISTORY.)				
DISTRICT 03 OFFICE - DMV ANNEX	92,752	79,288	142,120	-34.74%
Office Total	92,752	79,288	142,120	-34.74%
Maintenance Station				
12TH AVE HWY MAINT STORAGE SATELLITE				
12TH STREET MAINTENANCE STATION	617,100	1,225,972	610,368	+1.10%
2ND ST SATELLITE				
3RD ST SATELLITE	25,350	23,400	23,400	+8.33%
47TH AVE MAINT				
AUBURN MAINTENANCE STATION	246,092	309,672	644,028	-61.79%
CAMINO S/S				
CASTLE PEAK S/S				
CHICO MAINTENANCE STATION	1,169,124	1,667,292	1,378,564	-15.19%
CISCO S/S				
COLUSA MAINTENANCE STATION	208,692	181,016	72,556	+187.63%
DOWNIEVILLE MAINTENANCE STATION	164,775	152,100	152,100	+8.33%
EL DORADO S/S				
ELK GROVE MAINTENANCE STATION	267,784	495,176	294,712	-9.14%
EMPIRE ST SATELLITE				
ESPARTO MAINTENANCE STATION	86,768	79,288	80,036	+8.41%
FLORISTON S/S				
GOLD RUN S/S				
KINGVALE MAINTENANCE STATION	329,550	304,200	304,200	+8.33%
KYBURZ MAINTENANCE STATION	177,450	163,800	163,800	+8.33%
MARYSVILLE MAINTENANCE STATION	5,236	3,740	8,976	-41.67%
NEVADA CITY (SUTTER/SIERRA REGION) MAINTENANCE	1,739,100	730,048	727,056	+139.20%
NORTHGATE MAINTENANCE STATION	253,500	234,000	234,000	+8.33%
OLD GOLD LAKE RD S/S				
PLACERVILLE MAINTENANCE STATION	286,035	424,640	431,372	-33.69%
RICHARDS BLVD SATELLITE				
RIVERTON S/S				
ROSEVILLE MAINTENANCE STATION	116,688	84,524	125,664	-7.14%
SIERRAVILLE MAINTENANCE STATION	12	33	0	
SOUTH LAKE TAHOE MAINTENANCE STATION	2,505,800	1,163,140	718,080	+248.96%
SPECIAL CREWS MAINTENANCE STATION	237,266	163,244	131,835	+79.97%
SUNRISE MAINTENANCE STATION				
TAHOE CITY MAINTENANCE STATION	437,230	410,510	37,210	+1075.03%
TRUCKEE MAINTENANCE STATION	1,163,000	283,000	2,295,900	-49.34%
WEST SACRAMENTO MAINTENANCE STATION	321,640	345,576	379,236	-15.19%
WHITMORE MAINTENANCE STATION	395,460	365,040	365,040	+8.33%
WILLOWS MAINTENANCE STATION	151,096	133,892	144,364	+4.66%
WOODLAND MAINTENANCE STATION	146,608	220,144	300,561	-51.22%
YUBA ST MAINTENANCE STATION			276,760	-100.00%
Maintenance Station Total	11,051,356	9,163,446	9,899,818	+11.63%
Lab - Field				
ECHO SUMMIT CONSTRUCTION LABORATORY	650	600	600	+8.33%
Lab - Field Total	650	600	600	+8.33%
Equipment Shop				
03 MEYERS EQUIPMENT SUB-SHOP				
03 TRUCKEE EQUIPMENT SUB-SHOP				

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
EQUIPMENT SHOP 03	415,888	207,944	677,688	-38.63%
Equipment Shop Total	415,888	207,944	677,688	-38.63%
03 - Marysville Total	14,142,024	19,261,298	15,997,366	-11.60%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
04 - Oakland				
Other - Toll Plaza				
ANTIOCH MAINTENANCE STATION	384,472	518,364	1,350,888	-71.54%
Other - Toll Plaza Total	384,472	518,364	1,350,888	-71.54%
Office				
04 DISTRICT OFFICE	8,032,772	7,847,268	6,402,132	+25.47%
Office Total	8,032,772	7,847,268	6,402,132	+25.47%
Maintenance Station				
ALCOSTA LANDSCAPE STATION	301,444	861,696	2,521,508	-88.05%
ANTIOCH BRIDGE TOLL PLAZA	86,020	99,484	77,792	+10.58%
ANTIOCH SUB YARD SATELLITE				
BENICIA MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
BODEGA BAY MAINTENANCE STATION	1,571	55,202	397,487	-99.60%
CALDECOTT TUNNEL	0	8,976		
CALISTOGA MAINTENANCE STATION	11,220	65,824	55,352	-79.73%
CARQUINEZ TOLL PLAZA MAINT	1,495,252	1,947,044	1,103,300	+35.53%
CASTRO VALLEY MAINT			48,620	-100.00%
CUPERTINO MAINTENANCE STATION	328,372	400,928	296,956	+10.58%
DELTA REGION MAINTENANCE STATION	195,976	222,156	300,696	-34.83%
DIXON MAINTENANCE STATION	50,700	46,800	46,800	+8.33%
EAST BAY REGION MAINTENANCE STATION	1,411,476	1,383,052	1,083,104	+30.32%
FAIRFIELD MAINTENANCE STATION	1,214,004	777,920	354,552	+242.41%
FORT ROSS MAINTENANCE STATION	50,700	46,800	46,800	+8.33%
FREMONT MAINTENANCE STATION	1,257,388	213,180	144,364	+770.98%
GEYSERVILLE MAINTENANCE STATION	92,004	69,055	119,934	-23.29%
GILROY MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
HALF MOON BAY MAINT	38,148	20,944	13,464	+183.33%
HERCULES MAINTENANCE STATION	681,428	994,092	1,536,392	-55.65%
KEMPTON MAINT				
LIVERMORE MAINTENANCE STATION	215,424	79,288	213,928	+0.70%
LOS GATOS SATELLITE				
MANZANITA MAINTENANCE STATION	774,180	524,348	28,424	+2623.68%
MIDDLEFIELD ROAD MAINTENANCE STATION	525,844	231,132	142,120	+270.00%
MILLBRAE MAINT	147,356	142,120	4,488	+3183.33%
MILPITAS LANDSCAPE MAINTENANCE	123,420	361,284	111,452	+10.74%
NAPA MAINTENANCE STATION	255,000	588,000	534,000	-52.25%
NORTH BAY REGION	52,360	90,508	74,800	-30.00%
POINT REYES MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
REDWOOD CITY MAINT	45,628	49,368	77,044	-40.78%
RICHMOND CONSTRUCTION LABORATORY	0	0	7,480	-100.00%
RICHMOND-SAN RAFAEL TOLL PLAZA	601,392	459,272	719,576	-16.42%
RIO VISTA MAINTENANCE STATION	199,716	249,084	149,600	+33.50%
SAN FRANCISCO MAINT	409,156	339,592	327,624	+24.89%
SAN MATEO PAINT	854,216	705,364	148,104	+476.77%
SAN RAFAEL LANDS				
SAN RAFAEL PAINT SHOP	177,276	154,088	121,924	+45.40%
SANTA CRUZ MAINTENANCE STATION	420,376	356,796	346,324	+21.38%
SANTA ROSA LANDSCAPE STATION	29,172	86,020	121,176	-75.93%
SANTEE MAINTENANCE STATION	796,620	544,544	509,388	+56.39%
SHELLVILLE MAINTENANCE STATION				
SEBASTOPOL MAINTENANCE STATION	63,375	58,500	58,500	+8.33%
SEIAD VALLEY MAINTENANCE STATION	101,400	93,600	93,600	+8.33%
SESPE GORGE S/S				
SKYLONDA STORAGE				
SOUTH BAY REGION	736,032	859,452	739,024	-0.40%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

