

Lawrence Berkeley
National Laboratory
2015 Annual Financial Report



Office of the Chief Financial Officer

Lawrence Berkeley National Laboratory
2015 Annual Financial Report

Ernest Orlando Lawrence Berkeley National Laboratory
University of California
Berkeley, California

February 2016



Front Cover: View of the Advanced Light Source (ALS) dome between the General Purpose Laboratory (GPL) and Chu Hall. Photo by Roy Kaltschmidt, Lawrence Berkeley National Laboratory.

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Lawrence Berkeley National Laboratory is an internationally renowned institution dedicated to addressing the world's most urgent scientific challenges, from advancing sustainable energy and protecting human health to revealing the origins and fate of the universe. As the original home of "team science," which emphasizes interdisciplinary research in the public interest, Berkeley Lab's scientific expertise has been recognized with 13 Nobel Prizes. The University of California has managed the Lab on behalf of the U.S. Department of Energy (DOE) since its founding in 1931.



FY2015 financial results reflect a year of significant scientific, operational and financial achievement for Lawrence Berkeley National Laboratory. Complementing many scientific accomplishments, Berkeley Lab completed construction of four new research facilities: the General Purpose Laboratory, Chu Hall, Wang Hall and the Flexlab Building Efficiency Testbed. These state-of-the-art facilities allow for program growth and enhanced collaboration, in part by enabling programs to return to the Lab's Hill Campus from offsite locations. Detailed planning began for the new Integrative Genomics Building (IGB) that will house another major program currently located offsite. Existing site infrastructure was another key focus area. The Lab prioritized and increased investments in deferred maintenance in alignment with the Berkeley Lab Infrastructure Plan, which was developed under the leadership of the DOE Office of Science. With the expiration of American Recovery and Reinvestment Act (ARRA) funds, we completed the close-out of all of our 134 ARRA projects, recording total costs of \$331M over the FY2009-2015 period.

The key FY2015 financial challenge required a triple play to balance opportunity and risk-based investments with effective operational mission support, while remaining cost competitive. Berkeley Lab received a total of \$798M in new FY2015 funding, a 1.7 percent increase over FY2014. Total FY2015 spending was \$811M, an increase of 3.4 percent from FY2014 spending. As in FY2014, the indirect-funded Operations units worked with constrained budgets in order to yield more funding for strategic needs. Given limited funding growth, thoughtful tradeoffs were essential. A new Indirect Advisory Group (IAG) chartered by the Lab Director brought together scientific and operations leaders to jointly weigh tradeoffs and impacts. The IAG was instrumental in helping prioritize and shape our financial strategy, and we look forward to ongoing collaboration in FY2016. Berkeley Lab ended FY2015 with a small increase in funding, a slightly greater increase in costs, and a financial strategy informed by mission needs that effectively balanced strategic investments, essential operational support, and cost competitiveness.

OCFO Mission: High-value financial and procurement stewardship, services and strategic solutions that contribute to Berkeley Lab's scientific mission

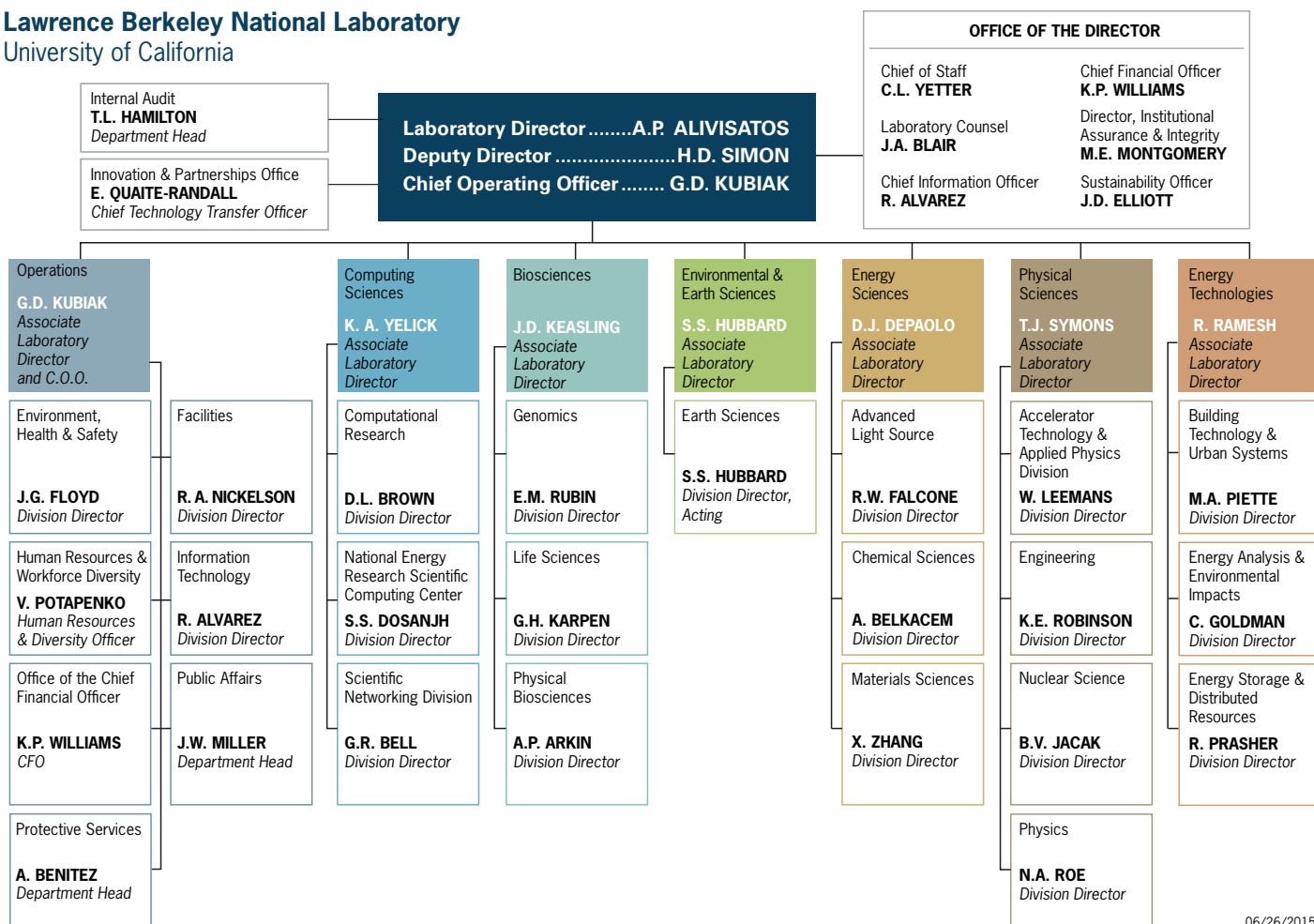
Within the Office of the Chief Financial Officer (OCFO), we focused on stabilizing and leveraging our new systems; expanding our electronic commerce program; completing reorganizations for improved service delivery; implementing innovative cost savings initiatives, and refreshing the OCFO Strategic Roadmap. The new financial management and electronic sponsored research administration systems (FMS and eSRA), launched at the beginning of FY2015, operated well and were largely stabilized by year-end, thanks to the collective efforts of everyone in the OCFO, and our colleagues in the Information Technology Division and across the Lab. Our Procurement organization led the successful implementation of a new electronic commerce platform, serving as the lead Department of

Energy Office of Science laboratory in the pilot. Working very closely with the University of California Office of National Laboratories (UCNL), we secured a reduction in Berkeley Lab's retirement plan costs for the next five years (FY2016 to FY2020) with no change to existing employee plan benefits. Within the OCFO, we made significant progress on our strategic planning process, engaging all OCFO managers and staff to harvest the best ideas for our future roadmap. All in all, FY2015 was a very successful year for Berkeley Lab and the OCFO!

Kim Williams
Chief Financial Officer

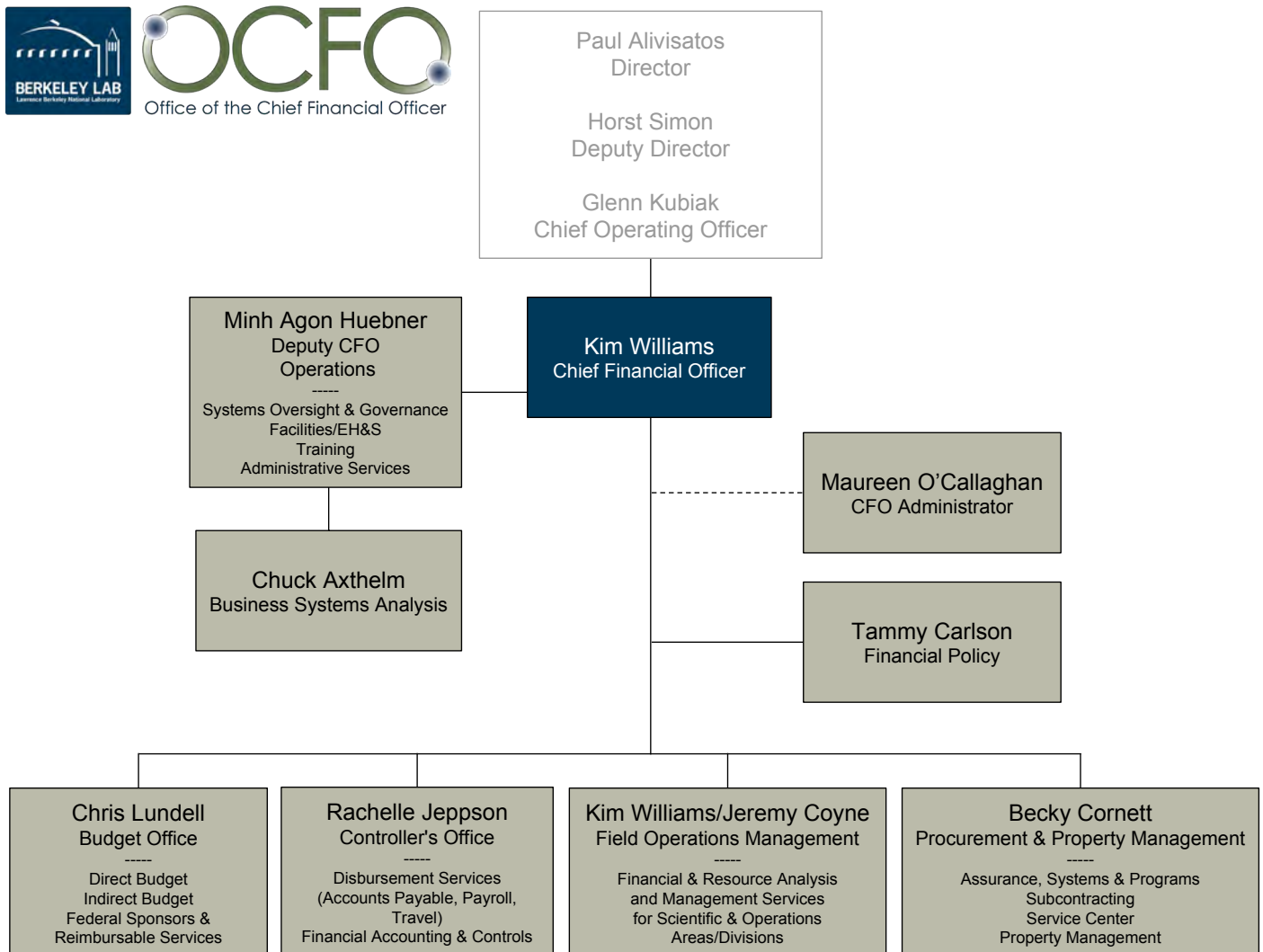
Lawrence Berkeley National Laboratory (LBNL), University of California

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06/26/2015

Office of the Chief Financial Officer



1. INSTITUTIONAL INFORMATION

Figure 1.1

Where Did Your Program Dollars Go in FY2015?

Expenses	DOE Operating Costs	DOE Integrated Contractors Costs	Construction and Equipment	Non-DOE
DIRECT				
Direct Labor				
Labor (a)	\$0.33	\$0.40	\$0.35	\$0.37
Contract Labor	\$0.00	\$0.00	\$0.00	\$0.00
Organization/ALD Burden (b)	\$0.05	\$0.07	\$0.06	\$0.08
Subtotal Direct Labor	\$0.38	\$0.47	\$0.42	\$0.45
OTHER DIRECT				
Services	\$0.20	\$0.13	\$0.24	\$0.10
Materials	\$0.11	\$0.06	\$0.17	\$0.05
Utilities	\$0.01	\$0.00	\$0.00	\$0.01
Other Expenses (c)	\$0.01	\$0.00	\$0.00	\$0.02
Recharges (b,d)	\$0.02	\$0.08	\$0.01	\$0.05
Travel	\$0.01	\$0.01	\$0.01	\$0.01
Subtotal Other Direct	\$0.36	\$0.29	\$0.43	\$0.24
Total Direct	\$0.75	\$0.76	\$0.84	\$0.68
INDIRECT				
Procurement	\$0.01	\$0.02	\$0.02	\$0.01
Travel	\$0.00	\$0.00	\$0.00	\$0.00
G&A (Other Inst.)	\$0.24	\$0.23	\$0.13	\$0.31
Total Indirect	\$0.25	\$0.24	\$0.16	\$0.32
TOTAL EXPENSES	\$1.00	\$1.00	\$1.00	\$1.00

Note: Minor variances may occur due to rounding.

(a) Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRA's and Campus Labor.

(b) Distributed activities used by direct funded programs.

(c) Includes misc. expenses (stipends, sales tax, freight, etc.).

(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

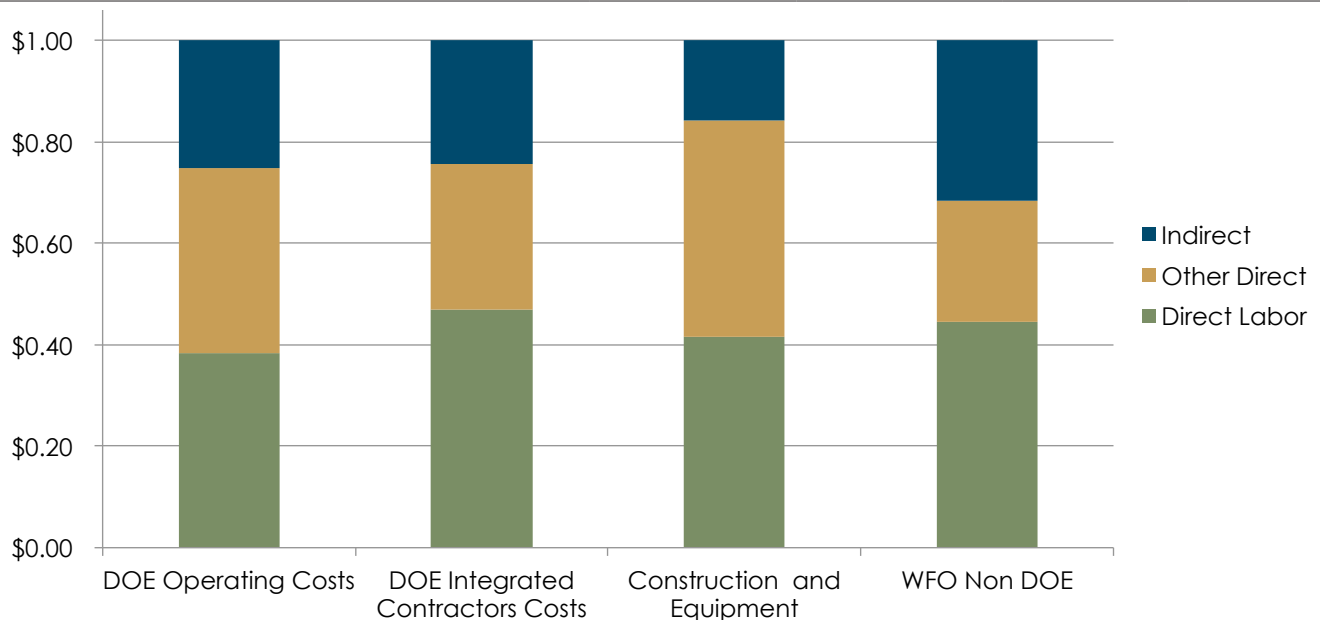


Table 1.1

Cost Trends by Expense Category, FY2011-FY2015 (\$M and % of Total)

