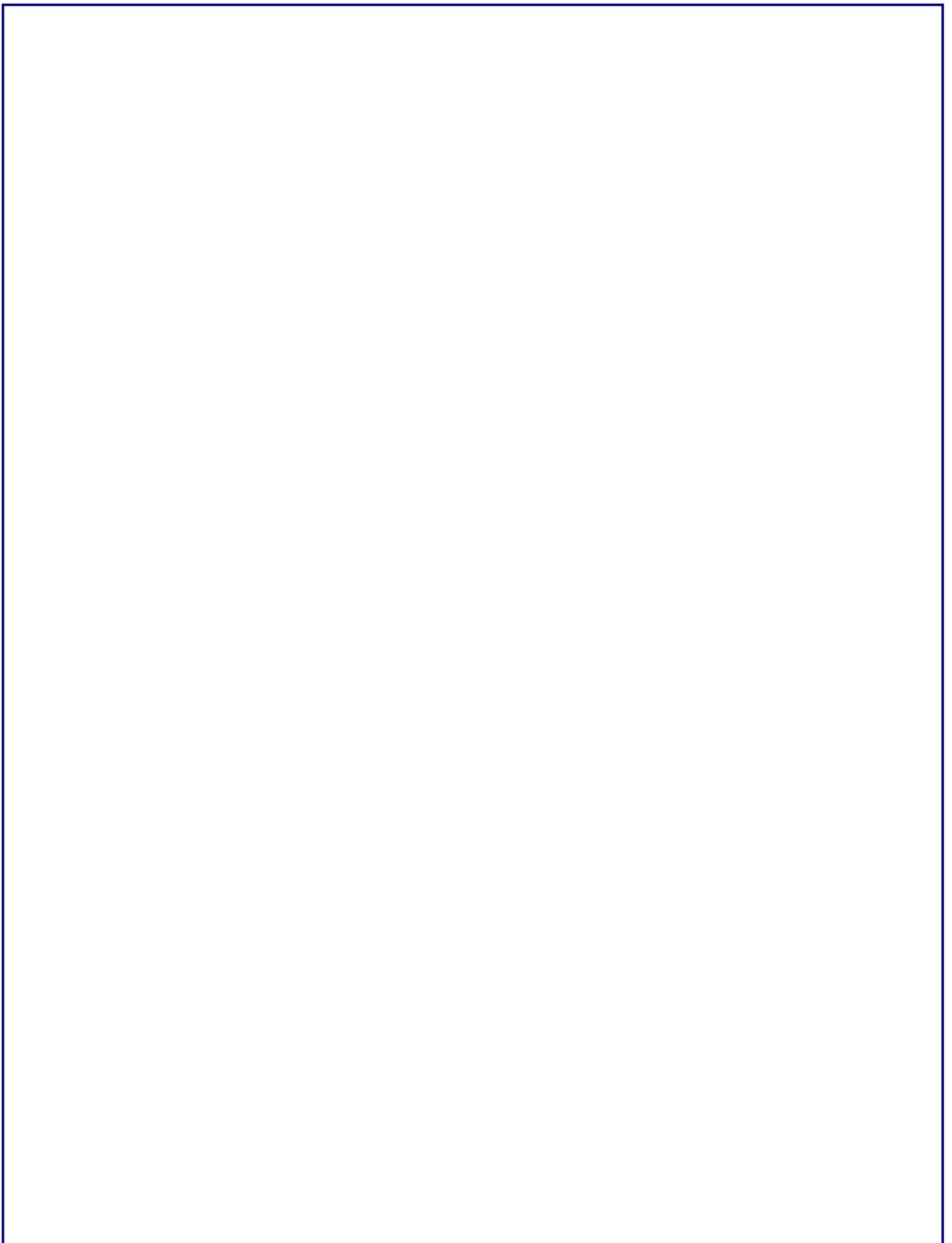




Energy Efficient State Property Revolving Fund Loan Program

American Reinvestment and Recovery Act





Executive Summary July-August 2012

The Department of General Services (DGS) and its contractors have completed the installation of all of the energy efficiency retrofits in sixty-two state-owned facilities and five parking lots. Upon project completion, DGS issues a loan agreement amendment after the loan is re-amortized to reflect the actual disbursed amount with an annual payment that is equal to realized savings.