	2014	2013	2010	
District-Building Type-Building Name	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	2014 Change from 2010 Baseline
SOUTH OAKLAND MAINTENANCE STATION			3,416,864	-100.00%
SOUTH PETALUMA MAINTENANCE STATION	22,440	48,620	47,124	-52.38%
SOUTH SAN JOSE MAINT	105,468	110,704	80,036	+31.78%
SPECIALTY REGION HESPERIAN	908,072	1,398,760	80,036	+1034.58%
SPECIALTY REGION MAINT	73,304	801,856	1,709,180	-95.71%
STERLING SUB STATION				
TELEGRAPH MAINT	103,224	68,816	31,416	+228.57%
TOLL BRIDGE REGION MAINT	4,382,532	4,034,712	3,057,824	+43.32%
TRI-BRIDGE YARD	203,456	1,507,968	1,373,328	-85.19%
VALLEJO MAINTENANCE STATION	44,880	37,400	161,568	-72.22%
WALNUT CREEK WEST MAINTENANCE STATION	195,976	222,156	116,688	+67.95%
WEST BAY PAINT	83,776	98,736	0	
WEST BAY REGION MAINTENANCE STATION	451,044	316,404	293,216	+53.83%
WESTBOROUGH MAINT				
WOODSIDE MAINTENANCE STATION	46,376	20,944	14,960	+210.00%
YERBA BUENA ISLAND	153,340	26,610	28,590	+436.34%
Maintenance Station Total	20,847,084	22,183,400	23,390,728	-10.87%
Lab - Field				
ORINDA CONSTRUCTION LABORATORY			17,204	-100.00%
Lab - Field Total			17,204	-100.00%
Lab - District				
04 MATERIALS LAB	105,468	145,860	603,636	-82.53%
Lab - District Total	105,468	145,860	603,636	-82.53%
Equipment Shop				
04 FAIRFIELD EQUIPMENT SUB-SHOP				
04 OAKLAND EQUIPMENT SUB-SHOP				
04 SAN FRANCISCO EQUIPMENT SUB-SHOP				
04 SAN JOSE EQUIPMENT SUB-SHOP				
EQUIPMENT SHOP 04		150,348	200,464	-100.00%
Equipment Shop Total		150,348	200,464	-100.00%
04 - Oakland Total	29,369,796	30,845,240	31,965,052	-8.12%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
05 - San Luis Obispo				
Office				
05 DISTRICT OFFICE	1,137,708	1,427,184	1,301,520	-12.59%
Office Total	1,137,708	1,427,184	1,301,520	-12.59%
Maintenance Station				
BIG SUR MAINT	50,700	46,800	46,800	+8.33%
BUELLTON MAINTENANCE STATION	182,512	162,316	127,160	+43.53%
CAMBRIA MAINTENANCE STATION	50,700	46,800	46,800	+8.33%
CUYAMA MAINTENANCE STATION	25,350	23,400	23,400	+8.33%
EMELINE LANDSCAPE SATELLITE				
HOLLISTER MAINTENANCE STATION	212,432	33,136	118,932	+78.62%
KING CITY MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
MONTEREY MAINTENANCE STATION	237,689	124,900	36,900	+544.14%
SALINAS MAINTENANCE STATION	384,472	605,132	638,044	-39.74%
SAN LUIS OBISPO MAINT	59,840	49,368	1,120,504	-94.66%
SANTA BARBARA MAINTENANCE STATION	760,716	815,320	655,248	+16.10%
SANTA MARIA MAINTENANCE STATION	436,832	629,068	792,880	-44.91%
SHAVER LAKE MAINTENANCE STATION	304,200	280,800	280,800	+8.33%
TEMPLETON MAINTENANCE STATION	449,548	355,300		
WILLOW SPRINGS MAINT	501,930	463,320	463,320	+8.33%
Maintenance Station Total	3,809,021	3,776,060	4,491,188	-15.19%
Lab - Field				
CUESTA GRADE CONSTRUCTION LABORATORY	11,262	10,400	10,400	+8.29%
Lab - Field Total	11,262	10,400	10,400	+8.29%
Equipment Shop				
EQUIPMENT SHOP 05 (2501)	80,784	89,012	95,744	-15.63%
Equipment Shop Total	80,784	89,012	95,744	-15.63%
05 - San Luis Obispo Total	5,038,775	5,302,656	5,898,852	-14.58%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
06 - Fresno				
Office				
06 DISTRICT OFFICE	2,318,800	4,728,108	1,633,632	+41.94%
Office Total	2,318,800	4,728,108	1,633,632	+41.94%
Maintenance Station				
BAKERSFIELD MAINTENANCE STATION	3,499,892	475,728	2,285,140	+53.16%
BIG CEDAR SPRINGS MAINT	25,350	23,400	23,400	+8.33%
BODFISH MAINTENANCE STATION	22,440	39,644	33,660	-33.33%
COALINGA YARD MAINTENANCE STATION	1,408,970	1,844,441	152,517	+823.81%
COARSEGOLD MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
DELANO MAINTENANCE STATION	566,300	481,600	450,600	+25.68%
FRESNO MAINTENANCE STATION	23,188	39,644	52,360	-55.71%
GLENNVILLE MAINTENANCE STATION	25,350	23,400	23,400	+8.33%
HAPPY GAP S/S				
HUNTINGTON LAKE SATELLITE MAINT	27,300	23,400	23,400	+16.67%
KETTLEMAN CITY MAINTENANCE STATION	62,084	17,952	53,856	+15.28%
LEMON COVE MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
LEMOORE YARD MAINTENANCE STATION	623,084	94,248	332,860	+87.19%
LOST HILLS MAINTENANCE STATION (SATELLITE)	25,350	23,400	23,400	+8.33%
MADERA MAINTENANCE STATION	237,191	251,403	119,979	+97.69%
MCKITTRICK MAINTENANCE STATION	109,208	20,196	486,948	-77.57%
MENDOTA MAINTENANCE STATION	21,860	15,592	86,580	-74.75%
PIERPOINT SPRINGS/CAMP NELSON MAINTENANCE	25,350	23,400	23,400	+8.33%
PINEHURST MAINTENANCE STATION	114,075	105,300	105,300	+8.33%
PORTERVILLE MAINTENANCE STATION	50,116	59,092	94,248	-46.83%
SHERWIN GRAD SAND/SALT STORAGE				
TAFT MAINTENANCE STATION	30,870	53,243	57,454	-46.27%
TULARE MAINT	216,000	1,151,000	165,000	+30.91%
VISALIA MAINT	443,625	409,500	409,500	+8.33%
WASCO MAINTENANCE STATION	256,265	41,439	39,794	+543.98%
WEST AVENUE MAINTENANCE STATION	479,468	673,200	1,785,476	-73.15%
Maintenance Station Total	8,584,861	6,159,321	7,097,372	+20.96%
Lab - District				
06 MATERIALS LAB				
Lab - District Total				
Equipment Shop				
BAKERSFIELD EQ SUB-SHOP 2 (36-06-02)				
EQUIPMENT SHOP 06 (2601)	5,984	728,552	983,620	-99.39%
Equipment Shop Total	5,984	728,552	983,620	-99.39%
06 - Fresno Total	10,909,645	11,615,981	9,714,624	+12.30%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
07 - Los Angeles				
TMC				
LOS ANGELES REGIONAL TMC	1,682,252	1,408,484	1,142,196	+47.28%
TMC Total	1,682,252	1,408,484	1,142,196	+47.28%
Other - RE Office				
WESTWOOD CONSTRUCTION OFFICE	56,331	52,000	52,000	+8.33%
Other - RE Office Total	56,331	52,000	52,000	+8.33%
Office				
07 DISTRICT OFFICE	17,191,284	12,762,376	10,533,336	+63.21%
Office Total	17,191,284	12,762,376	10,533,336	+63.21%
Maintenance Station				
ALAMEDA MAINTENANCE STATION	322,388	148,104	224,400	+43.67%
ALTADENA MAINTENANCE STATION	804,848	566,236	666,468	+20.76%
APPLE LANDSCAPE	2,270,928	2,067,472	3,241,832	-29.95%
ARTESIA MAINTENANCE STATION	82,280	65,076	74,052	+11.11%
BELLFLOWER MAINTENANCE STATION	83,028	74,052	96,492	-13.95%
BIG SYCAMORE MAINTENANCE STATION	152,100	140,400	140,400	+8.33%
BUENA VISTA MAINTENANCE STATION	34,550	75,742	1,878,228	-98.16%
BURBANK ELECTRICAL STATION	0	0	12,716	-100.00%
CEDAR SPRINGS S/S				
CENTRAL BANDINI MAINTENANCE STATION	611,864	480,216	154,088	+297.09%
CENTURY/SOUTH REGION MAINT	0	240,108	341,088	-100.00%
CERRITOS MAINTENANCE STATION	100,232	198,968	145,860	-31.28%
CHILAO MAINT	152,100	140,400	140,400	+8.33%
CULVER CITY MAINTENANCE STATION	85,272	175,032	149,600	-43.00%
DIAMOND BAR MAINTENANCE STATION	178,772	175,780	347,072	-48.49%
DORAN MAINTENANCE STATION	85,272	46,630	173,536	-50.86%
EAST LOS ANGELES MAINT	217,668	196,724	209,440	+3.93%
FILLMORE MAINTENANCE STATION	691,900	684,420	657,492	+5.23%
FLORENCE AVENUE MAINTENANCE STATION	228,888	243,100	151,096	+51.49%
FOOTHILL MAINTENANCE STATION	375,496	310,420	224,400	+67.33%
FRAZIER MOUNTAIN PARKSAND/SALT STORAGE				
HUMPHREY MAINT	133,892	242,352	1,447,380	-90.75%
LANCASTER MAINTENANCE STATION	142,868	130,152	296,956	-51.89%
LAS FLORES MAINTENANCE STATION	273,020	118,932	468,996	-41.79%
LEBEC MAINTENANCE STATION 1	335,478	199,118	585,347	-42.69%
LIEBRE GULCH S/S				
LONG BEACH MAINTENANCE STATION	883,388	713,592	395,692	+123.25%
MAINTENANCE EQUIP TRAINING CTR	121,924	56,848	22,440	+443.33%
METRO ELECTRICAL	20,944	12,716	117,436	-82.17%
MIDDLEBURY MAINT	122,672	11,220	76,296	+60.78%
MISSION HILLS MAINT	709,104	26,180	495,924	+42.99%
MOORPARK MAINT	253,500	234,000	234,000	+8.33%
MT WILSON S/S				
NEWHALL MAINTENANCE STATION/NORTH REGION	1,002	4,840	27,467	-96.35%
NORTH HOLLYWOOD MAINTENANCE STATION	342,584	157,828	768,944	-55.45%
OJAI MAINTENANCE STATION	148,104	117,436	111,452	+32.89%
PACIFIC PLACE MAINTENANCE STATION	548,284	958,936	2,201,364	-75.09%
POMONA MAINT	1,254,396	1,505,724	883,388	+42.00%
QUAIL LAKE S/S				
ROSEMEAD MAINTENANCE STATION	0	0	0	
SAN FERNANDO MAINTENANCE STATION	560,252	314,908	559,504	+0.13%
SAN GABRIEL ELECTRICAL MAINTENANCE STATION	1,035,980	1,252,900	409,156	+153.20%
SANTA PAULA MAINT	73,304	115,192	63,580	+15.29%
SHANDON MAINTENANCE STATION	128,656	221,408	231,132	-44.34%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
SILVERLAKE MAINTENANCE STATION	1,700,204	1,211,012	1,303,764	+30.41%
TARZANA MAINTENANCE STATION	436,832	93,500		
TEJON MTN S/S				
TERMINAL ISLAND MAINT	73,304	32,164	38,148	+92.16%
TORRANCE MAINTENANCE STATION	47,124	33,660		
VALENCIA & NORTH REGION MAINT	661,980	694,892	294,712	+124.62%
VENTURA MAINTENANCE STATION	684,420	478,720	503,404	+35.96%
VENTURA REGION OFFICE	145,112	304,436	216,920	-33.10%
VICTORVILLE MAINTENANCE STATION	85,272	28,424	4,997,388	-98.29%
VINCENT S/S				
VINCENT THOMAS BRIDGE MAINTENANCE STATION (PAINT)	136,884	89,012	44,132	+210.17%
WARD ROAD S/S				
WEST REGION MAINTENANCE STATION	733,040	908,820	695,640	+5.38%
WESTDALE MAINT	330,616	71,060	371,008	-10.89%
WHITTAKER SUMMIT S/S				
WHITTIER AND EAST REGION MAINTENANCE STATION	728,552	923,032	440,572	+65.37%
WILLOW ST. ELECTRICAL CREW	123,420	40,392	47,124	+161.90%
Maintenance Station Total	19,453,698	17,332,286	27,377,926	-28.94%
Lab - District				
07 DISTRICT LAB			66,572	-100.00%
LOS ANGELES LABORATORY/OFFICE				
Lab - District Total			66,572	-100.00%
Equipment Shop				
07 COMMERCE EQUIPMENT SUB-SHOP				
07 LOS ANGELES EQUIPMENT SUB-SHOP				
EQUIPMENT SHOP 07 (2701)	190,740	568,480	201,212	-5.20%
Equipment Shop Total	190,740	568,480	201,212	-5.20%
07 - Los Angeles Total	38,574,305	32,123,626	39,373,242	-2.03%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
08 - San Bernardino				
TMC				
08 INLAND EMPIRE TMC (SAN BERNARDINO)	5,665,352	4,801,412		
TMC Total	5,665,352	4,801,412		
Other				
08 IND ASSURANCE BLDG				
Other Total				
Office				
08 DISTRICT OFFICE (SAN BERNARDINO GOV'T CENTER OFFICE BLDG)	19,189,192	20,201,984	17,497,216	+9.67%
Office Total	19,189,192	20,201,984	17,497,216	+9.67%
Maintenance Station				
BANNING MAINTENANCE STATION	711,348	2,490,840	1,093,576	-34.95%
BARSTOW MAINTENANCE STATION	677,688	416,636	795,124	-14.77%
BEECHERS CORNER MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
BLYTHE MAINTENANCE STATION	161,000	440,000	407,000	-60.44%
BURNT MILL MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
CAJON MAINTENANCE STATION	253,500	234,000	234,000	+8.33%
CAJON PASS S/S				
CAMP ANGELUS MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
CORONA MAINTENANCE STATION	1,525,920	989,604	1,074,128	+42.06%
DAWSON SUMMIT S/S				
DESERT CENTER MAINTENANCE STATION	288,990	266,760	266,760	+8.33%
DRY CREEK MAINT	22,986	36,727	76,969	-70.14%
ELSINORE MAINTENANCE STATION	316,404	241,604	146,608	+115.82%
ESSEX MAINTENANCE STATION	288,990	266,760	266,760	+8.33%
FAWNSKIN MAINTENANCE STATION	109,208	109,956	127,908	-14.62%
HEMET MAINTENANCE STATION	216,920	134,640	117,436	+84.71%
INDIO MAINTENANCE STATION	24,684	99,484	3,740	+560.00%
KEEN CAMP	47,775	122,850	81,900	-41.67%
LAKEVIEW POINT SATELLITE				
MAGANA ORTEGA	2,462,416	525,844	2,276,164	+8.18%
MOUNTAIN PASS	40,950	105,300	70,200	-41.67%
NEEDLES MAINTENANCE STATION	508,820	391,556	847,626	-39.97%
ONTARIO MAINTENANCE STATION	510,136	654,500	851,224	-40.07%
PARADISE VALLEY MAINTENANCE STATION	70,312	20,944	128,656	-45.35%
RIVERSIDE MAINTENANCE STATION	431,596	119,680	644,776	-33.06%
SAN BERNARDINO MAINTENANCE STATION	1,095,072	1,161,644	3,398,912	-67.78%
VIDAL MAINT	40,950	105,300	70,200	-41.67%
Maintenance Station Total	10,071,840	9,180,328	13,225,367	-23.84%
Lab - District				
08 OLD MATERIALS LAB	216,920	23,188	133,144	+62.92%
08 SOUTHERN REGION LAB	2,018,852	4,995,892		
Lab - District Total	2,235,772	5,019,080	133,144	+1579.21%
Equipment Shop				
08 BARSTOW EQUIPMENT SUB-SHOP				
EQUIPMENT SHOP 08 (2801)	450,296	484,704	441,320	+2.03%
Equipment Shop Total	450,296	484,704	441,320	+2.03%
08 - San Bernardino Total	37,612,452	39,687,508	31,297,047	+20.18%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
09 - Bishop Office				
09 DISTRICT OFFICE	732,331	676,000	676,000	+8.33%
Office Total	732,331	676,000	676,000	+8.33%
Maintenance Station				
BISHOP MAINTENANCE STATION	316,875	292,500	292,500	+8.33%
BRIDGEPORT MAINTENANCE STATION	113,696	128,700	128,700	-11.66%
CONWAY SUMMIT SAND STORAGE				
CRESTVIEW MAINTENANCE STATION	50,700	46,800	46,800	+8.33%
DEATH VALLEY MAINTENANCE STATION	18,700	9,032,848	50,116	-62.69%
INDEPENDENCE MAINTENANCE STATION (OPEN)	142,868	160,072	492,932	-71.02%
INYOKERN MAINTENANCE STATION	798,116	89,012	1,939,564	-58.85%
LEE VINING MAINTENANCE STATION	2,992	92,004	748	+300.00%
LONE PINE S/S				
MCGEE MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
MINARET SATELLITE	25,350	23,400	23,400	+8.33%
MOJAVE MAINTENANCE STATION	294,000	197,000	136,000	+116.18%
SHINGLETOWN SAND HOUSE				
SHOSHONE MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
SONORA JUNCTION MAINTENANCE STATION	126,750	117,000	117,000	+8.33%
TEHACHAPI MAINTENANCE STATION	116,000	150,000	70,000	+65.71%
TEHACHAPI SAND STORAGE				
Maintenance Station Total	2,284,897	10,586,736	3,555,160	-35.73%
Equipment Shop				
09 BISHOP EQUIPMENT SHOP	190,125	175,500		
Equipment Shop Total	190,125	175,500		
09 - Bishop Total	3,207,353	11,438,236	4,231,160	-24.20%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
10 - Stockton				
Office				
10 DISTRICT OFFICE	3,047,352	5,048,252	5,206,828	-41.47%
Office Total	3,047,352	5,048,252	5,206,828	-41.47%
Maintenance Station				
ALTAVILLE COMMAND TRAILER				
ALTAVILLE MAINTENANCE STATION	379,236	581,944	610,368	-37.87%
ALTAVILLE OFFICE BUILDING				
CABBAGE PATCH MAINTENANCE STATION	119,145	109,980	109,980	+8.33%
CAMP CONNELL MAINTENANCE STATION	152,966	180,044	286,858	-46.68%
CAPLES LAKE MAINT	88,725	81,900	81,900	+8.33%
COULTERVILLE MAINTENANCE STATION	8,000	8,000	7,000	+14.29%
GROVELAND MAINTENANCE STATION	103,290	167,670	75,628	+36.58%
IONE MAINTENANCE STATION	372,504	228,140	184,756	+101.62%
LODI MAINTENANCE STATION	317,997	138,455	340,340	-6.56%
LONG BARN MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
LOS BANOS MAINTENANCE STATION	227,392	126,412	468,248	-51.44%
MERCED MAINTENANCE STATION	954,448	1,262,624	748,000	+27.60%
MIDPINES MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
MILT'S PLACE S/S				
MODESTO MAINTENANCE STATION	555,016	834,020	876,656	-36.69%
MUD SPRINGS S/S				
PATTERSON MAINTENANCE STATION	42,636	43,384	2,992	+1325.00%
PEDDLER HILL MAINT	139,425	128,700	128,700	+8.33%
PICKETS S/S				
PINE GROVE MAINTENANCE STATION	188,272	95,744	114,968	+63.76%
PINECREST SAND STORAGE				
SONORA MAINTENANCE STATION	88,725	81,900	81,900	+8.33%
SOULSBYVILLE S/S				
STOCKTON LANDSCAPE	88,725	81,900	81,900	+8.33%
STOCKTON MAINTENANCE STATION	27,676	38,896	50,864	-45.59%
STOCKTON MAINTENANCE STATION 1690				
TIP TOP SAND STORAGE				
TRACY MAINTENANCE STATION	139,425	128,700	128,700	+8.33%
WEST POINT MAINTENANCE STATION	120,301	76,977	133,929	-10.18%
WOODFORDS MAINTENANCE STATION	101,400	93,600	93,600	+8.33%
Maintenance Station Total	4,392,754	4,652,789	4,771,087	-7.93%
Lab - District				
10 LAB				
Lab - District Total				
Equipment Shop				
10 STOCKTON EQUIPMENT SHOP				
Equipment Shop Total				
10 - Stockton Total	7,440,106	9,701,041	9,977,915	-25.43%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
11 - San Diego				
TMC				
11 SAN DIEGO TMC	873,664	823,548	638,792	+36.77%
TMC Total	873,664	823,548	638,792	+36.77%
Other				
11 ARCHAEOLOGY BUILDING	0	0	32,912	-100.00%
Other Total	0	0	32,912	-100.00%
Office				
11 OFFICE (OLD)			439,076	-100.00%
Office Total			439,076	-100.00%
Maintenance Station				
BOULEVARD MAINTENANCE STATION	190,125	175,500	175,500	+8.33%
BRAWLEY MAINTENANCE STATION	253,500	234,000	234,000	+8.33%
CAMINO DEL RIO MAINTENANCE STATION	384,472	439,824	136,136	+182.42%
CARLSBAD MAINTENANCE STATION	204,952	160,072	160,072	+28.04%
CHOLLAS MAINT	22,440	12,716	20,944	+7.14%
CHULA VISTA MAINTENANCE STATION	370,260	339,592	266,288	+39.04%
DESCANSO MAINTENANCE STATION	190,125	175,500	175,500	+8.33%
EL CENTRO MAINTENANCE STATION	195,000	113,000	177,000	+10.17%
ESCONDIDO MAINTENANCE STATION	197,472	277,508	1,850,552	-89.33%
IMPERIAL AVENUE MAINTENANCE STATION	165,308	288,728	186,252	-11.24%
KEARNEY MESA MAINTAINANCE STATION				
LAKE HENSHAW, SANTA YSABEL, MAINTENANCE	190,125	175,500	175,500	+8.33%
MIDWAY WELLS MAINTENANCE STATION	190,125	175,500	175,500	+8.33%
OTAY MAINTENANCE STATION	112,200	123,420	119,680	-6.25%
PACIFIC HIGHWAY MAINTENANCE STATION	14,212	42,636	61,336	-76.83%
RAMONA MAINT				
SAN DIEGO/CORONADO MAINTENANCE STATION	82,280	107,712	69,564	+18.28%
SARATOGA GAP SAND/SALT STORAGE	6,341	5,850	5,850	+8.39%
SOUTH ELECTRICAL	18,434	5,318	5,629	+227.48%
Maintenance Station Total	2,787,371	2,852,376	3,995,303	-30.23%
Lab - District				
11 KEARNEY MESA LAB			308,924	-100.00%
Lab - District Total			308,924	-100.00%
Equipment Shop				
11 EL CENTRO SUB-SHOP	70,000	89,000	42,000	+66.67%
11 SAN DIEGO EQUIPMENT SHOP				
Equipment Shop Total	70,000	89,000	42,000	+66.67%
11 - San Diego Total	3,731,035	3,764,924	5,457,007	-31.63%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
12 - Irvine				
TMC				
D12 TMC	611,864	506,396	760,716	-19.57%
TMC Total	611,864	506,396	760,716	-19.57%
Maintenance Station				
BATAVIA MAINTENANCE STATION	1,523,676	814,572	1,086,844	+40.19%
BOLSA CHICA	217,668	163,812	2,696,540	-91.93%
BREA MAINTENANCE STATION	514,624	641,036	3,487,924	-85.25%
COSTA MESA	451,044	702,372	350,064	+28.85%
HUNTINGTON BEACH FIELD OFFICE	48,620	34,408	121,924	-60.12%
MARINE WAY MAINT	44,132	2,241,008	1,032,240	-95.72%
ORANGE MAINTENANCE STATION	213,928	154,088	212,432	+0.70%
SAN JUAN CAPISTRANO MAINTENANCE STATION	372,504	163,812	163,812	+127.40%
STANTON MAINTENANCE STATION	273,768	261,800	122,672	+123.17%
TOLL ROAD MAINT	14,960	17,952	80,036	-81.31%
Maintenance Station Total	3,674,924	5,194,860	9,354,488	-60.71%
Equipment Shop				
12 ORANGE EQUIPMENT SHOP				
Equipment Shop Total				
12 - Irvine Total	4,286,788	5,701,256	10,115,204	-57.62%