Expenses	FY2011		FY2012		FY2013		FY2014		FY2015	
	\$M	%	\$M	%	\$M	%	\$M	%	\$M	%
DIRECT										
DIRECT LABOR										
Labor (a)	264.3	31.6%	271.5	33.1%	273.2	33.4%	274.8	35.0%	277.4	34.2%
Contract Labor	1.1	0.1%	0.8	0.1%	0.7	0.1%	0.4	0.0%	0.4	0.0%
Organization/ALD Burden (b)	40.0	4.8%	41.3	5.0%	42.4	5.2%	42.4	5.4%	42.8	5.3%
Subtotal Direct Labor	305.5	36.5%	313.6	38.3%	316.4	38.6%	317.6	40.5%	320.5	39.5%
OTHER DIRECT										
Services	213.6	25.5%	182.6	22.3%	183.3	22.4%	150.8	19.2%	150.2	18.5%
Materials	86.6	10.4%	88.9	10.9%	79.0	9.6%	71.1	9.1%	82.6	10.2%
Utilities	10.8	1.3%	8.4	1.0%	7.8	1.0%	9.2	1.2%	9.6	1.2%
Other Expenses (c)	5.6	0.7%	5.7	0.7%	3.4	0.4%	3.6	0.5%	5.7	0.7%
Recharges (b,d)	15.6	1.9%	20.3	2.5%	22.8	2.8%	23.4	3.0%	21.9	2.7%
Travel	12.9	1.5%	13.1	1.6%	12.5	1.5%	12.2	1.6%	11.8	1.5%
Subtotal Other Direct	345.1	41.3%	319.0	38.9%	308.8	37.7%	270.2	34.4%	281.8	34.7%
Total Direct	650.5	77.8%	632.6	77.2%	625.2	76.3%	587.8	74.9%	602.3	74.2%
INDIRECT										
Procurement	8.3	1.0%	8.6	1.1%	9.3	1.1%	8.5	1.1%	9.2	1.1%
Travel	1.6	0.2%	1.9	0.2%	1.4	0.2%	1.3	0.2%	0.9	0.1%
G&A (Other Inst.)	175.7	21.0%	176.0	21.5%	183.3	22.4%	187.3	23.9%	198.9	24.5%
Total Indirect	185.6	22.2%	186.5	22.8%	194.1	23.7%	197.1	25.1%	209.0	25.8%
TOTAL EXPENSES	836.1	100.0%	819.1	100.0%	819.2	100.0%	784.9	100.0%	811.3	100.0%

Note: Minor variances may occur due to rounding.

(a) Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRA's and Campus Labor.

(b) Distributed activities used by direct funded programs.

(c) Includes misc. expenses (stipends, sales tax, freight, etc.).

(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

Table 1.2

Direct Cost Trends by Division, FY2011 - FY2015 (\$K)

Division	FY2011	FY2012	FY2013	FY2014	FY2015
Accelerator Technology & Applied Physics	52,669	43,585	31,520	28,562	32,470
Advanced Light Source	63,453	70,357	74,850	69,647	60,233
Chemical Sciences	17,965	17,979	22,298	27,281	24,737
Computing Sciences (a)	143,316	125,749	139,536	134,324	
Computational Research (a)					32,171
National Energy Research Scientific Computing Center (a)					93,768
Scientific Networking (a)					41,189
Energy Technologies	102,721	107,006	103,779	107,543	106,834
Engineering	4,014	3,524	4,934	5,151	4,549
EH&S	2,504	3,360	1,518	51	34
Earth Sciences	55,550	55,399	57,319	58,125	64,683
Facilities	36,450	37,843	36,455	11,571	9,323
Genomics	6,360	5,951	7,419	7,036	7,963
Genomics - JGI	67,023	72,055	67,646	71,014	73,127
Information Technology	3,570	2,781	2,081	2,550	2,306
Life Sciences	59,118	49,384	41,123	34,852	30,132
Materials Sciences	76,397	81,551	78,309	78,034	72,860
Nuclear Science	37,753	38,809	37,193	32,397	33,439
Physical Biosciences	65,928	61,986	62,076	62,787	63,680
Physics	40,219	40,633	48,283	48,773	52,409
Protective Services	-	-	1,442	3,860	3,670
Lab Directorate/Other	991	1,088	1,394	1,310	1,595
Other	92	52	64	51	106
Division Total	836,095	819,093	819,242	784,917	811,276
(a) Computing Sciences broken out into CR, SN, and NERSC in FY2015 totalling 167,128 (\$K).					

Table 1.2a

Costs by Direct Funding Source by Division, FY2015 (\$K)

Division	FY2015						
	DOE Operating	DOE Integrated Contractors Costs	Federal	Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator Technology & Applied Physics	18,067	7,209	-	948	26,223	6,247	32,470
Advanced Light Source	53,892	623	6	1,536	56,056	4,177	60,233
Chemical Sciences	23,949	33	151	605	24,737	-	24,737
Computational Research (a)	29,272	430	2,199	270	32,171	-	32,171
National Energy Research Scientific Computing Center (a)	93,758	9	-	-	93,768	-	93,768
Scientific Networking (a)	38,682	2,428	26	53	41,189	-	41,189
Energy Technologies	80,840	1,051	10,436	13,623	105,950	884	106,834
Engineering	-	1,567	443	2,390	4,401	148	4,549
EH&S	34	-	-	-	34	-	34
Earth Sciences	48,624	3,988	1,955	9,358	63,925	758	64,683
Facilities	6,979	-	-	-	6,979	2,344	9,323
Genomics	10	-	5,062	2,891	7,963	-	7,963
Genomics - JGI	72,528	-	-	599	73,127	-	73,127
Information Technology	2,306	-	-	-	2,306	-	2,306
Life Sciences	4,707	151	21,329	3,944	30,132	-	30,132
Materials Sciences	62,823	593	2,969	6,476	72,860	0	72,860
Nuclear Science	22,799	247	7,836	1,291	32,173	1,266	33,439
Physical Biosciences	51,456	494	4,623	7,106	63,680	-	63,680
Physics	51,794	364	-	156	52,314	95	52,409
Protective Services	3,155	-	-	-	3,155	514	3,670
Lab Directorate/Other	1,595	-	-	-	1,595	-	1,595
Other	-	106	-	-	106	-	106
Division Total	667,268	19,292	57,036	51,245	794,842	16,435	811,276

Note: Minor variances may occur due to rounding.

(a) Computing Sciences broken out into CR, SN, and NERSC in FY2015 totalling 167,128 (\$K).

Table 1.2b

Costs by Direct Funding Source by Division, FY2014 (\$K)

Division	FY2014						
	DOE Operating	DOE Integrated Contractors Costs	Federal	Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	16,896	3,989	-	1,068	21,954	6,608	28,562
Advanced Light Source	59,289	269	-	1,222	60,781	8,866	69,647
Chemical Sciences	23,705	-	1,722	1,854	27,281	-	27,281
Computing Sciences	121,889	3,719	3,237	457	129,303	5,020	134,324
Environmental Energy Technologies	82,580	1,768	9,001	14,194	107,543	-	107,543
Engineering	163	2,307	531	2,139	5,140	11	5,151
EH&S	42	7	-	-	49	2	51
Earth Sciences	42,308	2,930	2,533	10,281	58,053	72	58,125
Facilities	4,058	-	-	-	4,058	7,512	11,571
Genomics	-	-	4,264	2,772	7,036	-	7,036
Genomics - JGI	70,474	-	-	539	71,014	-	71,014
Information Technology	2,422	-	-	128	2,550	-	2,550
Life Sciences	6,235	40	24,350	4,227	34,852	-	34,852
Materials Sciences	65,954	227	2,511	9,340	78,031	3	78,034
Nuclear Science	19,424	2,547	7,069	1,541	30,582	1,816	32,397
Physical Biosciences	49,828	640	5,507	5,739	61,715	1,072	62,787
Physics	48,105	385	(0)	282	48,773	-	48,773
Protective Services	3,345	-	-	-	3,345	516	3,860
Lab Directorate/Other	1,306	4	-	-	1,310	-	1,310
Other	-	51	-	-	51	-	51
Division Total	618,024	18,884	60,725	55,785	753,418	31,499	784,917
Note: Minor variances may occur due to rounding.							

Table 1.2c

Costs by Direct Funding Source by Division, FY2013 (\$K)

Division	FY2013						Total
	DOE Operating	DOE Integrated Contractors Costs	Federal	Non-Federal	Operating Subtotal	Capital and Equipment	
Accelerator & Fusion Research	19,768	1,869	731	541	22,909	8,611	31,520
Advanced Light Source	61,368	91	-	963	62,422	12,428	74,850
Chemical Sciences	18,867	94	1,438	1,898	22,298	-	22,298
Computing Sciences	129,882	841	1,825	1,387	133,935	5,601	139,536
Environmental Energy Technologies	74,587	2,365	9,142	17,571	103,666	114	103,779
Engineering	128	2,232	950	1,073	4,382	552	4,934
EH&S	1,480	-	-	-	1,480	39	1,518
Earth Sciences	42,882	3,353	1,869	9,214	57,319	-	57,319
Facilities	938	-	-	-	938	35,517	36,455
Genomics	1	-	4,894	2,525	7,419	-	7,419
Genomics - JGI	67,048	-	-	598	67,646	-	67,646
Information Technology	1,931	-	-	150	2,081	-	2,081
Life Sciences	8,081	-	28,444	4,578	41,104	19	41,123
Materials Sciences	64,502	514	2,193	8,927	76,136	2,173	78,309
Nuclear Science	20,283	5,311	6,650	2,009	34,253	2,940	37,193
Physical Biosciences	51,280	453	3,797	5,731	61,261	815	62,076
Physics	47,155	300	604	149	48,209	74	48,283
Protective Services	1,442	-	-	-	1,442	-	1,442
Lab Directorate/Other	1,345	49	-	-	1,394	-	1,394
Other	-	64	-	-	64	-	64
Division Total	612,968	17,537	62,538	57,315	750,359	68,882	819,242
Note: Minor variances may occur due to rounding.							

Table 1.2d

Costs by Direct Funding Source by Division, FY2012 (\$K)

Division	FY2012						
	DOE Operating	DOE Integrated Contractors Costs	Federal	Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	24,493	1,115	1,768	490	27,867	15,718	43,585
Advanced Light Source	58,387	69	-	1,010	59,466	10,892	70,357
Chemical Sciences	17,302	49	312	315	17,979	-	17,979
Computing Sciences	119,388	2,142	2,724	1,232	125,485	264	125,749
Environmental Energy Technologies	74,951	2,841	10,011	18,512	106,315	691	107,006
Engineering	618	1,155	982	770	3,524	-	3,524
EH&S	2,501	-	-	-	2,501	859	3,360
Earth Sciences	39,490	2,005	2,740	11,164	55,399	-	55,399
Facilities	6,101	-	-	-	6,101	31,742	37,843
Genomics	11	-	4,621	1,319	5,951	-	5,951
Genomics - JGI	70,069	-	4	676	70,749	1,306	72,055
Information Technology	2,636	-	-	145	2,781	-	2,781
Life Sciences	10,581	-	33,245	4,943	48,769	616	49,384
Materials Sciences	67,192	102	3,221	8,529	79,044	2,507	81,551
Nuclear Science	26,821	2,679	5,185	1,283	35,969	2,840	38,809
Physical Biosciences	50,639	259	3,656	6,555	61,109	876	61,986
Physics	37,739	910	217	398	39,264	1,369	40,633
Lab Directorate/Other	1,030	58	-	0	1,088	-	1,088
Other	-	52	-	-	52	-	52
Division Total	609,950	13,437	68,687	57,340	749,413	69,680	819,093
Note: Minor variances may occur due to rounding.							

Table 1.2e

Costs by Direct Funding Source by Division, FY2011 (\$K)

Division	FY2011						
	DOE Operating	DOE Integrated Contractors Costs	Federal	Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	21,528	1,055	1,781	977	25,341	27,328	52,669
Advanced Light Source	51,267	137	-	879	52,283	11,170	63,453
Chemical Sciences	15,068	120	2,042	45	17,275	691	17,965
Computing Sciences	133,114	2,236	2,593	2,365	140,308	3,007	143,316
Information Technology	2,400	-	-	154	2,554	1,016	3,570
Environmental Energy Technologies	78,124	2,940	7,202	13,763	102,029	693	102,721
Engineering	162	871	1,666	1,022	3,721	293	4,014
EH&S	2,504	-	-	-	2,504	-	2,504
Earth Sciences	39,342	1,962	2,754	10,565	54,622	928	55,550
Facilities	8,362	-	-	-	8,362	28,088	36,450
Genomics	134	-	4,673	1,553	6,360	-	6,360
Genomics - JGI	63,172	-	132	757	64,061	2,962	67,023
Life Sciences	10,656	-	38,878	9,110	58,644	474	59,118
Materials Sciences	59,974	72	2,775	6,441	69,261	7,137	76,397
Nuclear Science	22,392	1,826	3,680	937	28,834	8,919	37,753
Physical Biosciences	52,004	325	3,562	6,013	61,904	4,024	65,928
Physics	31,622	179	358	1,474	33,633	6,586	40,219
Lab Directorate/Other	978	13	-	0	991	-	991
Other	-	92	-	-	92	-	92
Division Total	592,803	11,828	72,095	56,054	732,780	103,315	836,095
Note: Minor variances may occur due to rounding.							

Table 1.3

Indirect Budget Costs by Division, FY2015 (\$K)

Division/ALD	Distributed Support Costs			Institutional Costs						Total (a)
	ALD/ Org. Burden	Service Centers (b)	Other (c)	LDRD	IGPP	G&A	Procurement Burden	Site Support	Travel Burden	
Accelerator Technology & Applied Physics	1,649	-	246	1,256	-	-	-	-	-	3,150
Advanced Light Source	2,387	-	-	2,300	-	-	-	-	-	4,688
Chief Financial Officer Organization	-	58	-	-	-	11,388	11,223	-	1,173	23,841
Chemical Sciences	1,912	-	-	1,492	-	-	-	-	-	3,404
Computational Research	4,015	1,327	-	3,187	-	-	-	-	-	8,529
Energy Technologies Area	7,427	2,869	-	1,970	-	-	-	-	-	12,266
Engineering	4,967	1,345	-	216	-	1,203	-	1,435	-	9,165
Environment/Health/Safety	-	-	-	-	-	-	-	21,792	-	21,792
Earth Sciences	4,310	52	-	2,717	-	-	-	5	-	7,083
Facilities	4,533	13,610	-	-	4,505	-	1,866	61,030	-	85,544
Genomics	586	-	-	314	-	-	-	-	-	900
Genomics - JGI	-	5,581	-	988	-	-	-	-	-	6,568
Information Technology	2,713	6,643	-	-	-	30,407	-	-	-	39,762
Lab Directorate	-	-	-	-	-	17,254	-	(81)	-	17,172
Life Sciences	3,607	725	-	2,251	-	-	-	-	-	6,583
Materials Sciences	3,899	272	-	2,152	-	-	-	-	-	6,323
National Energy Research Scientific Computing Center	1,792	-	-	391	-	-	-	-	-	2,183
Nuclear Science	1,838	(0)	-	1,325	-	-	-	-	-	3,162
ALD for Operations	-	3,982	-	-	-	15,944	-	-	-	19,927
Physical Biosciences	3,504	8,348	-	1,515	-	-	-	-	-	13,366
Physics	1,951	-	-	1,572	-	-	-	-	-	3,523
Protective Services	-	-	-	-	-	-	-	11,448	-	11,448
Scientific Networking	541	-	-	301	-	-	-	-	-	843
Other (d)	-	-	-	-	-	6,613	-	-	-	6,613
Biosciences ALD	929	-	-	-	-	-	-	-	-	929
Computing Sciences ALD	187	-	-	-	-	-	-	-	-	187
Energy Sciences ALD	531	-	-	-	-	-	-	-	-	531
Physical Sciences ALD	380	-	-	831	-	-	-	-	-	1,211
Division/ALD Total	53,657	44,812	246	24,777	4,505	82,809	13,089	95,628	1,173	320,696

Note: Minor variances may occur due to rounding.