✚ Small Building Program

- The loans for the Department of Mental Health are in the closeout process.
- The Department of Developmental Services' facility in Sonoma is now complete and a measurement and verification (M&V) report is pending.
- The Department of Motor Vehicles and the California Highway Patrol have recently received final reports on their energy savings. Loan closeout is underway.
- All work is complete on the Department of Water Resources projects. Loan closeout will follow final energy savings documentation.

✚ Large Building Program

- Seven of the nine projects at DGS facilities await loan closeout.
- Two chiller projects remain unfinished. At both sites, Fresno and CalTrans District 11, final programming and commissioning are nearly complete and M&V studies will follow.
- Loan 101 closeout will take place when savings at all projects have been verified.

✚ CDCR & OCIO Managed Projects

- CDCR: All work is complete and loan closeout is underway.
- OCIO: All work is complete and loan closeout is underway.

✚ Program Management

- On September 9, 2011, the Legislature amended AB 1392 authorizing the California Energy Commission (CEC) to transfer additional funds, up to \$50 million, to the Energy Efficient State Property Revolving Fund for FYs 2011-12 and 2012-13. A transfer of \$1.5 million took place on June 28, 2012, and a second transfer of 1,130,724.62 occurred after the CEC identified residual funds after closing out all of the grants issued under ARRA.
- The Energy Efficient State Property Revolving Fund has collected the first annual repayment from all but one loan recipient. Due to project delays, the date for the Department of Mental Health's repayment is in October. Payments from the remaining eleven recipients total \$3,947,409.02
- A total of \$6 to \$7 million, comprised of the loan repayments, transfers from the CEC, and unspent funds from the original \$25 million, will be available for lending in late 2012.
- DGS has created a web site for the Energy Efficient State Property Revolving Fund Loan Program, <http://www.dgs.ca.gov/resd/Programs/greenbuilding.aspx>.
- Total funds disbursed to date are \$23,293,095.





Program/Loan Agreement	Loan Amt	Vendors	Jobs*	Disbursed
DGS Large Buildings Program				
Loan 101-DGS	\$5,927,891	Various	64.0	\$5,151,687
Loan 104-OFAM	\$554,898	SmartWatt	6.0	\$470,063
Loan 106-CHP	\$157,080	SmartWatt	1.7	\$144,261
Total	\$6,639,869			\$5,766,011

Past 30-Day Activities (July-August - 2012)

Loan 101: C: 02/10 - 06/12. This loan package is comprised of energy efficient projects in 9 buildings.

BOE: 100% complete. Awaiting loan closeout.

Bateson: 100% complete. Awaiting loan closeout.

CEC: 100% complete. Awaiting loan closeout.

Bonderson Building: 100% complete. Awaiting loan closeout.

Secretary of State: 100% complete. Awaiting loan closeout.

San Diego (Cal Trans District 11 and Mission Valley): 100% complete. Awaiting loan closeout.

Cal Trans District 11: 99% complete. Final programming and commissioning underway.

Fresno: 99% complete. Final programming and commissioning underway.

Jesse Unruh: 100% complete. Awaiting loan closeout.

Loan 104: OFAM Parking Lots: 100% complete. Awaiting loan closeout.

Loan 106: CHP HQ: 100% complete. Awaiting loan closeout.

Small Buildings Program

Loan 108-DMH/Atascadero	\$673,297	JCI	7.3	\$673,129
Loan 110-DMH/Patton	\$399,790	JCI	4.3	\$399,682
Loan 114-CHP	\$1,848,511	JCI	20.0	\$1,810,289
Loan 116-DMV	\$1,324,365	JCI	14.3	\$1,220,128
Loan 118-DWR	\$931,965	JCI	10.1	\$849,529
Loan 120-DDS	\$4,993,118	JCI	53.9	\$4,559,004
Total	\$10,171,046			\$9,511,761

Past 30-Day Activities (July-August - 2012)

Loan 108: DMH, Atascadero SH. C:2/11 - 4/12; 100% complete. Loan closeout underway.