Facilities Water Usage Report

District-Building Type-Building Name	2014	2013	2010	2014 Change from 2010 Baseline
	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	
HQ - Sacramento				
Other - Warehouse				
ROYAL OAKS WAREHOUSE	778,631	1,614,184	1,168,376	-33.36%
Other - Warehouse Total	778,631	1,614,184	1,168,376	-33.36%
Office				
005 DOT HEADQUARTERS OFFICE BUILDING	4,984,822	3,824,374	3,484,932	+43.04%
Office Total	4,984,822	3,824,374	3,484,932	+43.04%
Lab - HQ				
TRANSPORTATION LABORATORY	5,172,869	5,172,869	5,172,869	0.00%
Lab - HQ Total	5,172,869	5,172,869	5,172,869	0.00%
Equipment Shop				
HEADQUARTERS EQUIPMENT SHOP	3,420,133	745,846	515,402	+563.59%
Equipment Shop Total	3,420,133	745,846	515,402	+563.59%
HQ - Sacramento Total	14,356,454	11,357,273	10,341,579	+38.82%

Facilities Water Usage Report

	2014	2013	2010	
District-Building Type-Building Name	Water Usage (Gallons)	Water Usage (Gallons)	Water Usage (Gallons)	2014 Change from 2010 Baseline
Grand Total	182,333,686	199,033,561	193,207,790	-5.63%

Appendix P – Water Efficiency

Facilities Water Analysis

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
01 - Eureka						
Office						
	01 DISTRICT OFFICE	271,524	3.36	6.87	7.87	-57.29%
	DISTRICT 01 ANNEX		0.00	0.00	0.00	
	Office Total	271,524	3.30	6.74	7.73	-57.29%
Maintenance Station						
	BOONVILLE MAINTENANCE STATION	152,100	22.80	21.05	21.05	+8.33%
	BRACUT MAINTENANCE STATION	188,496	6.75	3.03	3.72	+81.29%
	BRIDGEVILLE MAINTENANCE STATION	152,100	54.24	50.07	50.07	+8.33%
	CLEARLAKE OAKS MAINTENANCE STATION	1,144,590	408.78	63.31	135.71	+201.22%
	CRESCENT CITY MAINTENANCE STATION	151,276	122.99	135.81	853.81	-85.60%
	DINSMORE S/S					
	EUREKA MAINT	69,564	10.74	12.47	17.43	-38.41%
	FORT BRAGG MAINTENANCE STATION	56,848	15.39	76.32	98.79	-84.43%
	FORTUNA MAINTENANCE STATION	116,000	31.59	29.67	19.70	+60.39%
	GARBERVILLE MAINTENANCE STATION	188,496	29.89	13.05	57.40	-47.93%
	IDLEWILD MAINTENANCE STATION	152,100	17.33	16.00	16.00	+8.33%
	LAKEPORT MAINTENANCE STATION	101,728	18.77	6.49	24.15	-22.29%
	LEGGETT MAINTENANCE STATION	152,100	41.94	38.71	38.71	+8.33%
	MANCHESTER MAINTENANCE STATION	152,100	37.85	34.93	34.93	+8.33%
	ORLEANS MAINTENANCE STATION	0	0.00	4.92	0.56	-100.00%
	PINE CREEK SAND STORAGE					
	RATTLESNAKE CK S/S					
	REDWOOD BYPAS S/S					
	UKIAH MAINTENANCE STATION	346,000	9.27	16.14	11.46	-19.14%
	WILLITS MAINTENANCE STATION	305,184	72.56	25.96	46.95	+54.55%
	WILLOW CREEK MAINTENANCE STATION	1,062,010	84.26	78.98	55.89	+50.75%
	Maintenance Station Total	4,490,691	31.70	24.33	32.55	-2.62%
Lab - Field						
	LOWER LAKE CONSTRUCTION LABORATORY	59,092	59.09	13.36	19.52	+202.68%
	Lab - Field Total	59,092	59.09	13.36	19.52	+202.68%
Lab - District						
	01 MATERIALS LAB	35,156	4.89	5.93	4.89	0.00%
	Lab - District Total	35,156	4.89	5.93	4.89	0.00%
Equipment Shop						
	01 UKIAH EQUIPMENT SUB-SHOP	118,800	4.16	4.31	4.93	-15.57%
	EQUIPMENT SHOP 01	103,972	3.36	5.94	8.59	-60.96%
	Equipment Shop Total	222,772	3.74	5.16	6.84	-45.26%
	01 - Eureka Total	5,079,235	17.41	14.96	19.57	-11.03%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
02 - Redding					
Office					
02 DISTRICT OFFICE	1,148,928	24.01	43.27	57.04	-57.91%
Office Total	1,148,928	24.01	43.27	57.04	-57.91%
Maintenance Station					
ADIN MAINTENANCE STATION	139,425	16.59	15.31	15.31	+8.33%
ALTURAS MAINTENANCE STATION	87,516	3.56	8.59	6.43	-44.55%
BARTLE S/S					
BECKWORTH MAINTENANCE STATION	139,425	15.95	14.72	14.72	+8.33%
BOGARD SANDHOUSE					
BUCKHORN SANDHOUSE					
BURNEY JUNCTION SAND SALT STORAGE					
BURNEY MAINTENANCE STATION	1,615,456	199.14	171.03	209.88	-5.12%
CANBY SAND HOUSE					
CANYON DAM SAND/SALT STORAGE					
CASTELLA SANDHOUSE					
CEDAR PASS SANDHOUSE					
CHESTER MAINTENANCE STATION	584,900	86.59	222.19	37.20	+132.76%
DEER CREEK S/S					
DORRIS SANDHOUSE					
FREDONYER SANDHOUSE					
GIBSON MAINTENANCE STATION	88,725	9.86	9.10	9.10	+8.33%
GRASS LAKE MAINTENANCE STATION	126,750	11.98	11.06	11.06	+8.33%
GRASSHOPPER SANDHOUSE					
GREENVILLE WYE SANDHOUSE					
HALLELUJAH JCT SANDHOUSE					
HAT CREEK MAINTENANCE STATION	326,876	24.51	10.66	80.14	-69.42%
HATCHET MTN SANDHOUSE					
HAYFORK MAINTENANCE STATION	99,783	3.72	4.13	4.71	-20.97%
HILT SANDHOUSE					
JUNCTION 44/36 SAND STORAGE					
LEE'S SUMMIT SANDHOUSE					
MCCLOUD SAND HOUSE					
MINERAL MAINTENANCE STATION	139,425	9.34	8.62	8.62	+8.33%
MT. SHASTA MAINTENANCE STATION	114,075	5.90	5.44	5.44	+8.33%
NEWELL MAINTENANCE STATION	3,740	0.37	0.22	0.07	+400.00%
PLATINA MAINTENANCE STATION	88,725	12.74	11.76	11.76	+8.33%
PULGA MAINTENANCE STATION	88,725	25.35	23.40	23.40	+8.33%
QUINCY MAINTENANCE STATION	213,900	10.72	43.10	10.75	-0.33%
RED BLUFF MAINTENANCE STATION	681,727	86.29	421.82	266.27	-67.59%
REDDING MAINTENANCE STATION	1,775,752	102.76	112.20	94.80	+8.40%
SALT CREEK SAND STORAGE					
SEMINARY LANDSCAPE MAINTENANCE	76,050	69.26	63.93	63.93	+8.33%
SUSANVILLE MAINTENANCE STATION	447,588	14.16	2.01	23.08	-38.64%
TERMO SAND HOUSE					
TRINITY CENTER MAINTENANCE STATION	101,400	5.79	5.35	5.35	+8.33%
WEAVERVILLE MAINTENANCE STATION	213,928	7.63	23.23	23.37	-67.35%
WEED S/S					
WILLOW CREEK SAND STORAGE					
YREKA MAINTENANCE STATION	282,900	35.78	73.36	92.83	-61.45%
Maintenance Station Total	7,436,791	24.59	39.01	34.39	-28.49%
Lab - District					
02 MATERIALS LAB		0.00	0.00	0.00	
Lab - District Total		0.00	0.00	0.00	
Equipment Shop					

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
02 REDDING EQUIPMENT SHOP			0.00	0.00	0.00	
02 SUSANVILLE EQUIPMENT SUB-SHOP			0.00	0.00	0.00	
Equipment Shop Total			0.00	0.00	0.00	
02 - Redding Total		8,585,719	21.78	35.18	33.31	-34.61%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
03 - Marysville						
TMC						
	D3 TMC COMMUNICATIONS	2,581,378	75.48	286.84	154.30	-51.08%
TMC Total		2,581,378	75.48	286.84	154.30	-51.08%
Office						
03 DISTRICT OFFICE (OLD COMPLEX, NOW DEMO'D, HOLD FOR HISTORY.)						
	DISTRICT 03 OFFICE - DMV ANNEX	92,752	14.30	12.22	21.91	-34.74%
Office Total		92,752	14.30	12.22	21.91	-34.74%
Maintenance Station						
	12TH AVE HWY MAINT STORAGE SATELLITE					
	12TH STREET MAINTENANCE STATION	617,100	382.34	759.59	378.17	+1.10%
	2ND ST SATELLITE					
	3RD ST SATELLITE	25,350	140.83	130.00	130.00	+8.33%
	47TH AVE MAINT					
	AUBURN MAINTENANCE STATION	246,092	32.95	41.46	86.23	-61.79%
	CAMINO S/S					
	CASTLE PEAK S/S					
	CHICO MAINTENANCE STATION	1,169,124	75.60	107.81	89.14	-15.19%
	CISCO S/S					
	COLUSA MAINTENANCE STATION	208,692	21.37	18.54	7.43	+187.63%
	DOWNIEVILLE MAINTENANCE STATION	164,775	15.13	13.96	13.96	+8.33%
	EL DORADO S/S					
	ELK GROVE MAINTENANCE STATION	267,784	35.86	66.32	39.47	-9.14%
	EMPIRE ST SATELLITE					
	ESPARTO MAINTENANCE STATION	86,768	20.01	18.29	18.46	+8.41%
	FLORISTON S/S					
	GOLD RUN S/S					
	KINGVALE MAINTENANCE STATION	329,550	4.00	3.69	3.69	+8.33%
	KYBURZ MAINTENANCE STATION	177,450	13.81	12.74	12.74	+8.33%
	MARYSVILLE MAINTENANCE STATION	5,236	0.60	0.43	1.02	-41.67%
	NEVADA CITY (SUTTER/SIERRA REGION) MAINTENANCE	1,739,100	77.71	32.62	32.49	+139.20%
	NORTHGATE MAINTENANCE STATION	253,500	33.64	31.06	31.06	+8.33%
	OLD GOLD LAKE RD S/S					
	PLACERVILLE MAINTENANCE STATION	286,035	28.50	42.32	42.99	-33.69%
	RICHARDS BLVD SATELLITE					
	RIVERTON S/S					
	ROSEVILLE MAINTENANCE STATION	116,688	27.65	20.03	29.78	-7.14%
	SIERRAVILLE MAINTENANCE STATION	12	0.00	0.00	0.00	
	SOUTH LAKE TAHOE MAINTENANCE STATION	2,505,800	152.89	70.97	43.81	+248.96%
	SPECIAL CREWS MAINTENANCE STATION	237,266	6.67	4.59	3.71	+79.97%
	SUNRISE MAINTENANCE STATION		0.00	0.00	0.00	
	TAHOE CITY MAINTENANCE STATION	437,230	75.59	70.97	6.43	+1075.03%
	TRUCKEE MAINTENANCE STATION	1,163,000	29.17	7.10	57.58	-49.34%
	WEST SACRAMENTO MAINTENANCE STATION	321,640	29.94	32.17	35.30	-15.19%
	WHITMORE MAINTENANCE STATION	395,460	6.96	6.42	6.42	+8.33%
	WILLOWS MAINTENANCE STATION	151,096	44.76	39.66	42.76	+4.66%
	WOODLAND MAINTENANCE STATION	146,608	6.34	9.52	13.00	-51.22%
	YUBA ST MAINTENANCE STATION				121.07	-100.00%
Maintenance Station Total		11,051,356	26.01	21.57	23.18	+12.23%
Lab - Field						
	ECHO SUMMIT CONSTRUCTION LABORATORY	650	1.30	1.20	1.20	+8.33%
Lab - Field Total		650	1.30	1.20	1.20	+8.33%
Equipment Shop						
	03 MEYERS EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
	03 TRUCKEE EQUIPMENT SUB-SHOP		0.00	0.00	0.00	