(a) Summation of indirect budget costs provided only to show magnitude of dollars being managed and does not equate to total indirect costs since there are overlaps between indirect budgets. For example, some organization burden costs are included in G&A and Recharges.

(b) Service Centers includes recharge cost centers that default to B&R YN01 (project type OHRCH) only and GSRA pass through cost.

(c) Includes: Berkeley Lab's Office of Homeland Security (formerly known as Nuclear Non-Proliferation).

(d) Includes: UC Management Fee (General Laboratory).

Table 1.4

Average FTE Breakdown by Division, FY2015

Division	Direct Funded FTEs				Indirect Funded FTEs				Total FTEs
	DOE Direct Operating	Other Direct Operating (a)	Capital & Equipment	Direct Funded Total	ALD/ Org. Burden	Service Centers (b)	Operations Overhead (c)	Indirect Funded Total	
Accelerator Technology & Applied Physics	47.1	28.9	21.4	97.4	8.7	-	4.2	12.9	110.3
Advanced Light Source	151.3	5.0	12.9	169.2	11.1	-	8.1	19.2	188.4
Chief Financial Officer Organization	-	0.1	-	0.1	-	0.1	143.1	143.2	143.3
Chemical Sciences	88.9	3.3	-	92.2	10.9	-	8.4	19.4	111.6
Computational Research	81.8	5.3	-	87.1	19.0	-	11.9	30.9	118.0
Energy Technologies Area	216.7	66.8	-	283.5	35.9	20.4	6.5	62.8	346.3
Engineering	-	10.2	0.0	10.2	23.9	6.3	9.3	39.4	49.6
Environment/Health/Safety	0.0	-	-	0.0	-	-	93.9	93.9	93.9
Earth Sciences	125.8	43.3	0.4	169.5	19.0	0.2	10.8	30.0	199.5
Facilities	4.8	-	1.6	6.4	20.9	2.5	168.6	192.0	198.4
Genomics	-	22.4	-	22.4	3.6	-	1.2	4.8	27.2
Genomics - JGI	210.8	8.8	-	219.6	-	7.6	6.2	13.7	233.4
Information Technology	6.8	-	-	6.8	11.6	16.0	85.2	112.7	119.5
Lab Directorate	0.4	-	-	0.4	-	-	66.1	66.1	66.5
Life Sciences	17.3	78.7	-	96.0	24.3	4.5	10.9	39.6	135.6
Materials Sciences	221.0	37.1	0.0	258.1	20.7	1.3	10.7	32.6	290.7
National Energy Research Scientific Computing Center	71.7	0.0	-	71.7	12.8	-	1.3	14.1	85.8
Nuclear Science	65.9	25.4	2.0	93.3	10.6	0.0	7.3	17.9	111.1
ALD for Operations	2.5	-	-	2.5	-	6.9	82.2	89.1	91.6
Physical Biosciences	155.9	33.6	-	189.5	20.2	17.6	7.7	45.4	235.0
Physics	92.4	1.3	0.3	93.9	12.0	-	7.4	19.3	113.3
Protective Services	5.6	-	0.5	6.1	-	-	23.2	23.2	29.3
Scientific Networking	42.9	-	-	42.9	4.6	-	0.7	5.3	48.2
Biosciences ALD	-	-	-	-	2.7	-	-	2.7	2.7
Computing Sciences ALD	-	-	-	-	0.6	-	-	0.6	0.6
Earth and Environmental Sciences ALD	-	-	-	-	-	-	-	-	0.0
Energy Sciences ALD	0.0	-	-	0.0	2.7	-	-	2.7	2.7
Physical Sciences ALD	-	-	-	-	1.3	-	4.2	5.5	5.5
Division Total	1,609.8	370.2	39.0	2,019.0	277.0	83.3	779.0	1,139.3	3,158.3

Notes: Minor variances may occur due to rounding. FTEs are calculated based on translating labor hours charged into work-months and dividing by division's PLF factor. FTE calculation does not include Contract Labor or Campus Labor.

• Total FTE excludes 57.1 FTEs from non-contract projects (CSRUC, IJE, IPA, MLA, Royalties, and UC Construction Projects).

(a) Other Direct Operating includes DOE Integrated Contractors, Non-DOE Fellowships, and CRADAs.

(b) Service Centers includes recharge cost centers that default to B&R YN01 (project type OHRCH) only.

(c) Operations Overhead includes: G&A, LDRD, Site Support, Payroll Burden, Procurement, Travel, IGPP, S&S, and Berkeley Lab's Office of Homeland Security.

Table 1.5

Funds Held for Others Cost Trends, FY2011-FY2015 (\$K)

Funding Source	FY2011	FY2012	FY2013	FY2014	FY2015
Royalty	2,037	4,080	3,508	3,420	3,031
Contractor-Funded Institutional Supporting R&D & Gifts	2,615	2,948	3,164	3,381	3,826
Inter-Location Appointments (ILA)	3,033	3,689	2,198	3,215	4,093
UC Construction Projects	950	1,030	1,188	1,887	2,188
Other	58	78	79	109	192
Total	8,694	11,825	10,137	12,012	13,330

2. DIRECT FUNDING — DOE & REIMBURSABLE WORK

Total Laboratory Funding

Total Laboratory Funding - \$13.4M Increase

Total funding increased by \$13.4M or 1.7% to \$798M in FY2015. This change is primarily due to a \$17.7M increase in DOE Plant and Capital Equipment and was partially offset by a \$6.3M decrease in DOE Direct Operating funding. Other Direct Operating funding also contributed with a small increase of \$2.0M driven mainly by additional funding for Non-Federal Sponsors.

Type	FY2014 (\$M)	FY2015 (\$M)	Delta (\$M)
Non-ARRA	\$782.85	\$797.50	\$14.65
ARRA	\$1.47	\$0.21	(\$1.26)
Total	\$784.32	\$797.71	\$13.39

DOE Direct Operating, Plant & Capital Equipment Funding – \$11.3M Increase

Total funding increased by 1.7% during FY2015. The increase was driven by additional funding from the Office of Science (SC) in Operating, Capital Equipment and Construction. Some of this increase was offset by reduced funding levels in Environmental Management (EM) and Energy Efficiency and Renewable Energy (EERE).

Office of Science

Office of Science Operating, Plant & Capital Equipment funding increased \$19.7M or 3.6% in FY2015. The notable changes were:

- \$12.1M increase in Line-Item Construction funding for the new Integrative Genomics Building
- \$7.4M net increase in Advanced Scientific Computing Research (ASCR) Operating and Capital Equipment funding. The increase was mainly driven by an \$18.9M increase allocated to NERSC, ESnet, and Mathematical, Computational, and Computer Sciences Research projects, offset by an \$11.5M decrease in Design Forward as the FY2015 funding increment was provided by NNSA instead of the Office of Science
- \$0.2M net increase in all other Office of Science programs flat relative to FY2014.

Energy Efficiency and Renewable Energy

Energy Efficiency and Renewable Energy (EERE) Operating & Capital Equipment funding decreased \$7.6M or 10.9% in FY2015. The notable changes were:

- \$14.0M decrease in funds for Building Technologies, largely the Standards Program, and Clean Energy Research Center Program projects
- \$0.7 decrease in the funding received for Strategic Programs related to Strategic Priorities and Impact Analysis
- \$7.2M increase in Advanced Manufacturing specifically in the area of Next Generation Manufacturing R&D Projects. Most of the new funding was provided to the Cyclotron Road and Motor Systems Market Assessment projects

Other DOE

Funding from various other DOE programs in FY2015 decreased by \$0.8M or 1.8%. The notable changes were:

- \$18.0M decrease in Environmental Management due to a large increment of Old Town Demolition funding received in the prior year
- \$9.5M increase in National Nuclear Security Administration (NNSA) mostly due to the Design Forward program receiving FY2015 funds from NNSA rather than the Office of Science. The remaining increase was related to the start of the new DNN Photon Source project
- \$7.6M increase was spread across various projects in Fossil Energy, Policy and International Affairs, Energy Policy & Systems Analysis, and Health Safety and Security

Other Direct Operating Funding – \$2.0M Increase

Total Other Direct Operating funding increased \$2.0M or 1.6% in FY2015. The increase was driven by additional funding from Non-Federal Sponsors and Cooperative Research and Development Agreements, offset slightly by a drop in funding received from Federal Agencies. The notable changes were:

Total Laboratory Funding Continued

- \$3.1M increase in funding from Non-Federal Agencies mainly due to growth in funding from State and Local Governments and Non-Profit Organizations
- \$1.2M increase in funding for Cooperative Research and Development Agreements driven by additional funds for an agreement with Total Gas and Power USA and new funding from the California Clean Energy Fund (CALCEF)
- \$0.4M increase from agreements with other DOE Integrated Contractors
- \$2.6M decrease in funding from Federal Agencies mostly driven by a decrease in funding from both the National Institutes of Health and Other Federal Agencies, partially offset by an increase in funds from the Department of Defense

Data Sources for Tables in this section are as follows:

Data Type	Source
FY2015 Beginning Uncosted Obligations	Carryover Funding as provided in the Berkeley Lab final FY2014 Contract Modification
FY2015 Funds	Budget Authority as provided in the Berkeley Lab contract modification for the fiscal year
FY2015 Costs	LBNL published Year End Costs
FY2015 Ending Uncosted Obligations	The sum of FY2015 Beginning Uncosted, FY2015 Funds and FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include Bridge Funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is (\$-171K).

Total Laboratory Costs

Total Laboratory Costs - \$26.4M Increase

Total costs increased by \$26.4M or 3.4% to \$811M in FY2015. This change is primarily due to a \$50.6M increase in Non-ARRA Direct Operating costs. This increase was partially offset by a combined \$11.2M decrease in Non-ARRA DOE Plant & Capital Equipment costs and a \$7.2M drop in Non-ARRA Other Direct Operating costs. ARRA costs also contributed with a \$5.8M decrease mainly in DOE Operating and Line-Item Construction.

Type	FY2014 (\$M)	FY2015 (\$M)	Delta (\$M)
Non-ARRA	\$773.39	\$805.54	\$32.15
ARRA	\$11.53	\$5.74	(\$5.79)
Total	\$784.92	\$811.28	\$26.36

DOE Direct Operating, Plant & Capital Equipment Costs - \$34.2M Increase

Total DOE Direct costs increased by 5.3% in FY2015. This was due to a significant increase in costs in Operating Office of Science projects, partially offset by smaller decreases in costs in Office of Science Plant & Capital Equipment projects and Energy Efficiency and Renewable Energy (EERE) Line-Item Construction projects.

Office of Science

Office of Science Operating, Plant & Capital Equipment costs increased by \$32.5M or 6.1% from FY2014. The notable changes were:

- \$37.2M increase in Advanced Scientific Computing Research costs primarily due to continued investment in High Performance Computing, Next Generation Computing Systems, and the expansion of the Energy Sciences Network

Total Laboratory Costs Continued

- \$8.4M increase in Biological and Environmental Research costs primarily related to continued efforts of the Ameriflux and NGEE Tropics projects in Climate and Environmental Sciences and at the Joint Genome Institute (JGI)
- \$5.7M increase in High Energy Physics costs mainly in the area of Cosmic Frontier Experimental Physics for work done on the DESI and LZ Major Items of Equipment projects
- \$1.9M increase in the Nuclear Physics program mostly split between efforts on projects in the areas of Heavy-Ion Physics and Low Energy Physics
- \$12.8M decrease of Plant & Capital Equipment costs primarily due to a reduction in High Performance Computing capital equipment for NERSC, Accelerator Improvement Project costs supporting the Advanced Light Source (ALS), and a shift in effort from the General Purpose Lab construction project for Seismic Phase 2 to the early phases of construction of the new Integrative Genomics Building
- \$7.9M decrease in Basic Energy Sciences mostly due to a reduction in Operating costs for continuation of projects at the Advanced Light Source (ALS)

Office of Energy Efficiency and Renewable Energy

Energy Efficiency and Renewable Energy (EERE) Operating, Plant & Capital Equipment costs decreased \$4.7M or 5.9%. The notable changes were:

- \$3.8M decrease in EERE ARRA-funded Construction due to the completion of the FLEXLAB facility
- \$2.6M decrease in Vehicle Technologies, primarily related to continued efforts on Batteries and Electric Drive Technology projects
- \$1.8M increase in operating costs spread between work done on projects in the areas of Advanced Manufacturing and Geothermal Technologies

Other DOE

Other DOE Direct Operating, Plant & Capital Equipment costs increased \$6.4M or 17.3%. The notable changes were:

- \$2.5M increase in Operating costs in Environmental Management primarily due to the continuation of the Old Town Demolition project
- \$2.6M increase in Operating and Capital Equipment cost related to the National Nuclear Security Administration driven by the start of the new DNN Photon Source project
- \$1.4M increase in Operating costs for Fossil Energy primarily in the areas of Cross Cutting Research and Carbon Storage

Other Direct Operating Costs - \$7.8M Decrease

Other Direct Operating costs decreased by \$7.8M or 5.8% in FY2015. The notable changes were:

- \$5.6M decrease in Non-Federal Sponsors due to a decrease in costs in projects funded by State and Local Governments and Non-Profit Organizations
- \$3.7M decrease in Federal Agencies mainly caused by a drop in spending from National Institutes of Health agreements
- \$1.0M increase in costs for Cooperative Research and Development Agreements
- \$0.4M increase in DOE Integrated Contractor costs

Table 2.1

Berkeley Lab Funding Trends (BA) by Funding Source (\$K)

Funding Source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015 (a)
DOE DIRECT OPERATING					
Administrator for National Nuclear Security Administration	6,204	7,009	14,399	7,187	14,130
Advanced Research Projects Agency - Energy	-	2,993	4,131	993	1,779
Assistant Secretary for Energy Efficiency and Renewable Energy	66,410	65,678	78,423	69,471	61,016
Assistant Secretary for Environmental Management	2,741	1,371	20,523	18,824	863
Assistant Secretary for Fossil Energy	7,297	8,316	5,215	6,384	7,799
Assistant Secretary for Nuclear Energy	3,104	2,877	2,930	3,040	2,414
Assistant Secretary for Policy and International Affairs	108	50	200	425	2,958
Loan Programs Office	-	-	15	(0)	-
Office of Civilian Radioactive Waste Management	(2)	-	-	-	-
Office of Electricity Delivery and Energy Reliability	7,998	8,743	8,485	7,873	8,106
Office of Energy and Threat	-	109	138	177	158
Office of Energy Policy & Systems Analysis				200	2,066
Office of Health Safety and Security	20	57	34	48	1,540
Office of Indian Energy Policy & Programs				229	-
Office of Legacy Management	-	-	150	-	195
Office of Management	1	-	-	(1)	-
Office of Science	475,423	497,738	506,725	527,907	533,386
Office of the Chief Information Officer	(137)	-	-	-	-
Total DOE Direct Operating	569,167	594,941	641,370	642,758	636,409
OTHER DIRECT OPERATING (b)					
Federal Agencies	68,960	56,401	62,667	55,953	53,330
Non-Federal Sponsors (c)	50,240	53,460	57,737	51,967	55,066
Cooperative Research and Development Agreements	1,220	417	1,192	1,019	2,175
DOE Integrated Contractors (d)	11,828	13,437	17,537	18,884	19,292
Total Other Direct Operating	132,249	123,716	139,132	127,824	129,864
TOTAL OPERATING	701,416	718,657	780,502	770,582	766,274

Note: Minor variances may occur due to rounding.

Data Source: Budget Authority as provided in the Berkeley Lab final contract modification for the fiscal year.

(a) Includes funding deobligations for American Recovery and Reinvestment Act (ARRA) in FY2015:

The FY2015 ARRA funds were categorized as: Operating (\$290K) and Plant and Equipment (\$-1K). See Table 3.1 for details.