Loan 110: DMH Patton SH. C: 1/11 - 5/12; 100% complete. Loan closeout underway.

Loan 114: CHP (19 sites). C: 12/10 - 5/12; 100% complete. Final energy savings information pending completion of the utility report for one facility,

Loan 116: DMV (19 sites). C: 12/10- 5/12; 100% complete. Waiting for final energy savings documentation from contractor.

Loan 118: DWR (4 sites). C: 12/10 - 05/12; 98% complete. Waiting for final invoices from three project sites.

Loan 120: DDS (3 campuses). C:1/11 - 03/12; 100% complete. Final energy savings information pending completion of the utility report for one facility,

CDCR Energy Retrofits

Loan 102 CDCR	\$4,108,998	CDCR ESCO	44.4	\$4,084,982
Loan 124 CDCR	\$1,512,401	CDCR ESCO	16.3	\$1,334,609

Past 30-Day Activities (July-August - 2012)

Loan 102: CCI Tehachapi, Salinas Valley and Corcoran State Prisons: C: 9/10 - 12/11; this project is being managed by CDCR. Loan closeout underway.

Loan 124: Corcoran State Prison Substance Abuse Treatment Facility (SATF), and CA Rehabilitation Center Norco. C: 12/10 - 12/11; this project is being managed by CDCR. Loan closeout underway.

Program/Loan Agreement	Loan Amt	Vendors	Jobs*	Disbursed
CA Technology Agency (Office of Chief Information Officer) Energy Retrofits				
Loan 112-OCIO	\$2,299,562	ABM	24.8	\$2,274,779

Past 30-Day Activities (July-August - 2012)
Gold Camp C: 12/10 - 02/12; 100% complete. This project managed by the OCIO. Loan closeout underway.

Administration	\$400,146	DGS	4.3	\$320,953
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Past 30-Day Activities (July-August - 2012)
Program Administration includes costs associated with program oversight, legal counsel, accounting support, and federal reporting. In June 2011, the original allocation of \$268,124 was augmented by \$132,022, interest earned from the Surplus Money Investment Fund (SMIF).

Total Program	\$25,132,022		271.4 *	\$23,293,095
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* The number of jobs created is based upon a calculation provided by the President's Council of Economic Advisors (10.8 per \$1 million of construction).