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
EQUIPMENT SHOP 03		415,888	8.48	4.24	13.82	-38.63%
Equipment Shop Total		415,888	6.44	3.22	10.49	-38.63%
03 - Marysville Total		14,142,024	26.65	36.30	30.02	-11.22%

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
04 - Oakland					
Other - Toll Plaza					
ANTIOCH MAINTENANCE STATION	384,472	147.87	199.37	519.57	-71.54%
Other - Toll Plaza Total	384,472	147.87	199.37	519.57	-71.54%
Office					
04 DISTRICT OFFICE	8,032,772	15.30	14.95	12.19	+25.47%
Office Total	8,032,772	15.30	14.95	12.19	+25.47%
Maintenance Station					
ALCOSTA LANDSCAPE STATION	301,444	211.69	605.12	1770.72	-88.05%
ANTIOCH BRIDGE TOLL PLAZA	86,020	12.88	14.90	11.65	+10.58%
ANTIOCH SUB YARD SATELLITE		0.00	0.00	0.00	
BENICIA MAINTENANCE STATION	88,725				
BODEGA BAY MAINTENANCE STATION	1,571	0.77	27.10	195.13	-99.60%
CALDECOTT TUNNEL	0	0.00	5.55		
CALISTOGA MAINTENANCE STATION	11,220	3.31	19.43	16.34	-79.73%
CARQUINEZ TOLL PLAZA MAINT	1,495,252	209.13	272.31	154.31	+35.53%
CASTRO VALLEY MAINT				35.08	-100.00%
CUPERTINO MAINTENANCE STATION	328,372	37.05	45.24	33.51	+10.58%
DELTA REGION MAINTENANCE STATION	195,976	78.55	89.04	120.52	-34.83%
DIXON MAINTENANCE STATION	50,700	17.09	15.78	15.78	+8.33%
EAST BAY REGION MAINTENANCE STATION	1,411,476	82.07	80.42	62.98	+30.32%
FAIRFIELD MAINTENANCE STATION	1,214,004	107.61	68.95	31.43	+242.41%
FORT ROSS MAINTENANCE STATION	50,700	6.43	5.93	5.93	+8.33%
FREMONT MAINTENANCE STATION	1,257,388	443.99	75.28	50.98	+770.98%
GEYSERVILLE MAINTENANCE STATION	92,004	26.96	20.23	35.14	-23.29%
GILROY MAINTENANCE STATION	88,725	17.48	16.13	16.13	+8.33%
HALF MOON BAY MAINT	38,148	14.15	7.77	4.99	+183.33%
HERCULES MAINTENANCE STATION	681,428	103.88	151.54	234.21	-55.65%
KEMPTON MAINT					
LIVERMORE MAINTENANCE STATION	215,424	59.25	21.81	58.84	+0.70%
LOS GATOS SATELLITE					
MANZANITA MAINTENANCE STATION	774,180	143.42	97.14	5.27	+2623.68%
MIDDLEFIELD ROAD MAINTENANCE STATION	525,844	438.20	192.61	118.43	+270.00%
MILLBRAE MAINT	147,356	111.63	107.67	3.40	+3183.33%
MILPITAS LANDSCAPE MAINTENANCE	123,420	97.95	286.73	88.45	+10.74%
NAPA MAINTENANCE STATION	255,000	14.98	34.54	31.36	-52.25%
NORTH BAY REGION	52,360	3.76	6.50	5.37	-30.00%
POINT REYES MAINTENANCE STATION	152,100	52.30	48.28	48.28	+8.33%
REDWOOD CITY MAINT	45,628	6.32	6.84	10.67	-40.78%
RICHMOND CONSTRUCTION LABORATORY	0	0.00	0.00	0.60	-100.00%
RICHMOND-SAN RAFAEL TOLL PLAZA	601,392	72.68	55.51	86.97	-16.42%
RIO VISTA MAINTENANCE STATION	199,716	35.71	44.54	26.75	+33.50%
SAN FRANCISCO MAINT	409,156	36.61	30.39	29.31	+24.89%
SAN MATEO PAINT	854,216	97.97	80.90	16.99	+476.77%
SAN RAFAEL LANDS		0.00	0.00	0.00	
SAN RAFAEL PAINT SHOP	177,276	73.13	63.57	50.30	+45.40%
SANTA CRUZ MAINTENANCE STATION	420,376	27.26	23.14	22.46	+21.38%
SANTA ROSA LANDSCAPE STATION	29,172	8.54	25.18	35.47	-75.93%
SANTEE MAINTENANCE STATION	796,620	58.23	39.81	37.24	+56.39%
SHELLVILLE MAINTENANCE STATION		0.00	0.00	0.00	
SEBASTOPOL MAINTENANCE STATION	63,375	26.41	24.38	24.38	+8.33%
SEIAD VALLEY MAINTENANCE STATION	101,400	12.90	11.91	11.91	+8.33%
SESPE GORGE S/S					
SKYLONDA STORAGE					
SOUTH BAY REGION	736,032	28.58	33.37	28.69	-0.40%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
SOUTH OAKLAND MAINTENANCE STATION				103.83	-100.00%
SOUTH PETALUMA MAINTENANCE STATION	22,440	2.77	6.00	5.82	-52.38%
SOUTH SAN JOSE MAINT	105,468	4.02	4.22	3.05	+31.78%
SPECIALTY REGION HESPERIAN	908,072	30.48	46.94	2.69	+1034.58%
SPECIALTY REGION MAINT	73,304	4.17	45.57	97.13	-95.71%
STERLING SUB STATION					
TELEGRAPH MAINT	103,224	70.80	47.20	21.55	+228.57%
TOLL BRIDGE REGION MAINT	4,382,532	56.94	52.42	39.73	+43.32%
TRI-BRIDGE YARD	203,456	6.42	47.61	43.36	-85.19%
VALLEJO MAINTENANCE STATION	44,880	29.92	24.93	107.71	-72.22%
WALNUT CREEK WEST MAINTENANCE STATION	195,976	32.93	37.33	19.61	+67.95%
WEST BAY PAINT	83,776	5.09	5.99	0.00	
WEST BAY REGION MAINTENANCE STATION	451,044	31.95	22.41	20.77	+53.83%
WESTBOROUGH MAINT		0.00	0.00	0.00	
WOODSIDE MAINTENANCE STATION	46,376	5.35	2.41	1.72	+210.00%
YERBA BUENA ISLAND	153,340	168.14	29.18	31.35	+436.34%
Maintenance Station Total	20,847,084	40.94	43.57	43.17	-5.15%
Lab - Field					
ORINDA CONSTRUCTION LABORATORY		0.00	0.00	14.34	-100.00%
Lab - Field Total		0.00	0.00	14.34	-100.00%
Lab - District					
04 MATERIALS LAB	105,468	13.88	19.19	79.43	-82.53%
Lab - District Total	105,468	13.88	19.19	79.43	-82.53%
Equipment Shop					
04 FAIRFIELD EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
04 OAKLAND EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
04 SAN FRANCISCO EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
04 SAN JOSE EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
EQUIPMENT SHOP 04		0.00	3.13	4.17	-100.00%
Equipment Shop Total		0.00	1.43	1.91	-100.00%
04 - Oakland Total	29,369,796	25.52	26.81	27.01	-5.51%

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
05 - San Luis Obispo						
Office						
	05 DISTRICT OFFICE	1,137,708	27.28	34.23	31.21	-12.59%
Office Total		1,137,708	27.28	34.23	31.21	-12.59%
Maintenance Station						
	BIG SUR MAINT	50,700	3.83	3.54	3.54	+8.33%
	BUELLTON MAINTENANCE STATION	182,512	35.72	31.77	24.89	+43.53%
	CAMBRIA MAINTENANCE STATION	50,700	5.94	5.48	5.48	+8.33%
	CUYAMA MAINTENANCE STATION	25,350	3.57	3.30	3.30	+8.33%
	EMELINE LANDSCAPE SATELLITE					
	HOLLISTER MAINTENANCE STATION	212,432	66.32	10.35	37.13	+78.62%
	KING CITY MAINTENANCE STATION	152,100	36.92	34.08	34.08	+8.33%
	MONTEREY MAINTENANCE STATION	237,689	31.23	16.41	4.85	+544.14%
	SALINAS MAINTENANCE STATION	384,472	22.31	35.12	37.03	-39.74%
	SAN LUIS OBISPO MAINT	59,840	3.86	3.18	72.25	-94.66%
	SANTA BARBARA MAINTENANCE STATION	760,716	29.96	32.11	25.80	+16.10%
	SANTA MARIA MAINTENANCE STATION	436,832	27.25	39.24	49.46	-44.91%
	SHAVER LAKE MAINTENANCE STATION	304,200	37.18	34.32	34.32	+8.33%
	TEMPLETON MAINTENANCE STATION	449,548	63.80	50.43	0.00	
	WILLOW SPRINGS MAINT	501,930	35.72	32.97	32.97	+8.33%
Maintenance Station Total		3,809,021	25.00	24.78	29.48	-15.19%
Lab - Field						
	CUESTA GRADE CONSTRUCTION LABORATORY	11,262	28.16	26.00	26.00	+8.29%
Lab - Field Total		11,262	28.16	26.00	26.00	+8.29%
Equipment Shop						
	EQUIPMENT SHOP 05 (2501)	80,784	3.18	3.50	3.76	-15.63%
Equipment Shop Total		80,784	3.18	3.50	3.76	-15.63%
05 - San Luis Obispo Total		5,038,775	22.92	24.12	26.83	-14.58%