(b) FY2011, FY2012 and FY2013 ARRA National Institutes of Health (NIH) and National Science Foundation (NSF) awards were obligated to Berkeley Lab by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. For reporting consistency with prior and future years, all NIH and NSF funding and cost data is reflected under the Work for Other Federal Agencies category.

(c) Includes both funding and deobligations for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.

(d) Total funding for Integrated Contractors is assumed to be equal to cost incurred.

continued...

Table 2.1

Berkeley Lab Funding Trends (BA) by Funding Source (\$K) Continued

Funding Source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015 (a)
DOE PLANT AND CAPITAL EQUIPMENT					
Basic Equipment/Major Items of Equipment					
Administrator for National Nuclear Security Administration	77	-	(0)	-	2,570
Assistant Secretary for Energy Efficiency and Renewable Energy	1,200	-	-	(0)	900
Office of Science	34,904	10,612	11,081	12,514	14,076
Total DOE Capital Equipment	36,181	10,612	11,080	12,514	17,546
GENERAL PLANT PROJECTS					
Office of Science	1,032	-	1,250	(13)	(0)
ACCELERATOR IMPROVEMENT PROJECTS					
Office of Science	2,300	3,000	550	1,250	1,800
LINE-ITEM CONSTRUCTION					
Assistant Secretary for Energy Efficiency and Renewable Energy	-	-	-	-	(0)
Office of Science	20,063	12,972	(2)	(8)	12,090
Total DOE Plant	23,395	15,972	1,798	1,228	13,890
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	59,576	26,584	12,878	13,742	31,436
TOTAL LABORATORY	760,992	745,241	793,380	784,324	797,710
Note: Minor variances may occur due to rounding. Data Source: Budget Authority as provided in the Berkeley Lab final contract modification for the fiscal year. (a) Includes funding deobligations for American Recovery and Reinvestment Act (ARRA) in FY2015: The FY2015 ARRA funds were categorized as: Operating (\$290K) and Plant and Equipment (\$-1K). See Table 3.1 for details.					

Table 2.2

Berkeley Lab Cost Trends by Funding Source (\$K)

Funding Source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015 (a)
DOE DIRECT OPERATING					
Administrator for National Nuclear Security Administration	6,105	7,026	9,310	9,886	11,764
Advanced Research Projects Agency - Energy	1,966	2,517	3,651	3,074	1,609
Assistant Secretary for Energy Efficiency and Renewable Energy	78,939	71,739	68,584	75,239	73,493
Assistant Secretary for Environmental Management	3,251	1,842	2,138	5,327	7,828
Assistant Secretary for Fossil Energy	11,182	9,624	9,817	6,586	8,020
Assistant Secretary for Nuclear Energy	2,733	3,091	3,072	2,574	2,359
Assistant Secretary for Policy and International Affairs	685	98	76	330	189
Loan Programs Office	-	-	15	-	-
Office of Civilian Radioactive Waste Management	4	-	-	-	-
Office of Electricity Delivery and Energy Reliability	6,676	8,470	7,479	8,517	9,635
Office of Energy and Threat	158	132	164	168	174
Office of Energy Policy & Systems Analysis				200	419
Office of Health Safety and Security	31	37	40	35	229
Office of Indian Energy Policy & Programs	-	-	-	-	128
Office of Legacy Management	-	-	-	123	119
Office of Management	-	-	-	-	-
Office of Science	481,048	505,375	508,623	505,965	551,302
Office of the Chief Information Officer	24	-	-		-
Total DOE Direct Operating	592,803	609,950	612,968	618,024	667,268
OTHER DIRECT OPERATING					
Federal Agencies	72,095	68,687	62,538	60,725	57,036
Non-Federal Sponsors (b)	55,558	56,360	56,111	54,690	49,131
Cooperative Research and Development Agreements	496	980	1,204	1,095	2,114
DOE Integrated Contractors	11,828	13,437	17,537	18,884	19,292
Total Other Direct Operating	139,977	139,464	137,391	135,394	127,573
TOTAL OPERATING	732,780	749,413	750,359	753,418	794,841
Note: Minor variances may occur due to rounding. Data Source: Berkeley Lab published Fiscal Year End Costs. (a) Includes costs for American Recovery and Reinvestment Act (ARRA) in FY2015: The FY2015 ARRA costs were categorized as: Operating (\$5,568K) and Plant and Equipment (\$170K). See Table 3.2 for details. (b) Includes costs for Non-Federal Sponsors who are precluded by law from paying an advance under the WN program.					

continued...

Table 2.2

Berkeley Lab Cost Trends by Funding Source (\$K) Continued

Funding Source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015 (a)
DOE PLANT AND CAPITAL EQUIPMENT					
Basic Equipment/Major Items of Equipment					
Administrator for National Nuclear Security Administration	140	-	-	-	716
Assistant Secretary for Energy Efficiency and Renewable Energy	5,372	1,567	742	-	884
Office of Science	64,165	28,306	24,773	20,004	9,855
Total DOE Capital Equipment	69,677	29,874	25,515	20,004	11,456
GENERAL PLANT PROJECTS					
Office of Science	454	3,220	1,769	552	514
ACCELERATOR IMPROVEMENT PROJECTS					
Office of Science	5,444	6,985	6,622	3,430	2,120
LINE-ITEM CONSTRUCTION					
Assistant Secretary for Energy Efficiency and Renewable Energy	1,151	2,036	8,262	3,991	170
Office of Science	26,589	27,565	26,715	3,521	2,174
Total DOE Plant	33,638	39,807	43,368	11,495	4,979
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	103,315	69,680	68,882	31,499	16,434
TOTAL LABORATORY (c)	836,095	819,093	819,242	784,917	811,276
Note: Minor variances may occur due to rounding. Data Source: Berkeley Lab published Fiscal Year End Costs. (a) Includes costs for American Recovery and Reinvestment Act (ARRA) in FY2015: The FY2015 ARRA costs were categorized as: Operating (\$5,568K) and Plant and Equipment (\$170K). See Table 3.2 for details. (c) FY2015 costs do not include various adjustments. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.					

Table 2.3

Berkeley Lab Funding and Costs by Funding Source (\$K)

Funding and Cost by Source (\$K)	FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
DOE DIRECT OPERATING				
Administrator for National Nuclear Security Administration	5,453	14,130	11,764	7,819
Advanced Research Projects Agency - Energy	2,191	1,779	1,609	2,362
Assistant Secretary for Electricity Delivery & Energy Reliability	11,955	8,106	9,635	10,426
Assistant Secretary for Energy Efficiency & Renewable Energy	60,523	61,016	73,493	48,041
Assistant Secretary for Environmental Management	32,662	863	7,828	25,697
Assistant Secretary for Fossil Energy	9,814	7,799	8,020	9,590
Assistant Secretary for Nuclear Energy	1,027	2,414	2,359	1,082
Assistant Secretary for Policy & International Affairs	298	2,958	189	3,066
Loan Programs Office	-	-	-	-
Office of Energy & Threat	64	158	174	48
Office of Energy Policy & Systems Analysis	39	2,066	419	1,686
Office of Health, Safety & Security	34	1,540	229	1,345
Office of Indian Energy Policy & Programs	229	-	128	101
Office of Legacy Management	27	195	119	104
Office of Management	-	-	-	-
Office of Science	245,285	533,386	551,302	227,308
Total DOE Direct Operating	369,601	636,409	667,268	338,673
OTHER DIRECT OPERATING				
Federal Agencies	48,727	53,330	57,036	45,658
Non-Federal Sponsors (a)	26,191	55,066	49,131	32,627
Cooperative Research and Development Agreements	495	2,175	2,114	588
DOE Integrated Contractors (b)	-	19,292	19,292	-
Total Other Direct Operating (c)	75,412	129,864	127,573	78,873
TOTAL OPERATING	445,013	766,274	794,841	417,546

Note: Minor variances may occur due to rounding.

- (a) Includes funding and deobligations for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.
- (b) Total funding for Integrated Contractors is assumed to be equal to cost incurred.
- (c) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.

continued...

Table 2.3

Berkeley Lab Funding and Costs by Funding Source (\$K) Continued

Funding and Cost by Source (\$K)	FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
DOE PLANT AND EQUIPMENT				
BASIC EQUIPMENT/MAJOR ITEMS OF EQUIPMENT				
Administrator for National Nuclear Security Administration	-	2,570	716	1,854
Assistant Secretary for Energy Efficiency & Renewable Energy	-	900	884	16
Office of Science	18,313	14,076	9,855	22,533
Total Capital Equipment	18,313	17,546	11,456	24,403
GENERAL PLANT PROJECTS				
Office of Science	584	(0)	514	70
ACCELERATOR IMPROVEMENT PROJECTS				
Office of Science	2,645	1,800	2,120	2,324
LINE-ITEM CONSTRUCTION				
Assistant Secretary for Energy Efficiency & Renewable Energy	170	(0)	170	-
Office of Science	177	12,090	2,174	10,093
Total DOE Plant	3,576	13,890	4,979	12,488
TOTAL DOE PLANT AND CAPITAL EQUIPMENT				
	21,889	31,436	16,434	36,890
TOTAL LABORATORY (d)				
	466,902	797,710	811,276	454,436
Note: Minor variances may occur due to rounding. (d) Includes American Recovery and Reinvestment Act (ARRA) in FY2015: The FY2015 ARRA funds were categorized as: Operating (\$290K) and Plant and Equipment (\$-1K). See Table 3.1 for details. The FY2015 ARRA costs were categorized as: Operating (\$5,568K) and Plant and Equipment -\$170K. See Table 3.2 for details.				

Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K)

ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
DP09	Readiness In Technical Base and Facilities (RTBF)	-	500	61	439
DP15	Advanced Simulation and Computing Campaign	959	5,000	2,018	3,941
DP40	Nuclear Weapons Incident Response	12	20	30	1
MO01	Cyber Security	2,624	859	2,061	1,422
NN20	Nonproliferation And Verification Research and Development	1,527	7,747	7,263	2,011
NN40	Nonproliferation and International Security (NIS)	332	5	332	5
Total Operating		5,453	14,130	11,764	7,819
CAPITAL EQUIPMENT					
NN20	Nonproliferation And Verification Research and Development	-	2,570	716	1,854
Total Capital Equipment (a)		0	2,570	716	1,854
TOTAL ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION		5,453	16,701	12,481	9,673
Note: Minor variances may occur due to rounding. (a) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

OFFICE OF SCIENCE		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
AT10	SciDAC	-	50	6	44
AT40	Discovery Plasma Science	-	1,082	138	944
AT50	FES - Science	679	-	567	113
FS10	Safeguards and Security - Science	1,799	6,033	5,411	2,421
KA11	Proton Accelerator-Based Physics	38	-	-	38
KA14	Theoretical Physics	350	(0)	331	19
KA15	Advanced Technology R&D (prior to restructure)	1	(0)	-	1
KA21	Energy Frontier Experimental Physics	4,914	7,961	8,781	4,095
KA22	Intensity Frontier Experimental Physics	3,680	18,725	18,883	3,522
KA23	Cosmic Frontier Experimental Physics	5,990	13,829	15,164	4,655
KA24	Theoretical and Computational Physics	3,049	4,965	4,908	3,106
KA25	Advanced Technology R&D	5,763	17,819	18,779	4,803
KA26	Accelerator Stewardship	30	509	161	378
KB01	Medium Energy Physics	294	544	702	136
KB02	Heavy-Ion Physics	2,490	4,775	6,540	696
KB03	Nuclear Theory	1,589	2,572	2,846	1,314
KB04	Low Energy Physics	3,840	9,262	9,592	3,510
KC02	Materials Sciences and Engineering	11,594	25,966	27,120	10,440
KC03	Chemical Sciences, Geosciences, and Biosciences	27,663	37,274	44,176	20,761
KC04	Scientific User Facilities	16,228	87,885	81,440	22,659
KJ04	Mathematical, Computational, and Computer Sciences Research	35,246	37,336	28,485	44,096
KJ05	High Performance Computing and Network Facilities	68,255	108,395	127,900	48,741
KL10	Internships and Visiting Faculty Activities at DOE Labs	687	1,702	1,423	966
KP12	Climate Change Research	69	-	12	57
KP15	Biological Research	41	-	(1)	41
KP16	Biological Systems Science	31,770	118,493	121,934	28,321
KP17	Climate and Environmental Sciences	19,229	28,208	26,006	21,430
Total Operating (a)		245,285	533,386	551,302	227,308

Note: Minor variances may occur due to rounding.

(a) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

OFFICE OF SCIENCE		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
CAPITAL EQUIPMENT					
AT40	Discovery Plasma Science	-	950	629	321
AT50	FES - Science	750	-	743	7
KA11	Proton Accelerator-Based Physics	115	-	115	-
KA15	Advanced Technology R&D (prior to restructure)	23	(1)	-	23
KA22	Intensity Frontier Experimental Physics	728	-	34	695
KA23	Cosmic Frontier Experimental Physics	-	1,000	95	905
KA25	Advanced Technology R&D	733	2,170	2,424	479
KA26	Accelerator Stewardship	-	257	138	119
KB04	Low Energy Physics	3,685	1,309	1,266	3,728
KC02	Materials Sciences and Engineering	251	100	280	71
KC03	Chemical Sciences, Geosciences, and Biosciences	718	-	706	12
KC04	Scientific User Facilities	5,309	3,994	3,374	5,929
KJ05	High Performance Computing and Network Facilities	1,289	3,300	-	4,589
KP16	Biological Systems Science	4,711	997	51	5,657
Total Capital Equipment (a)		18,313	14,076	9,855	22,533
GENERAL PLANT PROJECTS					
FS10	Safeguards and Security - Science	584	-	514	70
Total General Plant Projects (a)		584	0	514	70
ACCELERATOR IMPROVEMENT PROJECTS					
KC04	Scientific User Facilities	2,645	1,800	2,120	2,324
Total Accelerator Improvement Projects (a)		2,645	1,800	2,120	2,324
LINE-ITEM CONSTRUCTION					
39KG	Science Laboratories Infrastructure	177	12,090	2,174	10,093
Total Line-Item Construction (a)		177	12,090	2,174	10,093
TOTAL DOE PLANT		3,406	13,890	4,809	12,488
TOTAL OFFICE OF SCIENCE		267,004	561,352	565,966	262,329
Note: Minor variances may occur due to rounding. (a) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
BM01	Biomass/Biofuels Energy Systems	4,652	5,633	4,265	6,021
BR01	EE Departmental Admin, Rec Act	1,045	(189)	856	-
BT01	Residential Buildings Integration	1,097	2,064	1,979	1,183
BT02	Commercial Buildings Integration	10,451	5,998	11,606	4,846
BT03	Emerging Technologies	4,741	1,816	5,591	964
BT04	Equipment and Buildings Standards	13,472	8,806	16,435	5,835
BT08	EE Building Systems Design Energy Innovation Hubs	16	100	16	100
EB21	Solar Energy	28	-	10	18
EB25	Wind Energy Systems	7	-	6	0
EB36	Facilities and Infrastructure	5	(0)	5	-
EB40	Geothermal Technologies	965	-	526	439
EB42	Hydrogen Research R&D	21	-	14	7
EB51	Energy Efficiency and Renewable Energy Program Direction	390	(60)	330	-
EB57	Energy Efficiency and Renewable Energy (EERE) Program Support	46	(0)	16	30
ED19	Industries Of The Future (Crosscutting)	29	(0)	2	27
ED20	Industrial Technical Assistance	1,348	3,542	2,369	2,521
ED27	Next Generation Manufacturing R&D Projects	543	7,120	740	6,923
ED28	Advanced Manufacturing R&D Facilities	157	-	144	13
EL17	Federal Energy Management Program	2,995	2,556	3,920	1,630
GT01	Enhanced Geothermal Systems	5,153	938	2,606	3,485
GT02	Low Temperature and Co-produced Resource	500	240	237	503
GT03	Innovative Exploration Technologies	992	2,554	1,449	2,098
GT04	Systems Analysis	-	325	-	325
HT01	Fuel Cell Systems R&D	912	1,564	2,035	441
HT02	Hydrogen Fuel R&D	885	1,892	808	1,969
HT07	Manufacturing R&D	129	150	202	77
PG03	Strategic Priorities and Impact Analysis	1,350	692	1,205	837
PG04	Technology-to-Market	-	425	132	293
PG05	International	728	240	740	229
SL01	Concentrating Solar Power	21	38	4	55
SL02	Photovoltaic R&D	338	133	414	57
SL03	Systems Integration	-	388	-	388
SL04	Balance of Systems Soft Cost Reduction	855	1,751	1,330	1,276
SL05	Innovations in Manufacturing Competitiveness	-	700	213	487
VT02	Outreach, Deployment & Analysis	110	220	107	223
VT04	Vehicle Technologies	-	15	15	0
VT05	Materials Technology	99	277	269	107
VT11	Hybrid Electric Systems	3	-	-	3