**ARRA Energy Efficient State Property Revolving Fund
Projects in Progress
Revised August 25, 2012**

Project/Building	DGS Project #	Energy Measure	ARRA-Funded Loan Amount*	Amount Disbursed to Date	Annual Savings			Simple Payback (years)
					kWh	Therms	Dollars	
SMALL BUILDINGS PROGRAM								
Department of Motor Vehicles - Loan 116								
Arleta Field Office	131601	Lighting Upgrade Web-Based Monitoring	\$69,415	\$64,378	45,438		\$5,355	13.0
Chula Vista	131602	Lighting Upgrade Web-Based Monitoring	\$77,818	\$72,074	45,996		\$8,000	9.7
El Cajon	131603	Lighting Upgrade Web-Based Monitoring	\$27,585	\$25,837	34,065		\$6,295	4.4
Hanford	131604	Lighting Upgrade Web-Based Monitoring	\$36,480	\$34,013	18,707		\$2,285	16.0
Hollister	131605	Lighting Upgrade Web-Based Monitoring	\$20,796	\$19,565	11,490		\$2,053	10.1
Merced	131606	Lighting Upgrade Web-Based Monitoring	\$61,284	\$56,887	39,651		\$6,060	10.1
Modesto	131607	Lighting Upgrade Web-Based Monitoring	\$36,936	\$34,243	30,068		\$3,307	11.2
Mountain View	131608	Lighting Upgrade Web-Based Monitoring	\$35,651	\$33,218	32,983		\$5,218	6.8
Oakland Claremont	131609	Lighting Upgrade Web-Based Monitoring	\$74,442	\$68,967	57,199		\$8,993	8.3
Oakland Coliseum	131610	Lighting Upgrade Web-Based Monitoring	\$67,133	\$62,245	37,350		\$5,479	12.3
Redwood City	131611	Lighting Upgrade Web-Based Monitoring	\$73,369	\$67,994	41,468		\$6,494	11.3
Sacramento	131612	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$256,831	\$237,647	81,136	776	\$9,885	12.3
San Diego	131613	Lighting Upgrade Web-Based Monitoring	\$58,172	\$53,983	41,654		\$7,543	7.7
San Mateo	131614	Lighting Upgrade Web-Based Monitoring	\$32,017	\$29,855	53,406		\$9,196	3.5
Turlock	131615	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$137,952	\$124,974	50,701	253	\$5,613	24.6
Visalia	131616	Lighting Upgrade Web-Based Monitoring	\$38,332	\$35,713	40,494		\$4,564	8.4
Watsonville	131617	Lighting Upgrade Web-Based Monitoring	\$22,972	\$21,494	13,414		\$2,365	24.6
Yuba City	131618	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$113,354	\$102,690	45,807	713	\$8,433	13.4
Salinas	134213	Lighting Upgrade Web-Based Monitoring	\$83,826	\$74,352				
Total DMV - Loan 116			\$1,324,365	\$1,220,128	721,027	1,742	\$107,138	12.4
CA Highway Patrol - Loan 114								
Altadena Area	131621	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$147,580	\$145,280	66,275		\$7,695	19.2
Central Los Angeles Area	131622	Lighting Upgrade Web-Based Monitoring	\$91,005	\$110,275	92,763		\$10,511	8.7
Coalinga Area	131623	Lighting Upgrade HVAC Upgrade Rezone HVAC Web-Based Monitoring	\$134,811	\$131,511	45,403		\$7,909	17.0
El Cajon Area	131624	Lighting Upgrade Web-Based Monitoring	\$58,370	\$58,370	43,144		\$8,141	7.2
Fort Tejon Area	131625	Lighting Upgrade Web-Based Monitoring	\$54,650	\$54,650	33,523		\$4,274	12.8

*The ARRA-funded loan amount reflects all project costs, including a construction contingency of 5 percent.

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Project/Building	DGS Project #	Energy Measure	ARRA-Funded Loan Amount*	Amount Disbursed to Date	Annual Savings			Simple Payback (years)
					kWh	Therms	Dollars	
Fresno Area	131626	Lighting Upgrade Web-Based Monitoring	\$63,819	\$62,169	97,278		\$13,142	4.9
Hanford Area	131627	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$106,161	\$103,140	52,630		\$8,353	12.7
Hayward Area	131628	Lighting Upgrade Web-Based Monitoring	\$49,685	\$48,035	75,448		\$13,142	3.8
Hollister-Gilroy Area	131629	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$153,782	\$138,396	47,958	422	\$9,105	16.9
Madera Area	131630	Lighting Upgrade Web-Based Monitoring	\$37,928	\$37,928	38,988		\$6,791	5.6
Merced Area	131631	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$264,375	\$261,335	226,548	405	\$39,909	6.6
Modesto Area	131632	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$162,223	\$156,597	147,187	1,250	\$19,354	8.4
Oakland Area	131633	Lighting Upgrade Web-Based Monitoring	\$64,220	\$64,220	119,777		\$20,864	3.1
Redwood City Area	131634	Lighting Upgrade Web-Based Monitoring	\$37,878	\$37,878	44,109		\$7,683	4.9
San Jose Area	131635	Lighting Upgrade Web-Based Monitoring	\$39,574	\$39,574	82,777		\$14,419	2.7
South Los Angeles Area	131636	Lighting Upgrade Web-Based Monitoring	\$55,174	\$55,174	137,410		\$16,064	3.4
West Los Angeles Area	131637	Lighting Upgrade Rezone HVAC Web-Based Monitoring	\$54,087	\$54,087	82,806		\$9,466	5.7
Yuba-Sutter Area	131638	Lighting Upgrade HVAC Upgrade Rezone HVAC Web-Based Monitoring	\$156,254	\$156,254	59,152	181	\$10,516	14.9
San Luis Obispo	134212	Lighting Upgrade Web-Based Monitoring	\$116,935	\$95,416				
Total CHP - Loan 114			\$1,848,511	\$1,810,289	1,493,176	2,258	\$227,339	8.1
Department of Developmental Services - Loan 120								
Fairview	131596	Lighting Upgrade Web-Based Monitoring	\$1,490,091	\$1,373,695	2,101,987		\$257,624	5.8
Sonoma	131597	Lighting Upgrade HVAC Upgrade - Nelson HVAC Upgrade - EJOR Web-Based Monitoring	\$2,677,308	\$2,421,021	2,160,715	36,114	\$429,240	6.2
Porterville	131598	HVAC - VAV Conversion Web-Based Monitoring	\$825,719	\$764,289	1,069,858	79,560	\$139,020	5.9
Total DDS - Loan 120			\$4,993,118	\$4,559,004	5,332,560	115,674	\$825,884	6.0
Department of Mental Health								
DMH - Loan 108								
Atascadero	131599	Lighting Upgrade Web-Based Monitoring	\$673,297	\$673,129	572,066		68,648	9.8
DMH - Loan 110								
Patton	131600	Lighting Upgrade Web-Based Monitoring	\$399,790	\$399,682	405,692		48,827	8.2
Total DMH			\$1,073,087	\$1,072,811	977,758		\$117,475	9.1