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
06 - Fresno					
Office					
06 DISTRICT OFFICE	2,318,800	29.73	60.62	20.94	+41.94%
Office Total	2,318,800	29.73	60.62	20.94	+41.94%
Maintenance Station					
BAKERSFIELD MAINTENANCE STATION	3,499,892	291.66	39.64	190.43	+53.16%
BIG CEDAR SPRINGS MAINT	25,350	6.89	6.36	6.36	+8.33%
BODFISH MAINTENANCE STATION	22,440	3.00	5.29	4.49	-33.33%
COALINGA YARD MAINTENANCE STATION	1,408,970	654.73	857.08	70.87	+823.81%
COARSEGOLD MAINTENANCE STATION	139,425	35.86	33.10	33.10	+8.33%
DELANO MAINTENANCE STATION	566,300	65.12	55.38	51.82	+25.68%
FRESNO MAINTENANCE STATION	23,188	0.44	0.74	0.98	-55.71%
GLENNVILLE MAINTENANCE STATION	25,350	3.09	2.85	2.85	+8.33%
HAPPY GAP S/S					
HUNTINGTON LAKE SATELLITE MAINT	27,300	4.11	3.52	3.52	+16.67%
KETTLEMAN CITY MAINTENANCE STATION	62,084	13.21	3.82	11.46	+15.28%
LEMON COVE MAINTENANCE STATION	152,100	52.43	48.40	48.40	+8.33%
LEMOORE YARD MAINTENANCE STATION	623,084	92.38	13.97	49.35	+87.19%
LOST HILLS MAINTENANCE STATION (SATELLITE)	25,350	23.21	21.43	21.43	+8.33%
MADERA MAINTENANCE STATION	237,191	31.41	33.29	15.89	+97.69%
MCKITTRICK MAINTENANCE STATION	109,208	52.30	9.67	233.21	-77.57%
MENDOTA MAINTENANCE STATION	21,860	8.17	5.83	32.35	-74.75%
PIERPOINT SPRINGS/CAMP NELSON MAINTENANCE	25,350	11.40	10.52	10.52	+8.33%
PINEHURST MAINTENANCE STATION	114,075	18.62	17.18	17.18	+8.33%
PORTERVILLE MAINTENANCE STATION	50,116	10.62	12.52	19.97	-46.83%
SHERWIN GRAD SAND/SALT STORAGE					
TAFT MAINTENANCE STATION	30,870	2.22	3.83	4.13	-46.27%
TULARE MAINT	216,000	38.59	205.61	29.47	+30.91%
VISALIA MAINT	443,625	35.21	32.50	32.50	+8.33%
WASCO MAINTENANCE STATION	256,265	97.66	15.79	15.17	+543.98%
WEST AVENUE MAINTENANCE STATION	479,468	17.40	24.44	64.81	-73.15%
Maintenance Station Total	8,584,861	41.04	29.45	33.93	+20.96%
Lab - District					
06 MATERIALS LAB		0.00	0.00	0.00	
Lab - District Total		0.00	0.00	0.00	
Equipment Shop					
BAKERSFIELD EQ SUB-SHOP 2 (36-06-02)		0.00	0.00	0.00	
EQUIPMENT SHOP 06 (2601)	5,984	0.18	21.84	29.49	-99.39%
Equipment Shop Total	5,984	0.08	9.97	13.46	-99.39%
06 - Fresno Total	10,909,645	29.85	31.79	26.58	+12.30%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
07 - Los Angeles					
TMC					
LOS ANGELES REGIONAL TMC	1,682,252	20.44	17.11	13.88	+47.28%
TMC Total	1,682,252	20.44	17.11	13.88	+47.28%
Other - RE Office					
WESTWOOD CONSTRUCTION OFFICE	56,331	39.36	36.34	36.34	+8.33%
Other - RE Office Total	56,331	39.36	36.34	36.34	+8.33%
Office					
07 DISTRICT OFFICE	17,191,284	24.00	17.82	14.71	+63.21%
Office Total	17,191,284	24.00	17.82	14.71	+63.21%
Maintenance Station					
ALAMEDA MAINTENANCE STATION	322,388	36.94	16.97	25.71	+43.67%
ALTADENA MAINTENANCE STATION	804,848	114.15	80.31	94.52	+20.76%
APPLE LANDSCAPE	2,270,928	2628.39	2392.91	3752.12	-29.95%
ARTESIA MAINTENANCE STATION	82,280	47.95	37.92	43.15	+11.11%
BELLFLOWER MAINTENANCE STATION	83,028	16.09	14.35	18.70	-13.95%
BIG SYCAMORE MAINTENANCE STATION	152,100	34.27	31.64	31.64	+8.33%
BUENA VISTA MAINTENANCE STATION	34,550	29.38	64.41	1597.13	-98.16%
BURBANK ELECTRICAL STATION	0	0.00	0.00	3.18	-100.00%
CEDAR SPRINGS S/S					
CENTRAL BANDINI MAINTENANCE STATION	611,864	10.77	8.45	2.71	+297.09%
CENTURY/SOUTH REGION MAINT	0	0.00	13.43	19.09	-100.00%
CERRITOS MAINTENANCE STATION	100,232	69.80	138.56	101.57	-31.28%
CHILAO MAINT	152,100	8.84	8.16	8.16	+8.33%
CULVER CITY MAINTENANCE STATION	85,272	98.69	202.58	173.15	-43.00%
DIAMOND BAR MAINTENANCE STATION	178,772	34.92	34.33	67.79	-48.49%
DORAN MAINTENANCE STATION	85,272	98.69	53.97	200.85	-50.86%
EAST LOS ANGELES MAINT	217,668	36.04	32.57	34.68	+3.93%
FILLMORE MAINTENANCE STATION	691,900	177.05	175.13	168.24	+5.23%
FLORENCE AVENUE MAINTENANCE STATION	228,888	144.14	153.09	95.15	+51.49%
FOOTHILL MAINTENANCE STATION	375,496	26.26	21.71	15.69	+67.33%
FRAZIER MOUNTAIN PARKSAND/SALT STORAGE					
HUMPHREY MAINT	133,892	154.97	280.50	1675.21	-90.75%
LANCASTER MAINTENANCE STATION	142,868	39.69	36.15	82.49	-51.89%
LAS FLORES MAINTENANCE STATION	273,020	54.75	23.85	94.04	-41.79%
LEBEC MAINTENANCE STATION 1	335,478	37.28	22.12	65.04	-42.69%
LIEBRE GULCH S/S					
LONG BEACH MAINTENANCE STATION	883,388	82.36	66.53	36.89	+123.25%
MAINTENANCE EQUIP TRAINING CTR	121,924	42.33	19.74	7.79	+443.33%
METRO ELECTRICAL	20,944	2.62	1.59	14.68	-82.17%
MIDDLEBURY MAINT	122,672	141.98	12.99	88.31	+60.78%
MISSION HILLS MAINT	709,104	131.71	4.86	92.11	+42.99%
MOORPARK MAINT	253,500	34.30	31.66	31.66	+8.33%
MT WILSON S/S					
NEWHALL MAINTENANCE STATION/NORTH REGION	1,002	0.12	0.57	3.23	-96.35%
NORTH HOLLYWOOD MAINTENANCE STATION	342,584	60.61	27.92	136.05	-55.45%
OJAI MAINTENANCE STATION	148,104	36.39	28.85	27.38	+32.89%
PACIFIC PLACE MAINTENANCE STATION	548,284	496.63	868.60	1993.99	-75.09%
POMONA MAINT	1,254,396	572.26	686.92	403.01	+42.00%
QUAIL LAKE S/S					
ROSEMEAD MAINTENANCE STATION	0	0.00	0.00	0.00	
SAN FERNANDO MAINTENANCE STATION	560,252	70.79	39.79	70.70	+0.13%
SAN GABRIEL ELECTRICAL MAINTENANCE STATION	1,035,980	1204.63	1456.86	475.76	+153.20%
SANTA PAULA MAINT	73,304	73.38	115.31	63.64	+15.29%
SHANDON MAINTENANCE STATION	128,656	50.26	86.49	90.29	-44.34%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
SILVERLAKE MAINTENANCE STATION	1,700,204	68.51	48.80	52.54	+30.41%
TARZANA MAINTENANCE STATION	436,832	57.25	12.25		
TEJON MTN S/S					
TERMINAL ISLAND MAINT	73,304	16.80	7.37	8.74	+92.16%
TORRANCE MAINTENANCE STATION	47,124	7.67	5.48		
VALENCIA & NORTH REGION MAINT	661,980	31.78	33.36	14.15	+124.62%
VENTURA MAINTENANCE STATION	684,420	126.37	88.39	92.95	+35.96%
VENTURA REGION OFFICE	145,112	7.36	15.45	11.01	-33.10%
VICTORVILLE MAINTENANCE STATION	85,272	12.17	4.06	713.50	-98.29%
VINCENT S/S					
VINCENT THOMAS BRIDGE MAINTENANCE STATION (PAINT)	136,884	18.35	11.93	5.92	+210.17%
WARD ROAD S/S					
WEST REGION MAINTENANCE STATION	733,040	46.75	57.96	44.36	+5.38%
WESTDALE MAINT	330,616	32.67	7.02	36.66	-10.89%
WHITTAKER SUMMIT S/S					
WHITTIER AND EAST REGION MAINTENANCE STATION	728,552	47.35	59.98	28.63	+65.37%
WILLOW ST. ELECTRICAL CREW	123,420	51.08	16.72	19.50	+161.90%
Maintenance Station Total	19,453,698	48.97	43.63	71.40	-31.41%
Lab - District					
07 DISTRICT LAB				2.36	-100.00%
LOS ANGELES LABORATORY/OFFICE					
Lab - District Total				2.36	-100.00%
Equipment Shop					
07 COMMERCE EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
07 LOS ANGELES EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
EQUIPMENT SHOP 07 (2701)	190,740	2.70	8.04	2.85	-5.20%
Equipment Shop Total	190,740	2.00	5.97	2.11	-5.20%
07 - Los Angeles Total	38,574,305	29.85	24.85	30.13	-0.94%

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
08 - San Bernardino						
TMC						
	08 INLAND EMPIRE TMC (SAN BERNARDINO)	5,665,352	131.75	111.66		
TMC Total		5,665,352	131.75	111.66		
Other						
	08 IND ASSURANCE BLDG		0.00	0.00	0.00	
Other Total			0.00	0.00	0.00	
Office						
	08 DISTRICT OFFICE (SAN BERNARDINO GOV'T CENTER OFFICE BLDG)	19,189,192	81.41	85.71	74.23	+9.67%
Office Total		19,189,192	81.41	85.71	74.23	+9.67%
Maintenance Station						
	BANNING MAINTENANCE STATION	711,348	82.30	288.19	126.53	-34.95%
	BARSTOW MAINTENANCE STATION	677,688	49.63	30.51	58.23	-14.77%
	BEECHERS CORNER MAINTENANCE STATION	88,725	13.13	12.12	12.12	+8.33%
	BLYTHE MAINTENANCE STATION	161,000	26.98	73.73	68.20	-60.44%
	BURNT MILL MAINTENANCE STATION	88,725	9.11	8.41	8.41	+8.33%
	CAJON MAINTENANCE STATION	253,500	19.29	17.81	17.81	+8.33%
	CAJON PASS S/S					
	CAMP ANGELUS MAINTENANCE STATION	88,725	8.80	8.12	8.12	+8.33%
	CORONA MAINTENANCE STATION	1,525,920	350.30	227.18	246.59	+42.06%
	DAWSON SUMMIT S/S					
	DESERT CENTER MAINTENANCE STATION	288,990	22.95	21.18	21.18	+8.33%
	DRY CREEK MAINT	22,986	2.71	4.33	9.07	-70.14%
	ELSINORE MAINTENANCE STATION	316,404	84.69	64.67	39.24	+115.82%
	ESSEX MAINTENANCE STATION	288,990	26.34	24.31	24.31	+8.33%
	FAWNSKIN MAINTENANCE STATION	109,208	7.38	7.43	8.64	-14.62%
	HEMET MAINTENANCE STATION	216,920	39.15	24.30	21.19	+84.71%
	INDIO MAINTENANCE STATION	24,684	2.40	9.69	0.36	+560.00%
	KEEN CAMP	47,775	4.12	10.60	7.07	-41.67%
	LAKEVIEW POINT SATELLITE					
	MAGANA ORTEGA	2,462,416	67.70	14.46	62.58	+8.18%
	MOUNTAIN PASS	40,950	2.82	7.24	4.83	-41.67%
	NEEDLES MAINTENANCE STATION	508,820	62.12	47.80	103.48	-39.97%
	ONTARIO MAINTENANCE STATION	510,136	61.94	79.47	103.35	-40.07%
	PARADISE VALLEY MAINTENANCE STATION	70,312	18.40	5.48	33.66	-45.35%
	RIVERSIDE MAINTENANCE STATION	431,596	28.87	8.00	43.12	-33.06%
	SAN BERNARDINO MAINTENANCE STATION	1,095,072	44.77	47.49	138.95	-67.78%
	VIDAL MAINT	40,950	10.56	27.16	18.11	-41.67%
Maintenance Station Total		10,071,840	38.04	34.67	49.95	-23.84%
Lab - District						
	08 OLD MATERIALS LAB	216,920	36.95	3.95	22.68	+62.92%
	08 SOUTHERN REGION LAB	2,018,852	30.13	74.57		
Lab - District Total		2,235,772	30.68	68.88	22.68	+35.27%
Equipment Shop						
	08 BARSTOW EQUIPMENT SUB-SHOP		0.00	0.00	0.00	
	EQUIPMENT SHOP 08 (2801)	450,296	13.05	14.05	12.79	+2.03%
Equipment Shop Total		450,296	10.50	11.30	10.29	+2.03%
08 - San Bernardino Total		37,612,452	55.91	58.99	55.62	+0.53%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
09 - Bishop Office						
	09 DISTRICT OFFICE	732,331	29.02	26.79	26.79	+8.33%
Office Total		732,331	29.02	26.79	26.79	+8.33%
Maintenance Station						
	BISHOP MAINTENANCE STATION	316,875	7.23	6.68	6.68	+8.33%
	BRIDGEPORT MAINTENANCE STATION	113,696	10.18	11.52	11.52	-11.66%
	CONWAY SUMMIT SAND STORAGE					
	CRESTVIEW MAINTENANCE STATION	50,700	6.72	6.20	6.20	+8.33%
	DEATH VALLEY MAINTENANCE STATION	18,700	1.71	828.25	4.60	-62.69%
	INDEPENDENCE MAINTENANCE STATION (OPEN)	142,868	27.35	30.64	94.36	-71.02%
	INYOKERN MAINTENANCE STATION	798,116	262.54	29.28	638.01	-58.85%
	LEE VINING MAINTENANCE STATION	2,992	0.31	9.59	0.08	+300.00%
	LONE PINE S/S					
	MCGEE MAINTENANCE STATION	139,425	41.94	38.72	38.72	+8.33%
	MINARET SATELLITE	25,350	4.14	3.82	3.82	+8.33%
	MOJAVE MAINTENANCE STATION	294,000	36.70	24.59	16.98	+116.18%
	SHINGLETOWN SAND HOUSE					
	SHOSHONE MAINTENANCE STATION	139,425	26.64	24.59	24.59	+8.33%
	SONORA JUNCTION MAINTENANCE STATION	126,750	28.17	26.00	26.00	+8.33%
	TEHACHAPI MAINTENANCE STATION	116,000	24.74	32.00	14.93	+65.71%
	TEHACHAPI SAND STORAGE					
Maintenance Station Total		2,284,897	18.55	85.95	28.86	-35.73%
Equipment Shop						
	09 BISHOP EQUIPMENT SHOP	190,125	7.98	7.36		
Equipment Shop Total		190,125	7.98	7.36		
09 - Bishop Total		3,207,353	18.62	66.41	28.51	-34.68%