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
VT12	Batteries and Electric Drive Technology	5,073	8,740	10,824	2,990
VT13	Vehicle & Systems Simulation and Testing	147	94	88	153
WC01	Water Power Program	-	95	61	34
WI03	State Energy Program (Grants)	763	771	728	806
WI04	Other State Energy Activities	1	-	0	1
WI06	Intergovernmental Activities	70	150	92	129
WI07	Weatherization Assistance Program	83	125	195	13
WW02	Technology Viability	198	331	454	75
WW03	Technology Application	102	783	454	431
Total Operating		60,523	61,016	73,493	48,041
CAPITAL EQUIPMENT					
BT04	Equipment and Buildings Standards	-	900	884	16
Total Capital Equipment (a)		0	900	884	16
LINE-ITEM CONSTRUCTION					
39EB	Facilities and Infrastructure	170	(0)	170	-
Total Line-Item Construction (a)		170	(0)	170	0
TOTAL DOE PLANT		170	(0)	170	0
TOTAL ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		60,693	61,916	74,547	48,057
Note: Minor variances may occur due to rounding. (a) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
TD50	Research and Development	618	(0)	565	53
TD54	Operations and Analysis	161	-	159	2
TE11	Clean Energy Transmission & Reliability	5,275	3,895	4,481	4,689
TE12	Smart Grid Research and Development	1,762	1,465	1,491	1,736
TE14	Energy Storage	250	50	300	1
TF00	National Electricity Delivery	3,889	2,646	2,591	3,943
TG01	Infrastructure Security & Energy Restoration	-	50	48	2
Total Operating		11,955	8,106	9,635	10,426
TOTAL OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY		11,955	8,106	9,635	10,426
Note: Minor variances may occur due to rounding.					
ASSISTANT SECRETARY FOR FOSSIL ENERGY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
AA15	Advanced Research	4	-	-	4
AA20	Central Systems	34	-	20	14
AA25	Fuel Cells	3	-	-	3
AA30	Sequestration	651	(5)	354	292
AA60	Advanced Energy Systems	0	-	-	0
AA65	Carbon Capture	33	50	33	50
AA70	Carbon Storage	4,718	2,303	3,562	3,456
AA90	Cross Cutting Research	3,180	4,601	3,052	4,730
AB05	Natural Gas Technologies	794	850	862	782
AC10	Oil Technology	142	-	61	80
AD20	Contractual Services And Supplies	136	-	65	72
AY05	Clean Coal Power Initiative	21	-	8	13
BD00	Unconventional Fossil Energy Technologies	93	-	-	93
CE03	Center for Zero Emissions Technology - Montana State	3	-	3	0
CE47	Innovations for Low-Cost Gasification Systems	1	-	-	1
CE54	Design and Test of an Advanced SOFC Generator in PA	0	-	-	0
Total Operating		9,814	7,799	8,020	9,590
TOTAL ASSISTANT SECRETARY FOR FOSSIL ENERGY		9,814	7,799	8,020	9,590
Note: Minor variances may occur due to rounding.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
EY40	Defense Site Acceleration Completion - Technology Development	268	760	796	232
EY80	Defense Environmental Cleanup - Program Support	1	40	25	16
EZ50	Non-Defense Environmental Cleanup - Small Sites	32,393	63	7,007	25,449
Total Operating		32,662	863	7,828	25,697
TOTAL ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT		32,662	863	7,828	25,697
Note: Minor variances may occur due to rounding.					
OFFICE OF HEALTH SAFETY AND SECURITY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
HQ10	Employee Compensation	34	40	40	34
HU10	Corporate Safety Program	-	1,500	189	1,311
Total Operating		34	1,540	229	1,345
TOTAL OFFICE OF HEALTH SAFETY AND SECURITY		34	1,540	229	1,345
Note: Minor variances may occur due to rounding.					
ASSISTANT SECRETARY FOR NUCLEAR ENERGY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
AF58	Fuel Cycle Research and Development (FCR&D)	1,008	2,285	2,247	1,045
DF01	First Repository	18	-	-	18
NT01	Crosscutting Technology Development	1	(1)	-	-
NT05	Nuclear Energy Advanced Modeling and Simulation	1	100	82	19
RC04	Advanced Reactor Concepts (ARC)	-	30	30	0
Total Operating		1,027	2,414	2,359	1,082
TOTAL ASSISTANT SECRETARY FOR NUCLEAR ENERGY		1,027	2,414	2,359	1,082
Note: Minor variances may occur due to rounding.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

OFFICE OF INDIAN ENERGY POLICY & PROGRAMS		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
IP10	Salaries & Benefits	229	-	128	101
Total Operating		229	0	128	101
TOTAL OFFICE OF INDIAN ENERGY POLICY & PROGRAMS		229	0	128	101
Note: Minor variances may occur due to rounding.					
OFFICE OF LEGACY MANAGEMENT		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
LM01	Legacy Management Activities - Defense	27	195	119	103
Total Operating		27	195	119	103
OFFICE OF ENERGY AND THREAT		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
GD50	Cyber	64	158	174	48
Total Operating		64	158	174	48
TOTAL OFFICE OF ENERGY AND THREAT		64	158	174	48
Note: Minor variances may occur due to rounding.					
ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
PE04	Office Of Environmental Analysis	77	-	11	66
PE06	Climate Change Technology Program-International	220	(0)	178	42
WA22	Office of International Affairs - Program Direction	0	2,958	0	2,958
Total Operating		298	2,958	189	3,066
TOTAL ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS		298	2,958	189	3,066
Note: Minor variances may occur due to rounding.					

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Table 2.4

FY2015 Funding and Costs by DOE Programs (\$K) Continued

ADVANCED RESEARCH PROJECTS AGENCY - ENERGY		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
CJ01	ARPA-E Projects	2,191	1,759	1,605	2,344
CJ02	Program Direction	-	20	3	17
Total Operating		2,191	1,779	1,609	2,361
TOTAL ADVANCED RESEARCH PROJECTS AGENCY - ENERGY					
		2,191	1,779	1,609	2,361
Note: Minor variances may occur due to rounding.					
OFFICE OF ENERGY POLICY & SYSTEMS ANALYSIS		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING					
EP01	EPSA Program Direction	-	2,066	382	1,684
PE01	Policy, Planning and Analysis	39	-	37	3
Total Operating		39	2,066	419	1,686
All DOE Programs (\$K)		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
TOTAL OPERATING					
		369,601	636,409	667,268	338,673
TOTAL CAPITAL EQUIPMENT					
		18,313	17,546	11,456	24,403
TOTAL GENERAL PLANT PROJECTS					
		584	-	514	70
TOTAL ACCELERATOR IMPROVEMENT PROJECTS					
		2,645	1,800	2,120	2,324
TOTAL LINE ITEM CONSTRUCTION					
		347	12,090	2,344	10,093
TOTAL FUNDING AND COSTS					
		391,490	667,846	683,702	375,564
Note: Minor variances may occur due to rounding.					

Table 2.5

FY2015 Funding and Costs by Other Direct Operating Source (\$K)

Funding Source	FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
REIMBURSABLE WORK				
Federal Agencies				
Department Of Agriculture	297	-	205	98
Department Of Defense	9,564	19,393	15,255	13,963
Department of Homeland Security - Borders and Transportation	385	329	324	391
Department of Homeland Security - Domestic Nuclear Detection Office	770	2,605	2,213	1,170
Department of Homeland Security - Science and Technology	783	2,050	1,828	1,005
Department Of Housing And Urban Development	0	194	134	64
Department Of State - Other	549	1,149	346	2,734
Department Of The Interior	682	422	870	259
Environmental Protection Agency	600	641	779	484
National Aeronautics And Space Administration	2,475	2,291	3,125	1,732
National Institutes of Health	26,867	21,978	26,662	22,208
National Science Foundation	223	-	42	182
Nuclear Regulatory Commission	389	406	442	366
Other Federal Agencies	4,964	1,874	4,637	992
Other Federal Agencies - Defense-Related Activities	0	-	-	0
Other Federal Agencies - Energy-Related Activities	177	-	175	8
Total Federal Agencies	48,727	53,330	57,036	45,658
Non-Federal Agencies				
Foreign Governments (a)	1,015	(90)	688	257
Domestic and Foreign Industry	8,389	19,597	20,140	8,757
State and Local Governments & NPO's (a)	10,757	25,284	16,972	18,671
Universities and Institutes (a)	6,029	10,275	11,331	4,942
Total Non-Federal Agencies	26,191	55,066	49,131	32,627
Cooperative Research and Development Agreements				
CRADA - Other	265	1,454	1,258	502
CRADA - Small Business	230	721	856	86
Total Cooperative Research and Development Agreements	495	2,175	2,114	588
TOTAL REIMBURSABLE WORK	75,412	110,572	108,281	78,872
Note: Minor variances may occur due to rounding. (a) Includes funding obligations and deobligations for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.				

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Table 2.5

FY2015 Funding and Costs by Other Direct Operating Source (\$K) Continued

Funding Source	FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
DOE Integrated Contractors				
Work Performed for Other DOE Locations (b)	-	19,292	19,292	-
Total DOE Integrated Contractors	-	19,292	19,292	-
TOTAL OTHER DIRECT OPERATING (c) (d)	75,412	129,864	127,573	78,872

Note: Minor variances may occur due to rounding.

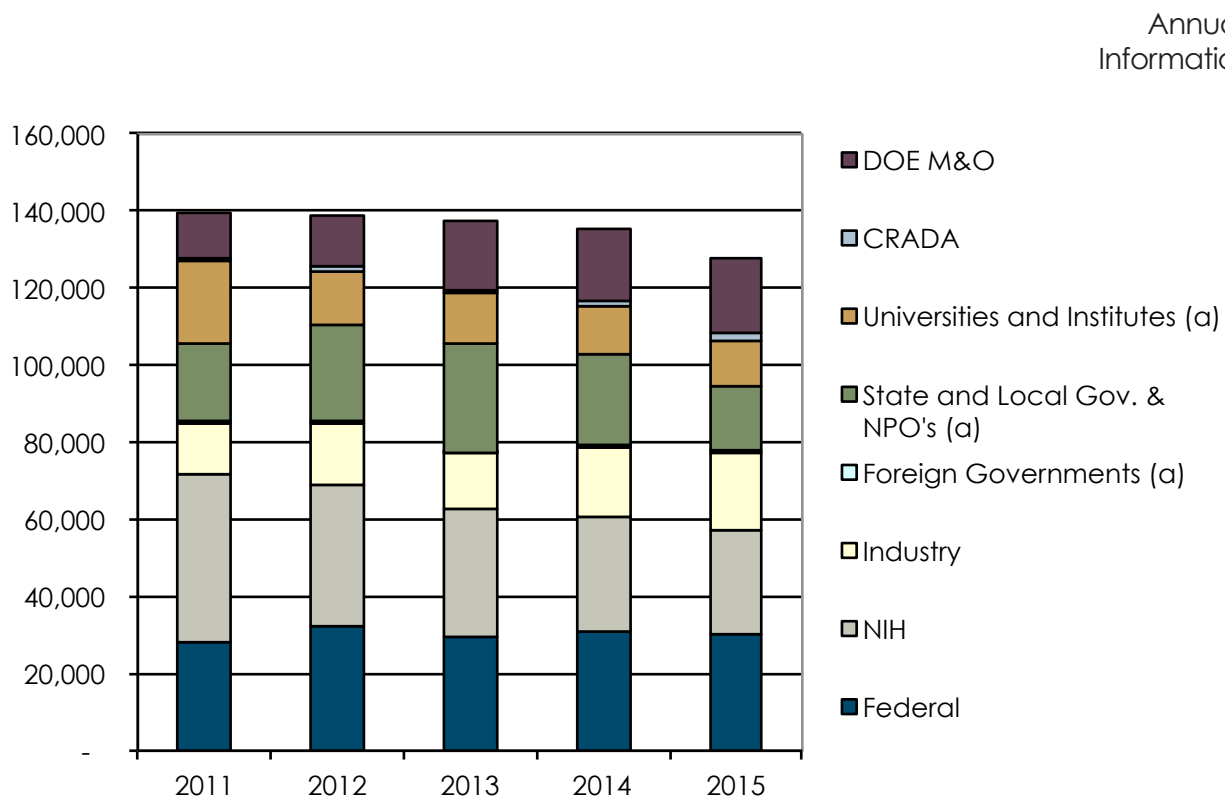
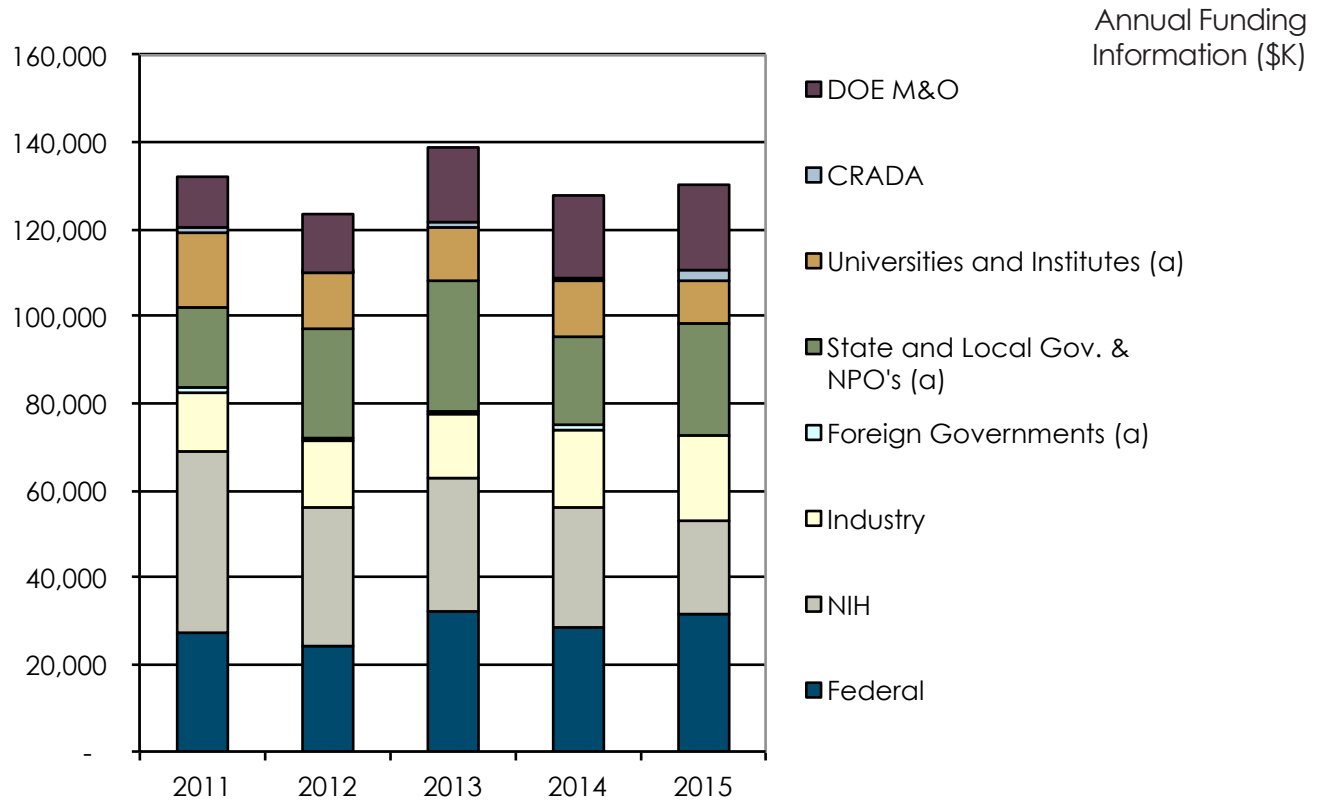
(b) Total funding for Integrated Contractors is assumed to be equal to cost incurred.