*The ARRA-funded loan amount reflects all project costs, including a construction contingency of 5 percent.

**ARRA Energy Efficient State Property Revolving Fund
Projects in Progress
Revised August 25, 2012**

Project/Building	DGS Project #	Energy Measure	ARRA-Funded Loan Amount*	Amount Disbursed to Date	Annual Savings			Simple Payback (years)
					kWh	Therms	Dollars	
Department of Water Resources - Loan 118								
Bryte Chemical Lab	131592	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$469,075	\$428,531	247,165	9,171	\$46,300	10.1
Oroville Visitors Center	131593	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$118,856	\$110,662	51,508	1,400	\$9,465	12.6
Romero Overlook	131594	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$120,727	\$110,254	31,287		\$5,172	23.3
Vista Del Lago	131595	Lighting Upgrade HVAC Upgrade Web-Based Monitoring	\$223,307	\$200,082	173,061		\$23,686	9.4
Total DWR			\$931,965	\$849,529	730,065	1,400	\$123,295	7.6
Total Small Buildings Program			\$10,171,046	\$9,511,761	9,254,586	121,074	\$1,401,131	7.3
LARGE BUILDINGS PROGRAM								
Department of General Services - Loan 101								
Secretary of State	130440	Replace chiller Lighting controls Replace air filters Clean coils	\$635,706	\$527,606	1,015,995		\$88,547	7.2
Bateson	130442	Lighting controls Replace air filters Clean coils	\$247,004	\$221,400	559,269		\$49,819	5.0
Jesse Unruh	130443	Lighting controls and variable fan drives Replace air filters Clean coils	\$351,804	\$309,604	374,587		\$33,595	10.5
BOE	131674	Lighting upgrade VFD retrofit VAV optimization DW pumps installation Water valve replacement Boiler retrofit	\$2,293,008	\$1,901,795	2,444,207	28,523	\$281,277	8.2
Bonderson	131071	Lighting retrofit	\$587,090	\$582,480	476,073		\$47,607	12.3
Mission Valley	131072	Exterior lighting retrofit	\$169,933	\$127,053	125,176		\$17,511	9.7
CalTrans District 11	131073	Exterior lighting retrofit						
Fresno State Office Building	131062	Optimum start routine for chiller and boiler Reset condenser water temperature Optimum stop routine Chilled Water Reset Variable air volume (VAV) air handlers Chiller retrofit	\$415,335	\$412,229	243,426	2,863	\$43,823	9.5
CA Energy Commission	130441	De-lamp perimeter lights Reschedule air handler Reschedule hot water pump Reschedule fans Occupancy sensor on hearing room air handler Night cooling Occupancy sensor for lighting	\$179,000	\$170,580	170,580		\$15,033	11.9

*The ARRA-funded loan amount reflects all project costs, including a construction contingency of 5 percent.