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
10 - Stockton						
Office						
	10 DISTRICT OFFICE	3,047,352	47.19	78.18	80.63	-41.47%
	Office Total	3,047,352	47.19	78.18	80.63	-41.47%
Maintenance Station						
	ALTAVILLE COMMAND TRAILER		0.00	0.00	0.00	
	ALTAVILLE MAINTENANCE STATION	379,236	23.39	35.88	37.64	-37.87%
	ALTAVILLE OFFICE BUILDING		0.00	0.00	0.00	
	CABBAGE PATCH MAINTENANCE STATION	119,145	6.70	6.19	6.19	+8.33%
	CAMP CONNELL MAINTENANCE STATION	152,966	9.03	10.62	16.92	-46.68%
	CAPLES LAKE MAINT	88,725	3.69	3.41	3.41	+8.33%
	COULTERVILLE MAINTENANCE STATION	8,000	1.75	1.75	1.53	+14.29%
	GROVELAND MAINTENANCE STATION	103,290	11.06	17.96	8.10	+36.58%
	IONE MAINTENANCE STATION	372,504	64.04	39.22	31.76	+101.62%
	LODI MAINTENANCE STATION	317,997	72.42	31.53	77.51	-6.56%
	LONG BARN MAINTENANCE STATION	88,725	10.03	9.26	9.26	+8.33%
	LOS BANOS MAINTENANCE STATION	227,392	65.34	36.33	134.55	-51.44%
	MERCED MAINTENANCE STATION	954,448	51.59	68.25	40.43	+27.60%
	MIDPINES MAINTENANCE STATION	88,725	7.96	7.35	7.35	+8.33%
	MILT'S PLACE S/S					
	MODESTO MAINTENANCE STATION	555,016	50.50	75.89	79.77	-36.69%
	MUD SPRINGS S/S					
	PATTERSON MAINTENANCE STATION	42,636	8.54	8.69	0.60	+1325.00%
	PEDDLER HILL MAINT	139,425	7.35	6.78	6.78	+8.33%
	PICKETS S/S					
	PINE GROVE MAINTENANCE STATION	188,272	21.63	11.00	13.21	+63.76%
	PINECREST SAND STORAGE		0.00	0.00	0.00	
	SONORA MAINTENANCE STATION	88,725	18.79	17.35	17.35	+8.33%
	SOULSBYVILLE S/S					
	STOCKTON LANDSCAPE	88,725	73.94	68.25	68.25	+8.33%
	STOCKTON MAINTENANCE STATION	27,676	0.76	1.06	1.39	-45.59%
	STOCKTON MAINTENANCE STATION 1690		0.00	0.00	0.00	
	TIP TOP SAND STORAGE					
	TRACY MAINTENANCE STATION	139,425	29.77	27.48	27.48	+8.33%
	WEST POINT MAINTENANCE STATION	120,301	39.13	25.04	43.57	-10.18%
	WOODFORDS MAINTENANCE STATION	101,400	9.01	8.32	8.32	+8.33%
	Maintenance Station Total	4,392,754	17.45	18.48	18.95	-7.93%
Lab - District						
	10 LAB		0.00	0.00	0.00	
	Lab - District Total		0.00	0.00	0.00	
Equipment Shop						
	10 STOCKTON EQUIPMENT SHOP		0.00	0.00	0.00	
	Equipment Shop Total		0.00	0.00	0.00	
	10 - Stockton Total	7,440,106	21.55	28.10	28.90	-25.43%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
11 - San Diego						
TMC						
	11 SAN DIEGO TMC	873,664	14.50	13.67	10.60	+36.77%
	TMC Total	873,664	14.50	13.67	10.60	+36.77%
Other						
	11 ARCHAEOLOGY BUILDING	0	0.00	0.00	14.03	-100.00%
	Other Total	0	0.00	0.00	14.03	-100.00%
Office						
	11 OFFICE (OLD)				1.61	-100.00%
	Office Total				1.61	-100.00%
Maintenance Station						
	BOULEVARD MAINTENANCE STATION	190,125	22.88	21.12	21.12	+8.33%
	BRAWLEY MAINTENANCE STATION	253,500	28.85	26.63	26.63	+8.33%
	CAMINO DEL RIO MAINTENANCE STATION	384,472	314.63	359.92	111.40	+182.42%
	CARLSBAD MAINTENANCE STATION	204,952	23.47	18.33	18.33	+28.04%
	CHOLLAS MAINT	22,440	8.70	4.93	8.12	+7.14%
	CHULA VISTA MAINTENANCE STATION	370,260	30.41	27.89	21.87	+39.04%
	DESCANSO MAINTENANCE STATION	190,125	11.99	11.06	11.06	+8.33%
	EL CENTRO MAINTENANCE STATION	195,000	14.09	8.17	12.79	+10.17%
	ESCONDIDO MAINTENANCE STATION	197,472	19.90	27.96	186.47	-89.33%
	IMPERIAL AVENUE MAINTENANCE STATION	165,308	71.87	125.53	80.98	-11.24%
	KEARNEY MESA MAINTAINANCE STATION		0.00	0.00	0.00	
	LAKE HENSHAW, SANTA YSABEL, MAINTENANCE	190,125	41.13	37.97	37.97	+8.33%
	MIDWAY WELLS MAINTENANCE STATION	190,125	38.28	35.33	35.33	+8.33%
	OTAY MAINTENANCE STATION	112,200	42.52	46.77	45.35	-6.25%
	PACIFIC HIGHWAY MAINTENANCE STATION	14,212	10.21	30.63	44.06	-76.83%
	RAMONA MAINT		0.00	0.00	0.00	
	SAN DIEGO/CORONADO MAINTENANCE STATION	82,280	15.05	19.71	12.73	+18.28%
	SARATOGA GAP SAND/SALT STORAGE	6,341				
	SOUTH ELECTRICAL	18,434	4.33	1.25	1.32	+227.48%
	Maintenance Station Total	2,787,371	13.59	13.90	19.48	-30.23%
Lab - District						
	11 KEARNEY MESA LAB				24.31	-100.00%
	Lab - District Total				24.31	-100.00%
Equipment Shop						
	11 EL CENTRO SUB-SHOP	70,000	16.66	21.18	10.00	+66.67%
	11 SAN DIEGO EQUIPMENT SHOP		0.00	0.00	0.00	
	Equipment Shop Total	70,000	1.94	2.47	1.17	+66.67%
	11 - San Diego Total	3,731,035	12.28	12.40	9.26	+32.61%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
12 - Irvine						
TMC						
	D12 TMC	611,864	13.91	11.51	17.29	-19.57%
TMC Total		611,864	13.91	11.51	17.29	-19.57%
Maintenance Station						
	BATAVIA MAINTENANCE STATION	1,523,676	19.15	10.24	13.66	+40.19%
	BOLSA CHICA	217,668	124.17	93.45	1538.24	-91.93%
	BREA MAINTENANCE STATION	514,624	102.92	128.21	697.58	-85.25%
	COSTA MESA	451,044	25.53	39.76	19.82	+28.85%
	HUNTINGTON BEACH FIELD OFFICE	48,620	16.88	11.95	42.33	-60.12%
	MARINE WAY MAINT	44,132	3.15	159.95	73.67	-95.72%
	ORANGE MAINTENANCE STATION	213,928	18.13	13.06	18.00	+0.70%
	SAN JUAN CAPISTRANO MAINTENANCE STATION	372,504	50.92	22.39	22.39	+127.40%
	STANTON MAINTENANCE STATION	273,768	77.75	74.35	34.84	+123.17%
	TOLL ROAD MAINT	14,960	1.15	1.38	6.16	-81.31%
Maintenance Station Total		3,674,924	23.48	33.20	59.78	-60.71%
Equipment Shop						
	12 ORANGE EQUIPMENT SHOP		0.00	0.00	0.00	
Equipment Shop Total			0.00	0.00	0.00	
12 - Irvine Total		4,286,788	20.81	27.68	49.11	-57.62%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Facilities Water Usage Analysis

		2014	2013	2010		
District-Building Type-Building Name		2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
HQ - Sacramento						
Other - Warehouse						
	ROYAL OAKS WAREHOUSE	778,631	7.59	15.74	11.39	-33.36%
Other - Warehouse Total		778,631	7.59	15.74	11.39	-33.36%
Office						
	005 DOT HEADQUARTERS OFFICE BUILDING	4,984,822	10.78	8.27	7.54	+43.04%
Office Total		4,984,822	10.78	8.27	7.54	+43.04%
Lab - HQ						
	TRANSPORTATION LABORATORY	5,172,869	30.22	30.22	30.22	0.00%
Lab - HQ Total		5,172,869	30.22	30.22	30.22	0.00%
Equipment Shop						
	HEADQUARTERS EQUIPMENT SHOP	3,420,133	40.22	8.77	6.06	+563.59%
Equipment Shop Total		3,420,133	40.22	8.77	6.06	+563.59%
HQ - Sacramento Total		14,356,454	17.48	13.83	12.59	+38.82%

Facilities Water Usage Analysis

		2014	2013	2010	
District-Building Type-Building Name	2014 Water Usage (Gallons)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	Water Use Intensity (gal/sqft)	2014 Change from 2010 Baseline
Grand Total	182,333,686	26.95	29.42	27.73	-2.83%

Note: For most buildings with zero consumption, 1) Most sand/salt storage locations do not have water service. 2) Water is reported under only one location for buildings that share a water meter.

Appendix Q – Water Efficiency

Highway Irrigation Water Use

Caltrans Drought Action Plan

2013 (BASE YEAR) – 2014 WATER USE



District	2013 Irrigation Water Use (gallons) BASE YEAR	2014 Irrigation Water Use (gallons)	% Change 2013 to 2014
D1	296,208	225,504	- 24%
D2	151,315,335	23,301,907	- 85%
D3	402,132,901	99,300,000	- 75%
D4	1,706,171,507	444,971,935	- 74%
D5	73,195,264	125,701,362	+ 72%
D6	559,168,607	235,197,820	- 58%
D7	1,308,595,034	1,723,616,349	+ 32%
D8	860,087,996	559,445,777	- 35%
D9	0	0	0%
D10	426,953,883	68,416,894	- 84%
D11	1,078,750,263	1,066,401,362	- 1%
D12	849,751,715	645,064,305	- 24%
Total	7,416,418,714	4,991,643,215	33% Reduction

Serious Work Underway at Caltrans to Combat Drought

With California facing one of the worst droughts in recorded history, Governor Jerry Brown declared a drought State of Emergency in January 2014 and directed state officials to take all necessary actions to prepare for water shortages. He called for all state agencies to reduce their water use by 20 percent, and in April 2015 added an additional mandate ordering all urban water users to reduce their water use by 25 percent. In 2014, Caltrans took it one step further, setting a goal to reduce its water use for irrigation and landscaping by 50 percent and stepping up its ongoing work to curb all water use.

As one of the state's largest departments, responsible for 30,000 acres of landscaping, any conservation efforts by Caltrans are more than "a drop in the bucket." In April, the California Department of General Services reported that state agencies used 23 percent less water in 2014 compared to 2013. For all state government, water use fell from 19.4 billion gallons in 2013 to 14.9 billion gallons in 2014, and Caltrans accounted for more than half of the water conserved by state agencies.

Due to dramatic changes already underway to its irrigation practices and landscaping choices, Caltrans reduced its water consumption by an estimated 32 percent since last year, already exceeding Governor Brown's 25 percent reduction order. In 2014, the department used 5 billion gallons of water for roadside irrigation, down from 7.4 billion in 2013, a decrease in 2.4 billion gallons.

Year	Usage (in billions of gallons)
2010	6.96
2011	6.40
2012	7.52
2013	7.41
2014	4.99

\$3.8M in savings in 2014

-32%

This impressive decrease in water use is part of a general trend by the department, underway since the drought of 1976–78, to actively design and manage sustainable roadsides to reduce water consumption. Caltrans is using roughly half the volume of water to irrigate 33 percent more acreage of landscaping than it did in 1992. This is in part due to a significant shift to choosing plants that require less water and in implementing efficient irrigation systems. Caltrans' Landscape Architecture Program even developed a tool, *TransPLANT*, to guide fellow landscape architects and landscape designers in choosing plants and grasses best appropriate to their region.

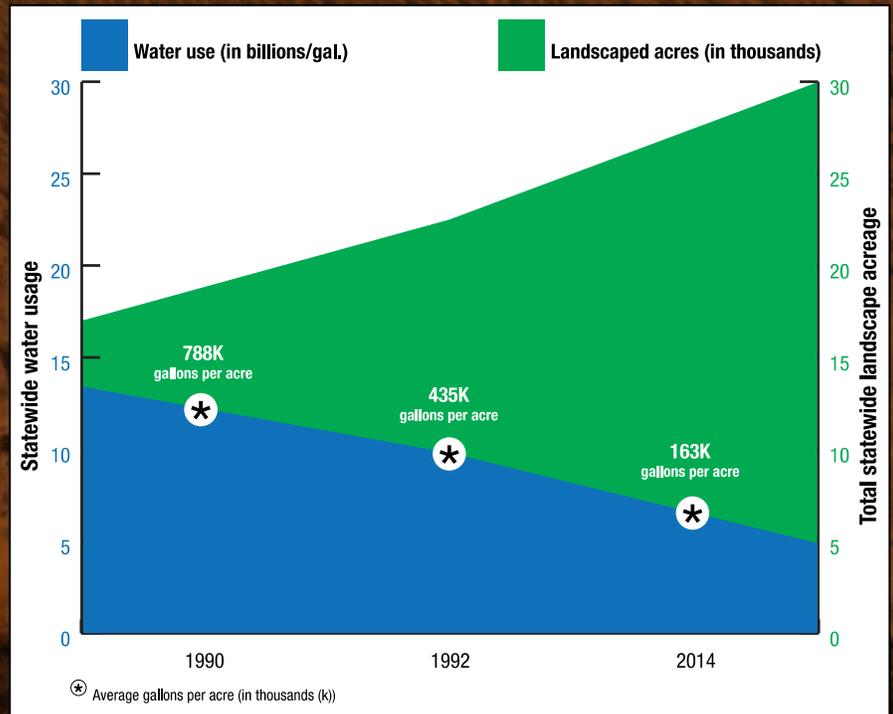


“Smart” Controller Upgrades

Caltrans reduced use largely by managing water application through 1,250 new “smart” irrigation controllers, which can reduce water usage as much as 50 percent. This technology automatically adjusts watering to weather conditions and soil moisture and alerts water managers of breaks in the system. These devices can receive weather reports via satellite, much as a smart phone does, and adjust watering according to the forecast. They also monitor soil moisture and apply water only when necessary to keep plants healthy. Additionally, the controllers will shut off and notify the water manager if the system malfunctions or leaks.

Caltrans installed these controllers on about 64 percent of the department’s irrigation systems, and they were part of a \$47 million investment Caltrans made to upgrade or repair its irrigation systems statewide. At the beginning of April 2015, Caltrans secured an additional \$28 million in emergency funding to install more of these controllers throughout the state.

Water Reduction 1990–2014



Prioritizing Projects and Other Efforts Underway

Caltrans is also postponing many landscaping projects throughout the state, narrowing down to only the most essential projects. Statewide, it has postponed 34 landscaping projects, 26 that would have been planted this year. The department has also eliminated watering grass, including at all state rest stops, unless recycled water is used.

In addition, Caltrans is working closely with local water providers to ensure the department complies with all local conservation plans and adheres to any additional local actions or reduction requirements. The department received almost \$800,000 in local water conservation rebates for its efforts to reduce water use and upgrade equipment.

As it looks for more ways to cut water, Caltrans must balance the need to protect the state's \$1.4 billion investment in highway planting. The plants along the roadway serve valuable functions such as reducing erosion, preventing graffiti, protecting stormwater quality, serving as a firebreak, and absorbing pollutants from the air.

Streamlining Water Use Tracking

Another hurdle for Caltrans has been updating and improving a cumbersome and inefficient accounting and billing system to better track its water use. Each year, Caltrans receives more than 40,000 water bills from 250 water purveyors. To further complicate matters, the unit measures for water use on these bills can vary between seven different measurements. Each of these bills must also be manually typed into the electronic accounting system. With the installation of smart irrigation controllers throughout the state that automatically record water use and upgrades to its accounting system, Caltrans will soon be able to provide more timely and accurate water consumption information.

Water Conservation and Drought Action Plan

While Caltrans has been successful at cutting water use through water-sensitive plantings and smarter irrigation practices, there is always room for improvement. To be a good steward of California's limited water resources, the department kicked off a drought action plan in February 2014. This plan lists 15 different actions for the department to take, including using recycled water for irrigation as much as possible and assigning water managers for each district throughout the state. Many of these are well underway and can be tracked on [Caltrans' Water Conservation](#) webpage.

As drought conditions in California continue over the next months and possibly longer, Caltrans is preparing to carry out further and more drastic ways to increase its water conservation efforts. Caltrans will continue to do its part to reduce water use and help fellow Californians get through the drought with as little impact as possible.