(c) The sum of FY2015 Beginning Uncosted Obligations, FY2015 Funds, minus, FY2015 Costs does not equal FY2015 Ending Uncosted Obligations due to various adjustments not reflected in the FY2015 Costs column. Examples of these adjustments include bridge funding, inventory, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2015 is -\$171K.

(d) Includes FY2015 Beginning Uncosted Obligations, FY2015 Funds and FY2015 Costs for American Recovery and Reinvestment Act (ARRA), (\$1,107K, -\$173K, \$934K) see Table 3.4 for details by sponsor.

Figure 2.1

FY2015 Funding and Cost Trends by Other Direct Operating Source (\$K)



3. AMERICAN RECOVERY & REINVESTMENT ACT OF 2009 (ARRA)

Table 3.1

Berkeley Lab ARRA Funding Trends (BA) by Funding Source (\$K)

Berkeley Lab Fund Trends by funding source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015
DOE OPERATING					
Advanced Research Projects Agency - Energy	-	-	-	-	(71)
Assistant Secretary for Energy Efficiency and Renewable Energy	2,289	(0)	(2)	(1)	(543)
Assistant Secretary for Fossil Energy	-	-	-	-	(5)
Office of Electricity Delivery and Energy Reliability	-	-	-	-	(0)
Office of Science (a)	4,948	13,074	(5)	(3)	(59)
Total Operating	7,237	13,074	(7)	(4)	(677)
OTHER DIRECT OPERATING					
Federal Agencies	6,182	1,621	(12)	(57)	-
Non Federal Sponsors	3,504	1,116	1,154	130	50
DOE Integrated Contractors (b)	1,924	2,198	1,529	1,398	837
Total Other Direct Operating	11,610	4,935	2,670	1,472	887
TOTAL OPERATING	18,847	18,009	2,663	1,468	209
DOE PLANT AND CAPITAL EQUIPMENT					
Basic Equipment/Major Items of Equipment					
Assistant Secretary for Energy Efficiency and Renewable Energy	-	-	-	-	(0)
Office of Science	(4,949)	(13,074)	(1)	(1)	(1)
Total DOE Capital Equipment	(4,949)	(13,074)	(1)	(1)	(1)
GENERAL PLANT PROJECTS					
Office of Science	-	-	-	(0)	-
ACCELERATOR IMPROVEMENT PROJECTS					
Office of Science	-	-	-	(0)	-
LINE-ITEM CONSTRUCTION					
Assistant Secretary for Energy Efficiency and Renewable Energy	-	-	-	-	(0)
Office of Science	-	(0)	(0)	-	-
Total DOE Plant	-	(0)	(0)	(0)	(0)
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	(4,949)	(13,074)	(1)	(1)	(1)
TOTAL LABORATORY	13,898	4,935	2,662	1,467	208

Note: Minor variances may occur due to rounding.

(a) Portion of High Performance Network Facilities funding reobligated from Capital Equipment to Operating in FY2011 and FY2012.

(b) Total funding for Integrated Contractors is assumed to be equal to cost incurred.

Table 3.2

Berkeley Lab ARRA Cost Trends by Funding Source (\$K)

Berkeley Lab Spending Trends by Funding Source (\$K)	FY2011	FY2012	FY2013	FY2014	FY2015
OPERATING					
Advanced Research Projects Agency - Energy	1,966	1,956	1,179	109	-
Assistant Secretary for Energy Efficiency and Renewable Energy	11,853	8,109	4,001	3,575	3,356
Assistant Secretary for Fossil Energy	1,314	2,345	927	151	-
Office of Electricity Delivery and Energy Reliability	589	327	525	491	413
Office of Science	36,484	28,101	12,268	1,640	865
Total Operating	52,206	40,838	18,902	5,965	4,633
OTHER DIRECT OPERATING					
Federal Agencies	7,181	1,701	13	3	-
Non Federal Sponsors	2,927	1,904	1,613	169	97
DOE Integrated Contractors	1,924	2,198	1,529	1,398	837
Total Other Direct Operating	12,032	5,803	3,154	1,570	934
TOTAL OPERATING	64,238	46,642	22,056	7,535	5,568
DOE PLANT AND CAPITAL EQUIPMENT					
Basic Equipment/Major Items of Equipment					
Assistant Secretary for Energy Efficiency and Renewable Energy	3,195	876	628	-	-
Office of Science	19,781	9,339	476	-	-
Total Capital Equipment	22,977	10,215	1,104	-	-
General Plant Projects					
Office of Science	357	2,141	541	-	-
Accelerator Improvement Projects					
Office of Science	1,837	2,212	2,567	-	-
Line-Item Construction					
Assistant Secretary for Energy Efficiency and Renewable Energy	1,151	2,036	8,262	3,991	170
Office of Science	10,685	1,431	-	-	-
Total DOE Plant	14,029	7,820	11,370	3,991	170
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	37,006	18,035	12,474	3,991	170
TOTAL LABORATORY	101,244	64,677	34,530	11,526	5,738
Note: Minor variances may occur due to rounding.					

Figure 3.1

Where Did Your ARRA Program Dollars Go in FY2015?

Expenses	DOE Operating Costs	DOE Integrated Contractors Costs	Construction and Equipment	Non-DOE
DIRECT				
Direct Labor				
Labor (a)	\$0.20	\$0.09	\$0.39	\$0.54
Contract Labor	\$0.00	\$0.00	\$0.00	\$0.00
Organization/ALD Burden (b)	\$0.03	\$0.02	\$0.07	\$0.10
Subtotal Direct Labor	\$0.23	\$0.10	\$0.46	\$0.64
Other Direct				
Services	\$0.58	\$0.77	\$0.39	\$0.00
Materials	\$0.00	\$0.01	\$0.00	\$0.00
Utilities	\$0.00	\$0.00	\$0.00	\$0.00
Other Expenses (c,e)	\$0.00	\$0.00	\$0.00	\$0.00
Recharges (b,d,e)	\$0.02	\$0.01	\$0.00	\$0.00
Travel	\$0.01	\$0.01	\$0.00	\$0.00
Subtotal Other Direct	\$0.61	\$0.79	\$0.40	\$0.00
Total Direct	\$0.84	\$0.89	\$0.86	\$0.64
INDIRECT				
Procurement	\$0.02	\$0.03	\$0.03	\$0.00
Travel	\$0.00	\$0.00	\$0.00	\$0.00
G&A (Other Inst.)	\$0.14	\$0.08	\$0.12	\$0.36
Total Indirect	\$0.16	\$0.11	\$0.14	\$0.36
TOTAL EXPENSES	\$1.00	\$1.00	\$1.00	\$1.00

Note: Minor variances may occur due to rounding.

(a) Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRA's and Campus Labor.

(b) Distributed activities used by direct funded programs. ALD Burden implemented at beginning of FY2013.

(c) Includes misc. expenses (stipends, sales tax, freight, etc.).

(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

(e) Safeguards and Securities costs moved from Other Expenses to Recharges for FY2013 report.

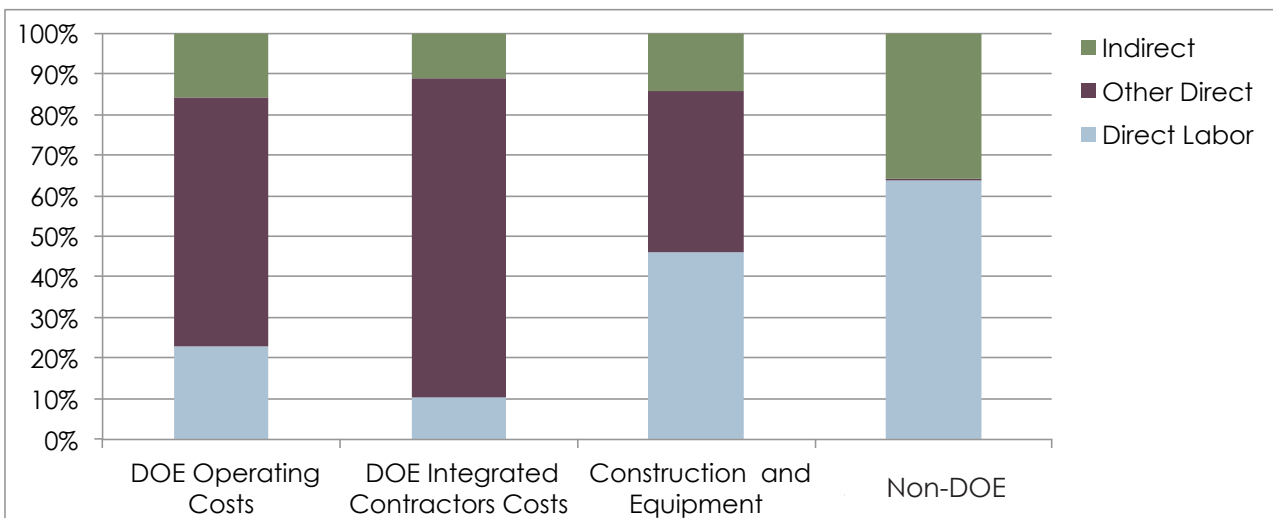


Table 3.3

FY2015 ARRA Funding and Costs by DOE Programs (\$K)

Office of Science ARRA		FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
OPERATING:					
KA14	Theoretical Physics	330	(0)	330	-
KA15	Advanced Technology R&D (prior to restructure)	0	(0)	-	-
KB03	Nuclear Theory	155	(0)	155	-
KC02	Materials Sciences and Engineering	379	(0)	379	-
KJ04	Mathematical, Computational, and Computer Sciences Research	58	(58)	-	-
Total Operating		923	(59)	865	-
CAPITAL EQUIPMENT:					
KA15	Advanced Technology R&D (prior to restructure)	1	(1)	-	-
Total Capital Equipment		1	(1)	-	-
GENERAL PLANT PROJECTS:					
KG09	General Plant Projects	-	-	-	-
Total General Plant Projects		-	-	-	-
ACCELERATOR IMPROVEMENT PROJECTS:					
KC02	Materials Sciences and Engineering	-	-	-	-
Total Accelerator Improvement Projects		-	-	-	-
LINE ITEM CONSTRUCTION:					
39KG	Science Laboratories Infrastructure	-	-	-	-
Total Line Item Construction		-	-	-	-
TOTAL OFFICE OF SCIENCE ARRA		924	(59)	865	-

Table 3.4

FY2015 ARRA Funding and Costs by Other Direct Operating Source (\$K)

Funding Source	FY2015 Beginning Uncosted Obligations	FY2015 Funds	FY2015 Costs	FY2015 Ending Uncosted Obligations
REIMBURSABLE WORK				
Federal Agencies				
Other Energy Related Activities	48	50	97	-
Total Federal Agencies	48	50	97	-
Non-Federal Agencies				
Industry	-	-	-	-
Universities and Institutes	-	-	-	-
Total Non-Federal Agencies	-	-	-	-
TOTAL REIMBURSABLE	48	50	97	-
DOE INTEGRATED CONTRACTORS				
Work Performed for Other DOE Locations (a)	-	837	837	-
Total DOE Integrated Contractors	-	837	837	-
TOTAL OTHER DIRECT OPERATING	48	887	934	-
Note: Minor variances may occur due to rounding				
(a) Total funding for DOE Integrated Contractors is assumed to be equal to cost incurred.				

Table 3.5

ARRA Cost Trends by Expense Category, FY2011-FY2015 (\$M and % of Total)

Expenses	FY2011		FY2012		FY2013		FY2014		FY2015	
	\$M	%	\$M	%	\$M	%	\$M	%	\$M	%
DIRECT										
Direct Labor										
Labor (a)	18.0	17.8%	12.9	19.9%	7.2	20.8%	2.0	17.0%	1.1	19.2%
Contract Labor	0.0	0.0%	0.1	0.1%	0.1	0.1%	0.0	0.2%	0.0	0.0%
Organization/ALD Burden (b)	3.0	2.9%	2.2	3.3%	1.2	3.4%	0.3	2.9%	0.2	3.4%
Subtotal Direct Labor	21.0	20.7%	15.1	23.3%	8.4	24.4%	2.3	20.1%	1.3	22.6%
OTHER DIRECT										
Services	47.5	46.9%	22.5	34.8%	15.6	45.0%	7.9	69.2%	3.4	59.3%
Materials	18.5	18.3%	16.9	26.1%	5.1	14.8%	0.1	1.2%	0.0	0.4%
Utilities	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0%
Other Expenses (c,e)	0.2	0.2%	0.2	0.3%	0.0	0.1%	-0.5	-4.4%	0.0	0.0%
Recharges (b,d,e)	1.0	1.0%	0.8	1.2%	0.4	1.3%	0.1	1.2%	0.1	1.7%
Travel	0.6	0.6%	0.4	0.7%	0.2	0.6%	0.1	1.2%	0.0	0.7%
Subtotal Other Direct	67.8	67.0%	40.8	63.1%	21.3	61.7%	7.8	68.4%	3.6	62.1%
Total Direct	88.8	87.7%	55.9	86.5%	29.7	86.1%	10.1	88.5%	4.9	84.6%
INDIRECT										
Procurement	1.5	1.5%	1.1	1.6%	0.6	1.7%	0.1	0.9%	0.1	1.9%
Travel	0.1	0.1%	0.1	0.1%	0.0	0.1%	0.0	0.1%	0.0	0.1%
G&A (Other Inst.)	10.9	10.7%	7.6	11.8%	4.2	12.1%	1.2	10.4%	0.8	13.4%
Total Indirect	12.4	12.3%	8.8	13.5%	4.8	13.9%	1.3	11.5%	0.9	15.4%
TOTAL EXPENSES	101.2	100.0%	64.7	100.0%	34.5	100.0%	11.5	100.0%	5.7	100.0%

Note: Minor variances may occur due to rounding.

(a) Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.

(b) Distributed activities used by direct funded programs.

(c) Includes misc. expenses (stipends, sales tax, freight, etc.).

(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

(e) Safeguards and Securities costs moved from Other Expenses to Recharges for FY2013 report.

Table 3.6

ARRA Job Reporting

DOE DIRECT ARRA Projects	Life-to-Date Jobs		
	Created	Retained	Total
Total DOE Direct ARRA Projects	354.0	1,534.4	1,888.4
Total Other Direct Operating ARRA Projects (a)	92.7	35.7	128.5
BERKELEY LAB TOTAL	446.7	1,570.2	2,016.9
DOE DIRECT ARRA PROJECTS			
ALS User Support Building	5.2	106.0	111.3
GPP, Upgrade Bldg 62	4.7	32.2	36.9
GPP, Upgrade Bldg 66	2.6	19.5	22.1
GPP, Air Handling Equipment	0.9	11.2	12.1
GPP, Upgrade Bldg 2	2.0	18.4	20.4
GPP, Modernize Transformer	4.5	8.6	13.1
Bevatron Demolition	-	22.7	22.7
Seismic Phase 2, 09-SC-72	7.5	130.3	137.8
Adv. Plasma Accel. Facility. (BELLA)	25.3	34.5	59.8
Nuclear Data Program Init.	-	4.3	4.3
Enh AIP Funding, Injector	6.9	1.0	7.9
Fed Lab Support for ARRA Trans	1.1	-	1.1
HEP-Adv Tech R&D Augmentation (Magnets)	7.1	6.0	13.1
Nanoscale Science Rsrch Centrs	0.6	25.6	26.2
Enh AIP Funding, RF Amplifier	0.9	-	0.9
Energy Frontier Research Cntrs	0.5	-	0.5
HEDLP NDCX-II	23.4	33.7	57.1
ALS Beamline Detectors	5.6	1.1	6.7
ALS Slice Beamline EPU	6.3	1.8	8.0
ALS Sextupoles Magnets	16.3	2.3	18.6
ALS High Field Vector Magnet	3.1	5.8	8.9
ARPA-E Early Harvest Solicit.	0.1	-	0.1
Joint Genome Institute	-	102.5	102.5
Joint BioEnergy Institute	0.0	39.8	39.8
Advanced Networking Initiative	19.5	547.7	567.2
Comp. Partnerships (SciDAC-e)	3.2	1.1	4.4
Enhance FEMP Service Function	4.5	1.3	5.7
Berkeley Lab Magellan Cloud Computing	10.4	102.1	112.4
Climate100 - ESG to 100 Gbps	1.2	-	1.2
Petascale Initiative	18.3	-	18.3
Enhanced Geothermal Systems (EGS) with CO2 as Heat Transmission Fluid	1.8	3.7	5.5
Coupled Thermal-Hydrological-Mechanical-Chemical Model and Experiments for Optimization of Enhanced Geothermal System Development and Production	4.5	0.5	5.0
Note: Minor variances may occur due to rounding.			
(a) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.			

continued...