ARRA Energy Efficient State Property Revolving Fund									
Projects in Progress									
Revised August 25, 2012									
Project/Building	DGS Project #	Energy Measure	ARRA-Funded Loan Amount*	Amount Disbursed to Date	Annual Savings			Simple Payback (years)	
					kWh	Therms	Dollars		
CalTrans District 11	131695	Chiller replacement	\$1,049,011	\$898,941	405,830	29,507	\$80,268	13.1	
Total Loan 101			\$5,927,891	\$5,151,687	5,815,143	32,370	\$657,480	9.0	
Office of Fleet and Asset Management - Loan 104									
Parking Lot 8	131066	Lighting retrofits	\$554,898	\$22,666	477,430		\$116,350	4.8	
Parking Lot 14	131067			\$98,513					
Parking Lot 38	131068			\$51,757					
Parking Lot 50	131069			\$119,652					
Parking Lot 55	131070			\$177,474					
Total DGS/OFAM			\$554,898	\$470,063	477,430		\$116,350	4.8	
California Highway Patrol - Loan 106									
CHP Headquarters	131074	Lighting retrofit	\$157,080	\$144,261	211,422		\$18,675	8.4	
Total CHP			\$157,080	\$144,261	211,422		\$18,675	8.4	
TOTAL LARGE BUILDINGS PROGRAM			\$6,639,869	\$5,766,011	5,409,313	40,587	\$577,212	11.5	
CA DEPARTMENT OF CORRECTIONS AND REHABILITATION PROJECTS									
CDCR Loan 102									
Tehachapi	131846	Install boilers	\$786,400	\$786,371	430,116	345,322	\$317,746	2.5	
Soledad Valley State Prison	113847	Lighting upgrades	\$1,416,259	\$684,626	867,735	95799	\$158,461	2.8	
		Replace water heaters							
		Lighting retrofit							
Salinas Correctional Training Facility	131848	Replace boilers	\$1,906,339	\$727,619	696,083	223,021	\$352,839	4.0	
		Lighting retrofit							
		Upgrade air controls							
Corcoran State Prison	131849	Expand energy mgmt system	\$1,906,339	\$768,182	2,637,607	66,906	\$292,879	4.0	
		Programmable thermostats							
		Variable fan drives							
Total Loan 102				\$4,108,998	\$4,084,982	6,614,400	731,048	\$1,302,365	3.2
Corcoran Treatment Center									
Corcoran Treatment Center	131850	HVAC Controls	\$745,094	\$632,793	5,413,745	49,944	\$532,107	1.4	
Corcoran Treatment Center	131850	Outside Lighting Controls							
Norco Rehabilitation	131851	Boiler Replacement	\$767,307	\$701,816	45,505	220,980	\$161,606	4.7	
Total Loan 124			\$1,512,401	\$1,334,609	5,459,250	270,924	\$693,713	2.2	
TOTAL CDCR			\$5,621,399	\$5,419,591	12,073,650	1,001,972	\$1,996,078	2.8	
OFFICE OF THE CHIEF INFORMATION OFFICER									
OCIO - Loan 112									
Gold Camp Data Center	130492	CRAC Units Upgrade	\$2,299,562	\$2,274,779	4,134,410		\$359,054	6.4	
		Chiller Upgrade							
		Cooling Towers							
		Lighting Upgrade							
TOTAL OCIO			\$2,299,562	\$2,274,779	4,134,410		\$359,054	6.4	
ADMINISTRATION			\$268,125	\$320,953					
PROGRAM INCOME EARNED FROM THE SURPLUS MONEY INVESTMENT FUND (SMIF)			\$132,022						
LOAN FUND PROGRAM TOTALS			\$25,132,022	\$23,293,095	30,871,959	1,163,633	\$4,333,475	5.8	

*The ARRA-funded loan amount reflects all project costs, including a construction contingency of 5 percent.