Source: Division of Design

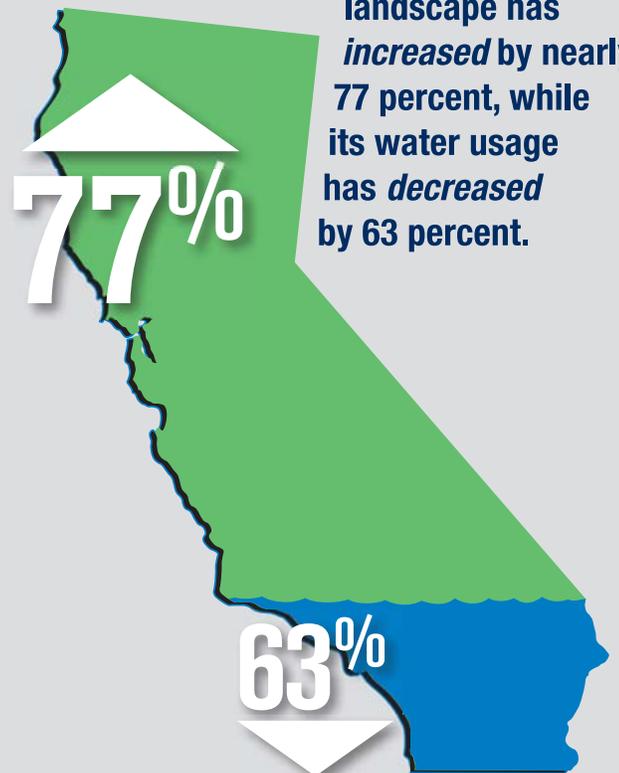
Caltrans Saving Water Since 1990

In 1990, Caltrans used 13.4 billion gallons of water to irrigate 17,000 landscaped acres.



In 2014, Caltrans used 4.9 billion gallons of water to irrigate 30,000 landscaped acres. Over the last 24 years, Caltrans'

landscape has increased by nearly 77 percent, while its water usage has decreased by 63 percent.



Appendix R – Electric Vehicle Charging Stations

Electric Vehicle Charging Memo

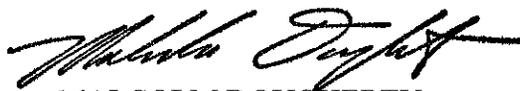
Memorandum

*Serious drought.
Help save water!*

To: CHIEF DEPUTY DIRECTOR
DEPUTY DIRECTORS
DISTRICT DIRECTORS
DIVISION CHIEFS

Date: October 5, 2015

File:


From: MALCOLM DOUGHERTY
Director

Subject: ELECTRIC VEHICLE CHARGING FOR EMPLOYEES AND OTHER STATE AGENCIES

In an effort for California Department of Transportation (Caltrans) to support the use of electric vehicles (EVs) in California, Caltrans facility managers are encouraged to provide electric vehicle charging to employees and other State agencies at parking facilities in new and existing buildings. Currently, Caltrans facility managers may allow the use of electric vehicle charging stations free of charge to State employee's plug in vehicles when infrastructure is not being utilized for Caltrans fleet vehicles.

Each Caltrans facility/location shall manage the charging stations to meet the needs of Caltrans' fleet, state employees, and other State agencies. Management may consist of the following:

- Use policies, may include, but not limited to the following:
 - Limited times of use and/or duration
 - Limited/or prohibited access, based on restriction of access, such as, in a shop or work/construction area
 - Priority for Caltrans fleet vehicles in need of charging
- Use procedures/guidelines may include, but not limited to the following:
 - Use of Charging stations operating instructions/training
 - Driver/operators are available to move vehicle if requested
 - Driver/operators required to be actively charging vehicle
 - Etiquette for shared use

While every effort should be made to make electric vehicle charging available to all employees and other State agencies, there may be various reason why charging stations may not be available for use. The management of each facility may assess the feasibility of offering charging to employees and other State agencies. The enclosed *Plug-In Electric Vehicle Handbook* from the U.S. Department of Energy, is provided as reference for information on workplace charging.

Attachment

Appendix S – Electric Vehicle Charging Stations

Current and Future Electric Vehicle Charging Station Locations

Current and Future Electric Vehicle Charging Station Locations

District	Program	District Office Address	Current or Future On-Line (Date)	EV Charger Address and Contact Person for Charger	Location Description	Quantity	Level 1 or 2	Smart or Dumb	Single or Dual	Make	Model	Indoor Parking Garage or Outdoor	Mount Type	Interested in a Solar Powered EV Charge Station?	Comments on Accessibility (i.e., Hours Accessible or Fencing Barriers)
32	Equipment	1993 Marina Blvd San Leandro CA	Est. Future - Fall 2015	1993 Marina Blvd San Leandro Alan Driessen 510-614-5971	Supervisor parking area Main Equipment Repair Shop	2	2	Smart	Dual	BTC power	EVP30180611D1 Smart Gateway CLIN-H7	Outdoor	Pedestal mounted	No	Hours accessible 0530-1500 Parking lot gate locked after 3 pm, and on weekends, 2pm on Fridays
32	Equipment	1993 Marina Blvd San Leandro CA	Est. Future - Fall 2015	120 RICKARD St. San Francisco 94134 Alan Driessen 510-614-5971	Unknown Sub Shop / Maintenance facility nearest the shop area	2	2	Smart	Dual	BTC power	EVP30180611D1 Smart Gateway CLIN-H7	Outdoor	Pedestal mounted	No	Hours accessible 0530-1500 Parking lot gate locked after 3 pm, 2pm on Fridays and on
32	Equipment	1993 Marina Blvd San Leandro CA	Est. Future - Fall 2015	6010 Monterey Rd San Jose 95138 Building B Alan Driessen 510-614-5971	Unknown Sub Shop / Maintenance facility nearest the shop area	2	2	Smart	Dual	BTC power	EVP30180611D1 Smart Gateway CLIN-H7	Outdoor	Pedestal mounted	No	Hours accessible 0600-1530 Parking lot gate locked after 3:30 pm, and on weekends 2:30pm on Fridays
32	Equipment	1993 Marina Blvd San Leandro CA	Est. Future - Fall 2015	210 Burma rd Oakland Alan Driessen 510-614-5971	Unknown Sub Shop / Maintenance facility nearest the shop area	2	2	Smart	Dual	BTC power	EVP30180611D1 Smart Gateway CLIN-H7	Outdoor	Pedestal mounted	No	Hours accessible 0500-1330 Parking lot gate locked after 1:30pm and on weekends
3	Maintenance	703 B Street, Marysville	Fall 2015	TMC, 3165 Gold Valley Drive, Rancho Cordova (Andrew Brandt) 530-741-4318	Exact location w/in the TMC parking area TBD	1	2	Smart	Dual	TBD	TBD	Outdoor	TBD	Y	Chargers will be available 6:30 am to 5:00 pm. Gate is locked after 5 pm and on
3	Maintenance	703 B Street, Marysville	Fall 2015	West Sac Mtce Station, 1040 South River Road, West Sacramento (Andrew Brandt) 530-741-4318	Exact location w/in the Mtce yard TBD	1	2	Smart	Dual	TBD	TBD	Outdoor	TBD	Y	Chargers will be available 7:00 am to 3:30 pm. Gate is locked after 3:30 pm and on weekends and holidays
1	Equipment	3290 N State St, Ukiah, CA	Future - Fall 2015	3290 N State St, Ukiah, CA (Jason Bush) 707-463-4745	South wall of Sub Shop	1	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Wall mount near main entrance to shop	Yes, but probably not the best option here.	Hours accessible: 24/7 with ID card access. Parking lot gate locked after 4:30 pm and on weekends.
4	Maintenance	111 Grand Ave Oakland	Future - Fall 2015	210 Burma Rd Oakland (NA)	Maintenance Station office Parking area	2	2	Smart	Dual	Chargepoint	CT4000	Outdoor	Pedestal mounted	No	In still under construction Maintenance Facility . Hours and accessibility is unknown until the new facility opens
7	Construction	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	902 San Gabriel Blvd City of Rosemead, 90170 (Gilbert Mota) 213-792-4803	Outside the building on the vehicle parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	
7	Construction	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	2090 Fern Lane, City of Glendale, CA 91208 (Gilbert Mota) 213-792-4803	Outside the building on the vehicle parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	
7	Construction	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	12975 West Culver Blvd, Los Angeles, CA 90066 (Gilbert Mota) 213-792-4803	Outside the building on the vehicle parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	
7	Construction	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	1201 Baldwin Park Blvd, City of Baldwin Park (Gilbert Mota) 213-792-4803	Outside the building on the vehicle parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	
7	Construction	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	13230 Firestone Blvd, Santa Fe Springs, CA 90670 (Gilbert Mota) 213-792-4803	Outside the building on the vehicle parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	yes	
12	Construction	3347 Michelson Drive Suite 100, Irvine CA 92612	Future - Fall 2015	6533 Marine Way, Irvine (Maria Espinoza-Yepe) 949-724-2294	North East corner Parking Lot	2	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Pedestal mounted	Yes	Hours accessible 0630-1600 Parking lot gate locked after 4 pm and on weekends

Current and Future Electric Vehicle Charging Station Locations

District	Program	District Office Address	Current or Future On-Line (Date)	EV Charger Address and Contact Person for Charger	Location Description	Quantity	Level 1 or 2	Smart or Dumb	Single or Dual	Make	Model	Indoor Parking Garage or Outdoor	Mount Type	Interested in a Solar Powered EV Charge Station?	Comments on Accessibility (i.e., Hours Accessible or Fencing Barriers)
12	Construction	3347 Michelson Drive Suite 100, Irvine CA 92612	Future - Fall 2015	3251 ¼ University Drive, Irvine (Maria Espinoza-Yepe) 949-724-2294	North West corner Parking Lot	2	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Pedestal mounted	Yes	Hours accessible 0630-1600 Parking lot gate locked after 4 pm and on weekends
12	Construction	3347 Michelson Drive Suite 100, Irvine CA 92612	Future - Fall 2015	15700 Tustin Village Way, Tustin (Maria Espinoza-Yepe) 949-724-2294	South West corner Parking Lot	2	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Pedestal mounted	Yes	Hours accessible 0630-1600 Parking lot gate locked after 4 pm and on weekends
32	Equipment	3400 R Street, Sacramento	Future - Fall 2015	3400 R Street, Sacramento (Thai Nguyen) 916-227-9610	south west corner, 34th Street Parking Lot	5	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Pedestal mounted	Yes	Hours accessible 0630-1600 Parking lot gate locked after 4 pm and on weekends
32	Equipment	66 Madonna Road, San Luis Obispo, CA 93401	Future - Fall 2015	Steve Willard 805-431-9725	66 Madonna Road, San Luis Obispo, CA 93401	1	2	Dumb	Dual	BTC power	EVP30180411D1_gateway	Outdoor	Wall	N/A	Hours accessible 0630-1600 Parking lot gate locked after 4 pm and on weekends
32	Equipment	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	13204 Golden State Road, Sylmar (Sal Gonzalez) 818-362-6707 ext 102	Shop 7 main office parking lot	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	Hours accessible 0530-1500 Parking lot gate locked after 0300 pm and on weekends
32	Equipment	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	7301 E. Slauson Commerce, CA 90040 (Brad Mayberry) 213-620-2067	Outside the Sub-Shop Office	1	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Pedestal mounted	Yes	Hours accessible 0530-1500 Parking lot gate locked after 0300 pm and on weekends
32	Equipment	100 S. Main St. Los Angeles, CA 90012	Future - Fall 2015	100 S. Main St. Los Angeles, CA 90012 (Ramon Melara) 213-897-5654	Inside the District Office Shop	2	2	Smart	Dual	BTC power	EVP30180611D1	Outdoor	Wall Mounted	Yes	Hours accessible 0530-1430 Parking lot gate locked after 0230 pm and on weekends
59	Engineering Services	5900 Folsom Blvd. Sacramento, CA 95819	Future - July 2015	5900 Folsom Blvd. Sacramento, CA 95819 Joel Ibarra (916) 227-7095	Parking lot North of Building M (RSP Lab)	4	Level2 - 2ea Level1 - 2ea	Smart	Dual	Chargion	TBD	Outdoor	Pedestal mounted	Yes	Chargers located behind secured area. Access is by Electronic Card key 24/7.
3	COS	703 B Street, Marysville	Future - Summer 2015	703 B Street, Marysville (Rex Hervey) 530-741-4018	South east corner of DO (Exec Cage) and south parking lot	4	2	Smart	Dual	TBD	TBD	Outdoor	Pedestal mounted	N/A	Chargers in south parking lot will be available 24/7 (no locked gates on lot)
3	COS	703 B Street, Marysville	Future - Summer 2015	379 Colusa Avenue, Yuba City (Joel Robinson) 530-741-4317	West side of RE office	1	2	Smart	Dual	BTC power	30180411D1_gate	Outdoor	Pedestal mounted	N/A	Chargers will be available 6:30 am to 5:00 pm. Gate is locked after 5 pm and on weekends
3	COS	703 B Street, Marysville	Future - Summer 2015	9th & Yuba Street (approx), Marysville (Rex Hervey) 530-741-4018	District Carpool Lot	2	2	Smart	1 Dual, 1 Single	TBD	TBD	Outdoor	Pedestal mounted	N/A	Parking lot is access controlled but available by employee ID badges 24/7
6	Manchester Center	2015 E. Shields Ave, Fresno, CA	Future - Summer 2015	Gale Sparkman	Underground secured parking	1	2	Smart	Dual	BTC power	EVP30180411D1_gateway	Indoor	Pedestal mounted	N/A	24/7 with Badge access
32	Equipment	1993 Marina Blvd San Leandro CA	Future - Summer 2016	2019 West Texas Fairfield Alan Driessen 510-614-5971	Unknown Sub Shop / Maintenance facility nearest the shop area	2	2	Smart	Dual	BTC power	EVP30180611D1 Smart Gateway CLIN-H7	Outdoor	Pedestal mounted	No	Hours accessible 0600-1530 Parking lot gate locked after 3:30 pm, and on weekends 2:30pm on Fridays
11	Administration	4050 Taylor St. San Diego, CA 92110	Future September 2015	4050 Taylor St. San Diego, CA 92110 Kevin Stevens 619-688-3202	Back of D.O. North-West area of state vehicle parking lot	1	2	Smart	Dual	Eaton	SDR3BM000000 G01 End Devise	Outdoor	Pedestal mounted	Yes	Hours accessible 0700-1600 Fenced non-secure area
11	Administration	4050 Taylor St. San Diego, CA 92110	Future September 2015	4050 Taylor St. San Diego, CA 92110 Kevin Stevens 619-688-3202	Back of D.O. North-West area of state vehicle parking lot	7	2	Smart	Dual	GE	Durastation	Outdoor	Pedestal mounted	Yes	Hours accessible 0700-1600 Fenced non-secure area

Current and Future Electric Vehicle Charging Station Locations

District	Program	District Office Address	Current or Future On-Line (Date)	EV Charger Address and Contact Person for Charger	Location Description	Quantity	Level 1 or 2	Smart or Dumb	Single or Dual	Make	Model	Indoor Parking Garage or Outdoor	Mount Type	Interested in a Solar Powered EV Charge Station?	Comments on Accessibility (i.e., Hours Accessible or Fencing Barriers)
3	Facilities	703 B Street, Marysville	June, 2015	1403 Furneaux Road, Olivehurst (Joel Robinson) 530-741-4317	Front of Building in Parking Stall	1	2	Smart	Dual	BTC power	30180411D1_gate	Outdoor	Pedestal mounted	N/A	Chargers will be available 7:00 am to 4:00 pm. Gate is locked after 4 pm and on weekends
4	Construction	111 Grand Ave, Oakland	May/June 2015	Richmond/Regatta Construction Field Office 3401 Regatta Blvd, Richmond. Please Contact Barbara Condie, Supvg. TR. Eng.	Parking lot to the right of the entry gate at 34th.	2	2	Smart	Dual	Gateway Gprs	CPHG2-00	Outdoor	Pedestal mounted	NO - The Parking spaces at the location are occupied. Furthermore, Solar Powered chargers are costly.	Hours accessible 0700-1600 Parking lot gate locked after 4 pm and on weekends.
4	Construction	111 Grand Ave, Oakland	May/June 2015	Knox Ave. Costruction Field Office 1007 Knox Ave., San Jose. Please contact Pedro Sanchez, Supvg. TR. Eng.	Along entrance to building, at the end farthest from the entry gate at Knox.	1	2	Smart	Dual	Gateway Gprs	CPHG2-00	Outdoor	Pedestal mounted	NO - The site is located under an overpass. The Solar chargers are more costly than non Solar chargers.	Hours accessible 0700-1600 Parking lot gate locked after 4 pm and on weekends.