Table 3.6

ARRA Job Reporting Continued

DOE DIRECT ARRA Projects	Life-to-Date Jobs		
	Created	Retained	Total
Fluid Imaging of Enhanced Geothermal Systems through Joint 3D Geophysical Inverse Modeling	4.4	0.8	5.2
Integrated Approach to Use Natural Chemical and Isotopic Tracers to Estimate Fracture Spacing and Surface Area in EGS Systems	6.2	-	6.2
National Accounts Acceleration in Support of Commercial Building Initiative	12.4	8.5	20.9
Smart Grid Investment Grant Program	5.3	3.0	8.3
Hospital Energy Benchmarking SysDev	0.7	0.1	0.8
Incorporating EE into Commercial Mortgage Underwriting	1.2	4.5	5.8
Northern California CO2 Reduction Project	0.6	-	0.6
Builders Challenge and Existing Home Retrofits	7.0	7.1	14.1
Advanced Biofuels PDU-Bioenergy Research Center Collaboration	3.3	97.1	100.4
Deep Exploratory Test well for CO2 Sequestration purposes, Newark Basin-Southern New York and New Jersey	2.9	0.7	3.6
Residential Home Retrofit Support & Research	6.2	-	6.2
Home Retrofits Rating Support	7.7	0.3	8.1
Residential Building Home Retrofit Analysis	0.7	0.6	1.3
User Facility for Low Energy Integrated Buildings Systems Research (UTBF)	11.5	102.5	114.0
High Energy Physics- Early Career Research Program	11.3	-	11.3
Basic Energy Sciences- Early Career Research Program	10.6	0.2	10.8
Nuclear Physics-Early Career Research Program	10.9	0.5	11.4
NP-3D Gamma ray Imaging Technologies	3.7	-	3.7
ASCR-Comp Partnerships- SciDAC-e-PERC-3-Enhancing Productivity of Materials Discovery computation for Solar fuels and Next Gen. Autotuning Large Computational codes.	2.2	6.2	8.5
Visualization and Analytics Center for Enabling Technologies-VACET	3.6	-	3.6
Applied Partial Differential Equations Center for Enabling Technologies(APDEC)	3.2	1.9	5.0
Towards Optimal Petascale Simulations-TOPS-SciDAC-e	2.7	-	2.7
EE Technical Assistance	0.5	-	0.5
Development of an Integrated Microbial-ElectroCatalytic (MEC) System for Liquid Biofuel Production from CO2	8.0	1.9	10.0
High Throughput Discovery of Robust Metal Organic Frameworks for CO2 capture	11.3	2.9	14.2
ARRA Evaluation	1.6	20.1	21.7
Berkeley Lab ARRA Bridge - Evaluation Support	1.1	10.2	11.3
Industrial Carbon Capture & Storage:Joint Inversion of Monitoring Data for Early Leakage Detection	9.3	1.4	10.7
Carbon Capture Simulation initiative-Industrial Carbon Capture and Storage	6.3	-	6.3
Online Training tool-Weatherization Training and Technical Assistance	5.4	0.3	5.7
ARPA E- Hydrogen-Bromine Flow Batteries for Grid-Scale Energy Storage	4.2	-	4.2
Total DOE Direct ARRA Projects	354.0	1,534.4	1,888.4

continued...

Table 3.6

ARRA Job Reporting Continued

Other Direct Operating ARRA Projects (a)	Life-to-Date Jobs		
	Jobs Created	Jobs Retained	Total Jobs
PHENIX FVTX Sensor Backplanes	1.2	-	1.2
PHENIX Station Disks	0.0	-	0.0
Evaluating Benefits of Advanced Metering Infrastructure, Smart Meters and Time-Varying Tariffs	0.9	-	0.9
Knowledgebase R&R Pilot Project	1.8	-	1.8
Knowledge Fusion and Data-Supported Deep Annotation for Reconstruction of Metabolism	-	1.2	1.2
Technical Support for the ARRA Technical Assistance Project (TAP)	2.1	-	2.1
Optics characterization for LCLS CXI and NIF SXI projects	0.1	-	0.1
Determining Technetium Speciation Using X-ray Absorption Fine Structure (XAFS)	0.1	-	0.1
Smart Grid Consumer Behavior Study Data Processing	0.4	-	0.4
Interregional Electricity Reliability Issue Assessment and Analysis	1.3	3.5	4.7
Area of Interest 2: New Technologies, Electricity Demand, and Utility Resource Plans	5.0	1.1	6.1
Technical Assistance to Electric Infrastructure Planners on Other Subjects	0.9	0.0	0.9
A Distributed Intelligence Automated Demand Response Building Management System	1.1	-	1.1
Energy-Efficient and Comfortable Buildings through Multivariate Integrated Control (ECoMIC)	1.8	-	1.8
Wireless Modular Dimming Lighting Control System	0.7	-	0.7
Development of High Rate Sequential Coatings for Low Cost Electrochromic Glass	1.2	-	1.2
ARRA Performance Tracking Metrics	1.2	0.1	1.4
IWO - Battaglia	-	-	-
Automated Continuous Commissioning of Commercial Buildings	1.4	0.2	1.6
Red Cell Band 4.1--Developmental Changes in RNA Splicing	2.6	2.0	4.6
Red Cell Band 4.1 - Developmental Changes in RNA Splicing	3.3	-	3.3
Age of Onset and Huntingtons Disease	2.6	0.3	3.0
Age of Onset and Huntingtons Disease	3.3	-	3.3
In Vivo Analysis of a Noncoding Susceptibility Region for Coronary Artery Disease	3.5	-	3.5
The Berkeley Cancer Genome Center	-	0.8	0.8
Accelerating Cancer Research with Single Cell Arrays	0.1	0.8	0.9
ARRA Development of the Cell Ontology in Support of the Gene Ontology	2.1	-	2.1
Self-healing Composites via Novel Biomolecular Design and Processing	2.4	-	2.4
MT Function and Dysfunction in Single Neurons in Vivo	4.7	0.2	4.9
Comprehensive characterization of the Drosophila transcriptome	0.5	2.3	2.8
Beamline Automation for Structure Determination	0.8	0.7	1.5
Bay Area Breast Cancer and the Environment Research Center	0.9	-	0.9
Mapping Anti-Cancer Drugs Using Advanced X-Ray Microanalysis	0.2	-	0.2
ARRA Gene Ontology Consortium	1.6	-	1.6
Genome-Wide Mapping of Chromosomal Proteins in Drosophila	0.1	4.8	4.8
Note: Minor variances may occur due to rounding.			
(a) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.			

Table 3.6

ARRA Job Reporting Continued

Other Direct Operating ARRA Projects (a)	Life-to-Date Jobs		
	Jobs Created	Jobs Retained	Total Jobs
Generation of an In vivo Human Genome Transcriptional Enhancer Dataset	1.2	-	1.2
Matrix- Based Mineral (MBM) Enamel Biomimetics	1.0	-	1.0
Integrated nanoparticle characterization and toxicity assessment	0.1	-	0.1
Integrated nanoparticle characterization and toxicity assessment	0.1	-	0.1
Biomimetic Actinide Decorporation: Characterization and Preclinical Development	9.5	9.2	18.7
Manipulating b1 integrin to enhance radiation therapy for breast cancer	0.6	1.5	2.1
Non-B DNA Structure with Chemical Carcinogens	0.0	1.6	1.6
STCI: Middleware for Monitoring and Troubleshooting of Large-Scale Applications on National Cyberinfrastructure	3.7	-	3.7
PHENIX: new methods for automation in macromolecular crystallography	0.3	2.0	2.2
Mismatch Repair and DNA Expansion	0.8	-	0.8
Materials for Green Engineering of Urban Areas	0.0	-	0.0
Production of Advanced Coatings for Solar Cells	0.1	-	0.1
Multidimensional Electrofocusing on Gradient Monoliths	0.7	-	0.7
A metagenomic study of the Hoatzin crop microbes to reveal novel carbohydrate-active enzymes	-	-	-
National Institute for Computational Sciences (NICS) NSF Center for Remote Data Analysis and Visualization	4.2	-	4.2
Blind Geothermal System Exploration in Active Volcanic Environments; Multi-phase Geophysical and Geochemical Surveys in Overt and Subtle Volcanic Systems, Hawaii and Maui	0.5	-	0.5
In-situ protein-protein interaction network isPIN study	0.1	-	0.1
In-situ protein-protein interaction network isPIN study	0.4	-	0.4
Toward the Understanding of Induced Seismicity in Enhanced Geothermal Systems	1.1	-	1.1
Experiment-Based Model for the Chemical Interactions between Geothermal Rocks, Supercritical Carbon Dioxide and Water	2.3	-	2.3
Development of Advanced Thermal-Hydrological-Mechanical-Chemical (THMC) Modeling Capabilities for Enhanced Geothermal Systems	1.1	-	1.1
A New Analytic-adaptive model for EGS assessment, development and management support	1.2	-	1.2
Optimized Drilling and Completion of Abrasive Slurry Jet Microhole Arrays for Efficient Exploitation of Enhanced Geothermal Systems	2.0	-	2.0
Geochemistry and THMC Models for the Newberry EGS Project	1.3	-	1.3
Characterizing Fractures in Geysers Geothermal Field by Micro-seismic Data, Using Soft Computing, Fractals, and Shear Wave Anisotropy	0.5	-	0.5
THMC Modeling of EGS Reservoirs - Continuum through Discontinuum Representations	0.6	-	0.6
Modeling Li Distribution and its Effect on Anode Protection Layers	2.3	-	2.3
TCGA Data Analysis Center at Berkeley	2.4	-	2.4
Note: Minor variances may occur due to rounding.			
(a) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.			

continued...

Table 3.6

ARRA Job Reporting Continued

Other Direct Operating ARRA Projects (a)	Life-to-Date Jobs		
	Jobs Created	Jobs Retained	Total Jobs
Enabling Novel Cathode Electrode Design with Integrated Separator and Manufacturing Toolset for High Energy Prismatic Li-ion Battery Cells	2.9	-	2.9
Development of an 8kx8k pixel direct detection CMOS camera with single electron counting for cryoEM	-	-	-
Automated Continuous Commissioning of Commercial Buildings	0.3	-	0.3
Research Services Program - Geochemistry	0.1	-	0.1
TCGA Data Analysis Center at Berkeley	0.8	0.2	1.0
Innovative Building-Integrated Enthalpy Recovery	0.4	-	0.4
Novel Functions for Red Cell Proteins Lu and LW	0.0	3.3	3.3
Support of the SSA National Support Center Project	0.1	-	0.1
Total Other Direct Operating ARRA Projects (a)	92.7	35.7	128.5
Total DOE Direct ARRA Projects	354.0	1,534.4	1,888.4
BERKELEY LAB TOTAL	446.7	1,570.2	2,016.9
Note: Minor variances may occur due to rounding.			
(a) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.			

4. INDIRECT BUDGETS

Figure 4.1

Indirect Budgets — FY2015 Costs (\$M)

Indirect Budgets (a)	FY2015 Costs (\$M)
G&A (Includes Site Support)	178.4
ALD & Organizational Burden	53.7
Service Centers (b)	44.8
LDRD	24.8
Procurement	13.1
IGPP	4.5
Travel	1.2
Other (c)	0.2
Total	320.7

- (a) Summation of indirect budget provided only to show magnitude of dollars being managed and does not equate to total indirect costs since there are overlaps between indirect budgets. For example, some organization burden costs are included in G&A and Recharges. In FY2015, LDRD cost includes \$7.5M G&A assessed on LDRD projects.
- (b) Service Centers includes recharge cost centers that default to B&R YN01 (project type OHRCH) only.
- (c) Includes: Office of Homeland Security Charge.

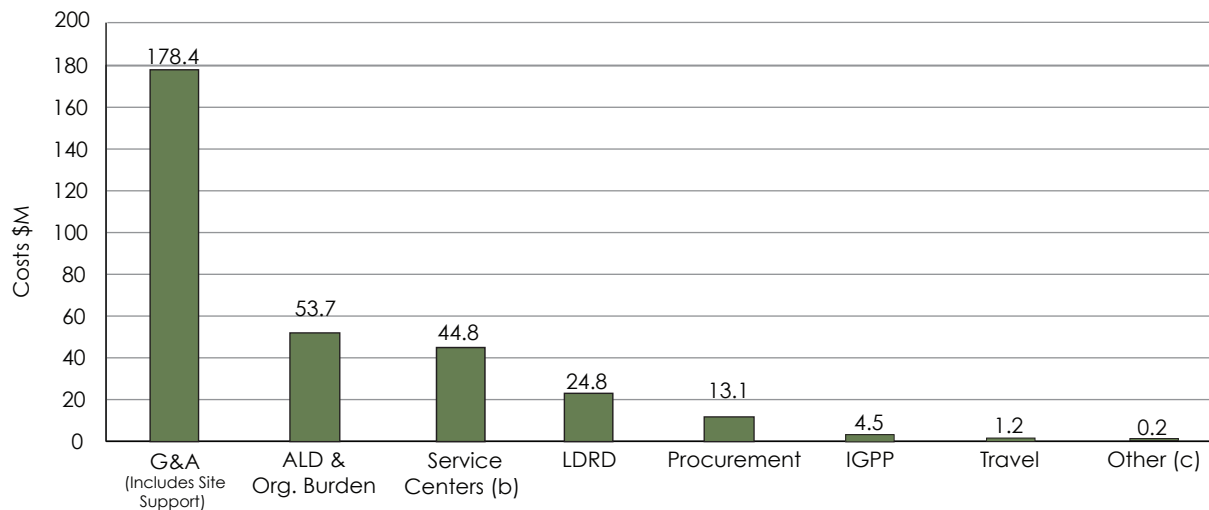
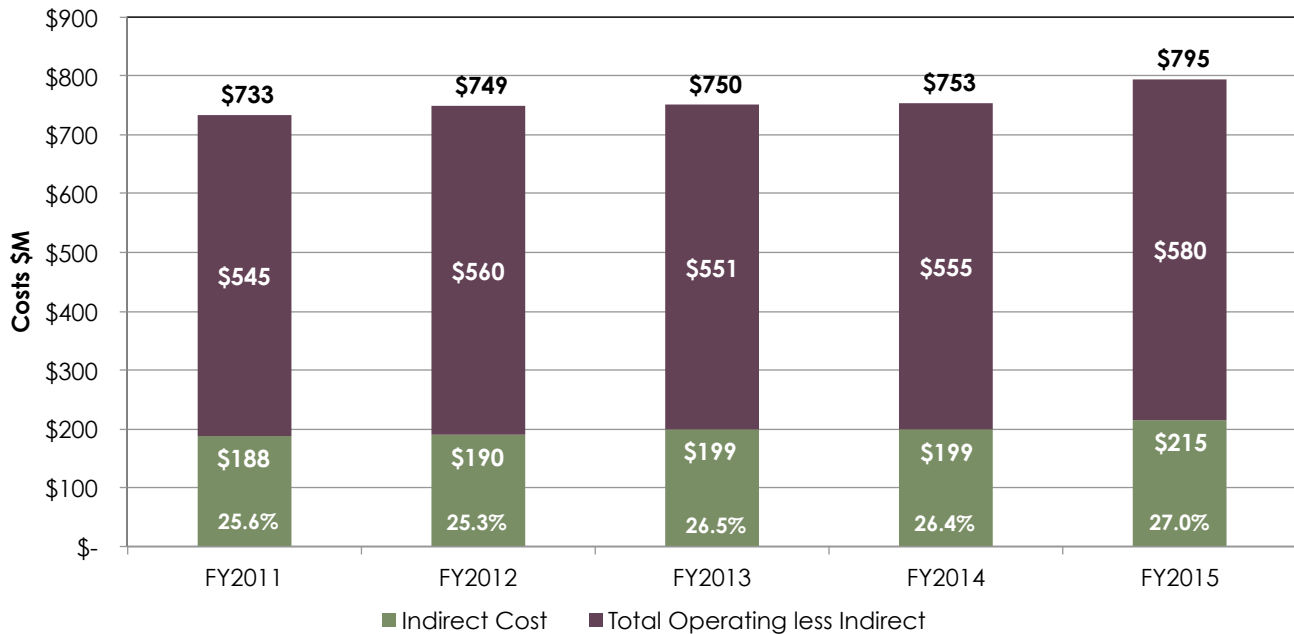


Figure 4.2

Institutional Overhead Costs as a Percent of Operating Costs, FY2011-FY2015

Note: Chart represents the institutional cost structure for each fiscal year with adjustments for indirect double count of G&A on LDRD projects. Institutional overhead costs include G&A, Site Support, LDRD, Travel, Procurement, and IGPP. Percent is the percentage of indirect cost to total operating cost.