Appendix T – Electric Vehicle Charging Stations

Solar Electric Vehicle Charging Station Locations

Solar Electric Vehicle Chargers

Revised Locations	Status
855 M Street, Fresno, CA 93721	Delivered
1120 N Street, Sacramento, CA 95814	Delivered
691 S. Tustin Street, Orange, CA 92866	Delivered
1976 E Dr. MLK Jr. Blvd, Stockton, CA 95205	Delivered
4050 Taylor Street, San Diego, CA 92110	Not delivered yet
9087 Elkmont Wy, Elk Grove, CA 95624	Not delivered yet
1201 Baldwin Park Blvd., Baldwin Park, CA 91706	Not delivered yet
3165 Gold Valley Drive, Rancho Cordova, CA 95742	Not delivered yet
1463 Broadway, El Cajon, CA 92021	Not delivered yet
34 th Street & Stockton Blvd, Sacramento, CA 95816	Not delivered yet
1808 N. Batavia Street, Orange, CA 92865	Not delivered yet

Appendix U – Zero Emission Vehicle (ZEV) Fleet Purchases

ZEV Plan

CALIFORNIA DEPARTMENT OF TRANSPORTATION

DRAFT THREE-YEAR ZERO-EMISSION VEHICLE IMPLEMENTATION PLAN

Introduction

The California Department of Transportation (Caltrans) has prepared a draft Three-Year Zero-Emission Vehicle Implementation Plan with all required components for submittal to the Department of General Services (DGS). This draft will be concurrently reviewed and approved by other stakeholders. Once all feedback (internal and external) is received, the plan will be finalized.

Background

Executive Order (EO) B-16-2012 signed by Governor Edmund G. Brown Jr. on March 23, 2012, seeks to reduce greenhouse gas (GHG) emissions through encouraging the development and success of zero-emission vehicles (ZEVs), to protect the environment, stimulate economic growth and to improve the quality of life. The EO orders State entities to support and facilitate the rapid commercialization of ZEVs and sets a target GHG reduction from transportation equating to 80 percent less than 1990 levels by 2050. The EO specifically requires the state fleet to increase ZEVs (through replacement) so that 10 percent are ZEVs by 2015 and 25 percent by 2020.

Following the EO, DGS issued Management Memo (MM) 13-04, Zero-Emission Vehicle Implementation Plan (ZEV Plan) on January 22, 2012. The MM provides direction on meeting the ZEV requirements in the EO. The MM requires state agencies to submit a three-year plan for fiscal years (FY) 2013/14, 2014/15 and 2015/16.

The MM defines ZEVs and spells out definitions and requirements. Pure ZEVs are defined as hydrogen fuel cell vehicles and battery electric vehicles (BEVs). Transitional ZEVs are defined as plug-in hybrid electric vehicles (PHEVs) and get partial credit based on ratios. The EO applies to light-duty sized fleet (less than 8,500 pounds Gross Vehicle Weight Rating (GVWR) and ZEV fuel reporting is required. Finally, some exceptions for special performance requirements are allowed.

Additionally the MM sets forth six components of the required written plan as follows:

1. Evaluation of existing fleet.
2. Parking locations of ZEVs and responsible entity.
3. Quantity of chargers.

4. Charging installation timeline partnership.
5. ZEV acquisition plan and charger installation timeline.
6. Non-ZEV three-year plan and special performance requirement.

Plan Preparation

Caltrans Division of Equipment has prepared the ZEV Plan by doing an analysis of the light-duty fleet to determine the quantity future candidates for replacement and separately conducted an operator survey to determine where a ZEV could meet usage needs and if vehicles could be downsized.

Three-Year Zero-Emission Vehicle Implementation Plan

1. Evaluation of Existing Fleet

Caltrans identified 3,592 vehicles in the fleet that are a minimum of 8,500 GVWR. Of which, 749 are sedans.

Based on the projection of vehicles that will meet replacement criteria, the potential light-duty fleet replacements and the required number of ZEVs (and BEVs) are summarized below.

	FY 13/14	FY 14/15²	FY 15/16²
Potential Replacements	1040 ¹	238	257
ZEV credits Required	0	24	26
BEVs Required	0	12	13

¹ FY 13/14 has a large number of potential replacements because light-duty vehicles were not replaced in FY 09/10, FY 10/11, and FY 11/12. Therefore, a large number of vehicles currently meet replacement criteria. All vehicles not selected for replacement in FY 13/14 will rollover into the future years.

² Potential replacements are based on projected usage only.

Due to the limited available charging station infrastructure, we have committed to meeting the requirements of the EO to purchase 10 percent ZEVs (of which half must be BEVs). Caltrans projects purchasing 25 BEVs and 50 PHEVs (assuming 2:1 credit ratio) between now and FY 2015/16.

Caltrans surveyed users of light-duty fleet vehicles to determine which vehicles could be replaced with BEVs and how many vehicles could be downsized. Caltrans has initially focused its evaluation on sedans due to ZEV availability in this configuration. Although all responses to the sedan survey have not been received, Caltrans has gathered enough information (at this time) to determine that 80 sedans could be potentially replaced with BEVs and five sedans may be downsized. Note: the survey was conducted for all light-duty fleet under 8,500 GVWR.

Caltrans has determined it can comply with the 10 percent requirement through the purchase of sedans. However, Caltrans intends to investigate and pursue the purchase of ZEV pickups for evaluation.

2. Parking Locations of ZEVs and Responsible Entity

Through the survey, the parking locations of all potential ZEVs were collected. The responsible entity of each parking location has also been identified. Of the 28 potential parking facilities identified, 6 are commercial leases and 22 are Caltrans Districts. Details of potential locations can be found in Attachment 1.

3. Quantity of Chargers

Caltrans has a limited existing electric vehicle charging station infrastructure with operational stations located at the following districts:

District 1 – 1 electric vehicle charging station at 1656 Union Street, Eureka

District 7 – 5 electric vehicle charging stations at 100 South Main Street, Los Angeles

Given the projected potential purchase requirement of 25 BEVs and 50 PHEVs and the three-year time horizon of this ZEV plan, Caltrans projects the need for a minimum of 38 charging stations that have the ability to charge two vehicles at the same time. Caltrans ultimately plans to deploy ZEVs in pairs where practical.

4. Charging Installation Timeline Partnership

Where the Caltrans Districts are the responsible entity, the Districts will oversee the installations of needed charging stations. The timeline for installations will be coordinated with ZEV deployments. For early ZEV (1 BEV and 35 PHEVs) deployments approved for FY 12/13, the 1 BEV will be deployed to a location with an existing charging station and the 35 PHEVs will be deployed where charging stations are planned for FY 13/14. A minimum of 17 locations (15 for the FY 12/13 ZEVs and 2 for FY13/14 ZEVs) are proposed to have a charging station installed within a year. Note: the delivery timeframe for FY12/13 PHEVs and the BEV is approximately 180 days. Although the charging stations will likely not be in place initially for the PHEVs, they will be in the planning stages. Planned and existing locations for FY 12/13 ZEV deployments are shown in Attachment 2.

In locations where Caltrans is not the responsible party, charging station deployments may be delayed or not feasible. ZEV deployments may need to be relocated to Caltrans controlled facilities, to be reviewed on a case-by-case basis.

5. ZEV Acquisition Plan and Charger Installation Timeline

Year	Total ZEV (credits)	BEVs	PHEVS ¹		Charging Locations ²
			credits	vehicles	
12/13	18.5	1	17.5	35	6
13/14	7	5	2	4	17
14/15	9	6	3	6	6 ³
15/16	15.5	13	2.5	5	9 ³
Total Required	50	25	25	50	38

¹ Assume 2:1 credit ratio

² Multiple charging stations may be required at each location

³ Future plans are to deploy ZEV vehicles in pairs whenever possible

6. Non-ZEV Three-Year Plan and Special Performance Requirements

The Non-ZEV Three-Year Plan will consist of vehicles that are projected to meet replacement criteria over the next three years. Based on the aforementioned projected replacement estimates, Caltrans will potentially purchase 500 vehicles in FY 13/14, and 250 vehicles in both, FY 14/15 and FY 15/16.

Caltrans foresees that it can meet the requirement of the EO through the purchase of sedans and has not become aware of any special performance requirements for the sedans at this time. Although once the initial deployment of ZEVs has been completed special performance requirements may come to light.

Next Steps

- Finalize surveys (sedan and non sedan survey).
- Gain internal census on initial 35 ZEV deployments (in process).
- Communicate Draft Three-Year ZEV Plan to internal stakeholders, revise plan as needed.
- As needed, incorporate feedback from DGS on Draft Three-Year ZEV Plan into finalized plan.
- Seek executive approval on finalized plan and revise plan as needed.
- As needed, submit final plan to DGS.
- Depending on when and the extent of internal and external feedback are received will affect the timeframe for finalization of the plan.

Potential Locations of ZEV's

District	Location Address	Responsible Entity
01	1656 Union Street Eureka, 95501	Caltrans - District 1
02	1031 Butte St Redding, 96001	Commercial Lease
02	13700 Highway 36 East Red Bluff, 96080	Commercial Lease
02	1657 Riverside Drive Redding, 96001	Caltrans - District 2
02	2535 Notre Dame Blvd Chico, 95927	Caltrans - Maintenance Office
04	111 Grand Ave Oakland, 94612	Caltrans - District 4
04	2616 N Main St Walnut Creek, 94947	Caltrans - Maintenance Office
04	1993 Marina Blvd San Leandro, 94577	Caltrans – Equipment Shop
04	600 Lewelling San Leandro, 94579	Caltrans - Maintenance Office
05	50 Higuera St San Luis Obispo, 93401	Caltrans - District 5
06	855 M Street Fresno, 93727	Commercial Lease - District 6
06	1352 W. Olive Ave Fresno, 93728	Caltrans - District 6
06	1226 Olive Drive Bakersfield, 93308	Caltrans - Maintenance Office
06	1635 W Pine Ave Fresno, 93728	Caltrans - Maintenance Office

California Department of Transportation
 Draft Three-Year Zero-Emission Vehicle Implementation Plan
 Attachment 1

District	Location Address	Responsible Entity
06	3240 N Millbrook Fresno, 93726	Caltrans - Construction Office
06	Manchester 2015 East Shields Ave Fresno, 93726	Commercial Lease - District 6
07	25111 The Old Road, 120 So Spring St Newhall, 91321	Caltrans - Maintenance Office
07	950 County Square Drive, Ste. 112 Ventura, 93003	Caltrans – Surveys Office
07	100 S. Main St Los Angeles, 90012	Caltrans - District 7
07	2650 S. Garey Ave Pomona, 91766	Caltrans - Maintenance Office
08	464 West Fourth St San Bernardino, 92401	Caltrans - District 8
10	1976 MLK Jr. Blvd Stockton, 95205	Caltrans - District 10
11	4050 Taylor St San Diego, 92110	Caltrans - District 11
12	3347 Michelson Dr, Ste. 100 Irvine, 92612	Commercial Lease - District 12
12	3377 Michelson Dr, Structure #5 Irvine, 92612	Commercial Lease
12	6681 Marine Way Irvine, 92618	Caltrans – Traffic Office
32	3400 R St Sacramento, 95816	Caltrans - Equipment HQ
HQ	1120 N Street Sacramento, 95814	Caltrans - Headquarters

Fiscal Year 12/13 ZEV Deployment

Proposed District	Proposed Deployment Location Address	Charging Station Status	Quantity of BEVs Proposed	Quantity of PHEVs Proposed
01	1656 Union Street Eureka, 95501	Existing station	1	2
02	13700 Highway 36 East Red Bluff, 96080	Station proposed - Commercial Lease		1
02	1031 Butte St Redding, 96001	Station proposed - Commercial Lease		1
03	2535 Notre Dame Blvd Chico, 95927	Station proposed - Caltrans		1
04	111 Grand Ave Oakland, 94612	Stations proposed - Caltrans (Quantity TBD)		8
04	2616 N Main St Walnut Creek, 94947	Stations proposed - Caltrans (Quantity TBD)		1
05	50 Higuera St San Luis Obispo, 93401	Station proposed - Caltrans		2
06	855 M Street Fresno, 93727	Station proposed - Commercial Lease		1
06	1352 W Olive Ave Fresno, 93728	Station proposed - Caltrans		1
07	100 S. Main Street Los Angeles, 90012	Existing Station		2
07	2650 S. Garey Ave Pomona, 91766	Station proposed - Caltrans		1
08	464 West Fourth St San Bernardino, 92401	Stations proposed - Caltrans (Quantity TBD)		3
11	4050 Taylor Street San Diego, 92110	Stations proposed - Caltrans (Quantity TBD)		6

California Department of Transportation
 Draft Three-Year Zero-Emission Vehicle Implementation Plan
 Attachment 2

Proposed District	Proposed Deployment Location Address	Charging Station Status	Quantity of BEVs Proposed	Quantity of PHEVs Proposed
12	3347 Michelson Dr, Ste. 100 Irvine, 92612	Station proposed - Commercial Lease		3
12	6681 Marine Way Irvine, 92618	Station proposed - Caltrans		1
HQ	1120 N Street Sacramento 95814	Station proposed - Caltrans		1