Total Operating Costs are used as the denominator in the chart above because this is more representative of ongoing scientific program costs. Including Construction and Capital Equipment costs, which are generally procurement intensive and one-time in nature, would create significant anomalies in overhead comparisons for prior years. Thus, Construction and Capital Equipment costs are excluded from this chart. This differs from Table 1.1.

Table 4.1

Institutional Costs by Division, FY2015 (\$K)

Division	G&A (a)	LDRD (b)	Procurement	Travel	IGPP	Total
Lab Directorate	17,172					17,172
LDRD		24,777				24,777
Engineering	2,637					2,637
Earth Sciences	5					5
Associate Lab Director for Operations						
ALD Office	2,186					2,186
Office of Institutional Assurance	1,883					1,883
IGPP					4,505	4,505
Non-Cap	10,203					10,203
Diversity & EEO/AA	483					483
Public Affairs	2,969					2,969
HR	8,424					8,424
Environmental/Health/Safety	21,792					21,792
Protective Services	11,448					11,448
Facilities	50,827		1,866			52,693
OCFO	11,388		11,223	1,173		23,784
IT	30,407					30,407
General Lab	6,613					6,613
Total	178,437	24,777	13,089	1,173	4,505	221,981

Note: Minor variances may occur due to rounding.

(a) Includes Site Support & Strategic Planning Support Activities (SPSA).

(b) LDRD costs include \$7.5M of G&A assessment.

Table 4.2

Institutional FTEs Charged by Division, FY2015

Division	G&A (a)	LDRD	Procurement	Travel	IGPP	Total
Lab Directorate (a)	66.1					66.1
LDRD		107.0				107.0
Engineering	8.8					8.8
Associate Lab Director for Operations						
ALD Office	7.1					7.1
Office of Institutional Assurance	10.1					10.1
IGPP					3.7	3.7
Non-Cap	8.2					8.2
Diversity & EEO/AA	2.7					2.7
Public Affairs	16.3					16.3
HR	46.1					46.1
Environmental/Health/Safety	93.9					93.9
Protective Services	23.2					23.2
Facilities	142.9		13.8			156.7
OCFO	66.4		66.7	6.9		140.0
IT	85.2					85.2
General Lab	-					-
Total	576.9	107.0	80.5	6.9	3.7	775.0

Note: Minor variances may occur due to rounding.

(a) Includes Site Support & Strategic Planning Support Activities (SPSA)

(b) LDRD projects conducted by multiple divisions as reflected in Table 1.3

Figure 4.3

Payroll Burden Summary (\$M)

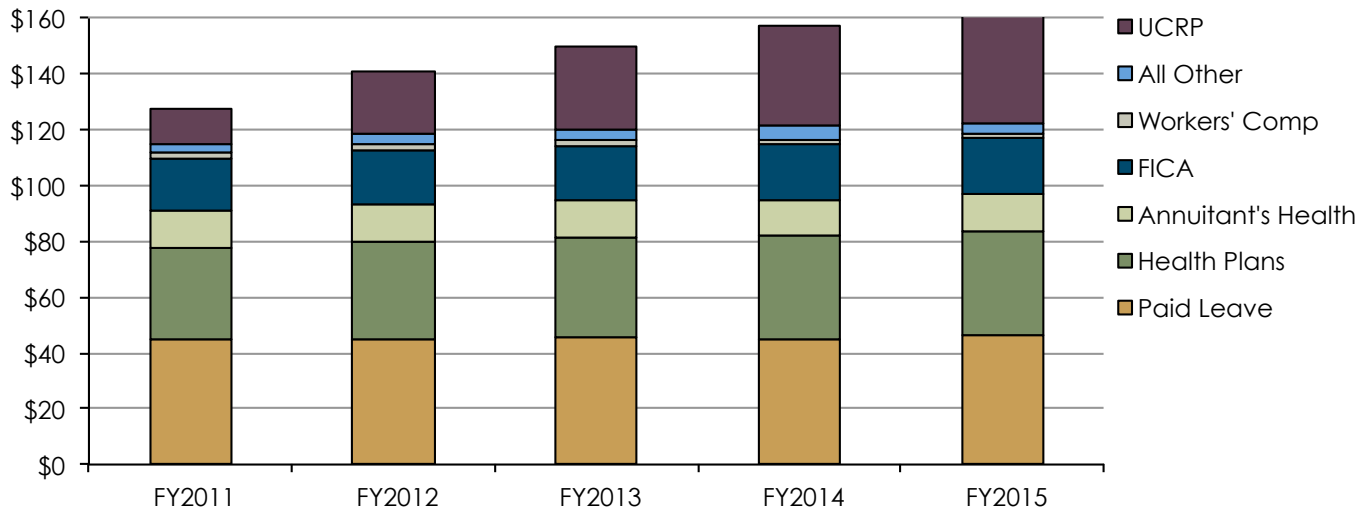


Figure 4.4

Gross Payroll Summary (\$M)

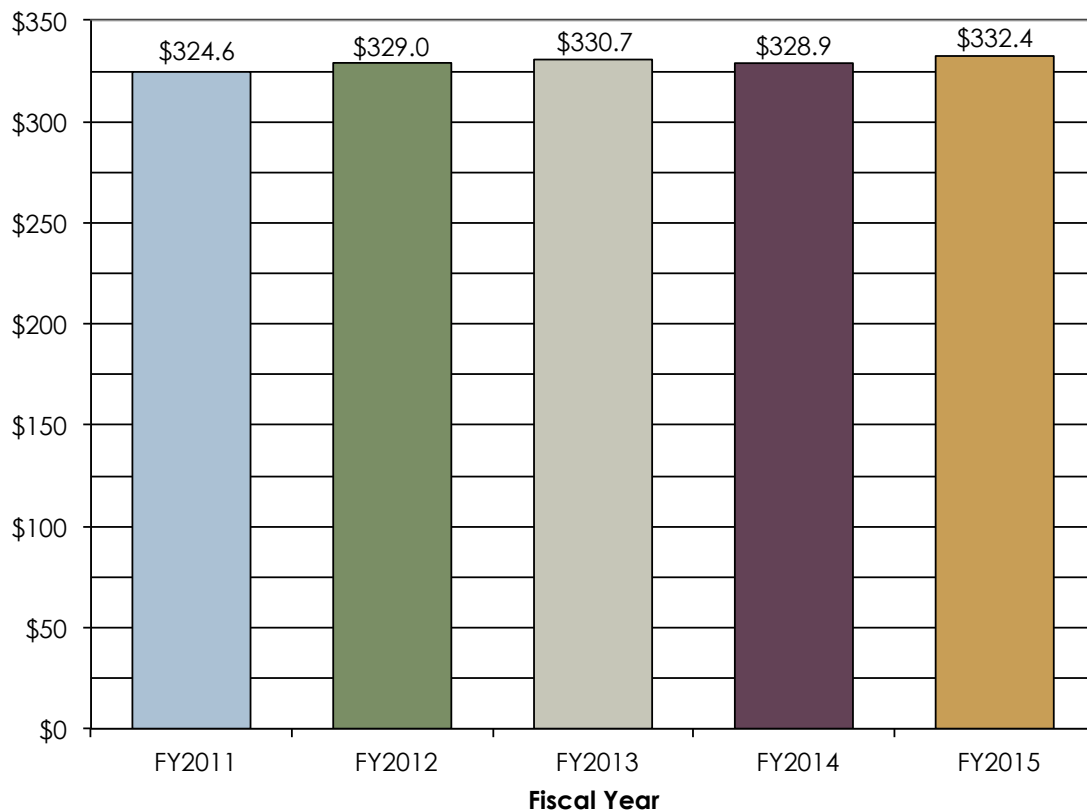


Table 4.3

Organizational Burden Costs and FTEs

Organizational burden includes costs for the management and supervision of division/department activities and is distributed over labor costs including campus and contract labor.

Division Cost Pools	FY2015	
	Cost \$K	Avg FTE
Accelerator Technology & Applied Physics	1,649	8.7
Advanced Light Source	2,387	11.1
Chemical Sciences	1,912	10.9
Computational Research (a)	4,015	19.0
Engineering	4,967	23.9
Earth Sciences	4,310	19.0
Facilities	4,533	20.9
Genomics - Onsite	586	3.6
Information Technology	2,713	11.6
Life Sciences	3,607	24.3
Materials Sciences	3,899	20.7
National Energy Research Scientific Computing Center (a)	1,792	12.8
Nuclear Sciences	1,838	10.6
Physical Biosciences	3,504	20.2
Physics	1,951	12.0
Scientific Networking (a)	541	4.6
Total	44,204	233.7
Note: Minor Variances may occur due to rounding.		
(a) Computing Sciences broken into CR, SN, and NERSC in FY2015.		

Associate Lab Directorate (ALD) Burden Costs and FTEs

Associate Lab Directorate burden includes costs for the management and supervision of ALD activities and is distributed over labor costs including campus and contract labor.

Area Cost Pools	FY2015	
	Cost \$K	Avg FTE
Biosciences	929	2.7
Computing Sciences	187	0.6
Physical Sciences	380	1.3
Energy Technologies Area	7,427	35.9
Energy Sciences	531	2.7
Total	9,453	43.2
Note: Minor Variances may occur due to rounding.		

Table 4.4

Service Center Costs and FTEs

Certain Laboratory services are provided by recharges that recover operational costs through various cost-allocation mechanisms; e.g., by assigning a dollar value to the work performed (a unit charge based on an hourly rate) or the products produced (unit charge per item).

Division (a)	FY2015	
	Cost \$K	Avg FTE
OCFO - Property Storage Recharge	58	0.1
Computing Sciences	1,327	-
Energy Technologies Area	2,869	20.4
Engineering	1,345	6.3
Earth Sciences	52	0.2
Facilities	13,610	2.5
Genomics (JGI)	5,581	7.6
Information Technology	6,643	16.0
Life Sciences	725	4.5
Materials Sciences	272	1.3
Physical Biosciences	8,348	17.6
ALD Operations (b)	3,982	6.9
Total	44,812	83.2
Note: Minor Variances may occur due to rounding. (a) Service Centers includes recharge cost centers that default to B&R YN01 (project type OHRCH) only and GSRA pass through costs. (b) Includes: GSRA pass through costs.		

Table 4.5

Distributed Recharges by Resource Category Trends, FY2011-FY2015 (\$K)

Distributed Recharge (a, b)	FY2011	FY2012	FY2013	FY2014	FY2015
Vehicle	991	829	759	859	864
MSD Facility	246	331	259	250	272
Animal Care	744	720	665	640	659
Creative Services	2,010	1,511	1,507	1,233	919
FAM Facility Recharge			75	104	78
ESD Sample Analysis Recharge			131	49	69
Warehouse Storage Recharge		51	128	100	96
88-Inch Accelerator Operations	452	562	720	511	1,026
JBEI Non-Material Recharge	288	869	946	931	1,335
JBEI Material Recharge	4,034	4,095	4,845	5,162	5,270
BCSB				1,325	1,568
Telephone Services	5,064	5,637	5,318	5,406	5,200
EETD Recharge	1,784	2,132	2,149	2,524	2,802
Molecular Foundry	213				
Computer/Net Recharges	2,244	2,258	1,913	1,683	1,584
Flexlab Recharge				40	60
Engineering Shop	918	878	884	729	656
CAD	731	717	794	728	731
ALS Proprietary Recharge	646	823	617	576	809
JGI Recharge (Capillary Sequencing) (c)	27	15			
JGI Administrative Charge (d)	260	68			
ESnet Recharge	1,192	822	310	294	294
Scientific Networking					2,683
CRT HPC Recharge					1,327
JGI Occupancy Labor Recharge (d)		948	1,152	1,188	980
JGI Occupancy Material Recharge (d)		2,684	-	3,821	4,617
Electricity	12,576	10,795	10,597	12,075	12,919
Mixed Waste Recharge/GL	9	2	1		
National Center for Electron Microscopy		7	3		
GSRA - Material Recharge	3,350	3,937	3,610	3,231	2,917
GSRA - Non-Material Recharge	1	0	7	19	
Low Background Facility	45	29	48		
Total Recharges	37,824	40,722	37,437	43,477	49,735

Note: Minor variances may occur due to rounding.

(a) Includes recharges credited back to direct operating accounts such as ALS, ESnet, JGI, etc.

(b) Does not include Procurement and Travel recharges.

(c) JGI Capillary Sequencing platform phased out in FY2012.

(d) JGI Administrative Charge phased out in FY2012 and replaced by JGI Occupancy Labor and Material Recharges.

5. FINANCIAL STATEMENT

Table 5.1

Balance Sheet Comparative Statement of Financial Position (\$K)

	FY2015 (Note 2)	FY2014 (Note 3)
ASSETS:		
Current Assets		
Accounts Receivable	33,558	32,342
Inventories	442	419
Other Current Assets	244	191
Total Current Assets	39,449	38,069
Net Plant & Equipment	622,978	674,003
TOTAL ASSETS	662,427	712,072
LIABILITIES AND EQUITY:		
Liabilities:		
Current Liabilities		
Drafts Payable	1,764	2,167
Accounts Payable	40,145	38,366
Accrued Expenses	72,313	62,876
Capital Lease Liability - Current	6,869	6,572
Unearned Revenues	62,525	56,082
Other	357	395
Total Current Liabilities	183,973	166,458
Environmental Liabilities	699,944	686,085
ES&H Liability	345,436	300,674
Capital Lease Liability - Noncurrent	203	12,544
Post-Retirement Benefits (Note 2)	674,616	597,938
Pension Plan Liability (Note 2)	1,097,336	949,463
TOTAL LIABILITIES	3,001,508	2,713,162
DOE EQUITY:		
Beginning Equity	(2,001,090)	(1,531,802)
Change in Equity	(337,991)	(469,288)
Ending Equity	(2,339,081)	(2,001,090)
TOTAL LIABILITIES AND EQUITY	662,427	712,072

Note 1: Summary of Significant Accounting Policies

Basis of Presentation

These financial statements have been prepared to report the financial position and results of operations of Berkeley Lab. They have been prepared from the books and records of the Laboratory in accordance with Berkeley Lab's accounting policies.

Reporting Entity

The Laboratory is a national research facility operated by UC for DOE under the terms of Contract DE-AC02-05CH11231 (Contract 31). The Laboratory's reporting entity status is that of an integrated contractor, meaning Berkeley Lab's accounts are integrated with those of DOE through the use of reciprocal accounts. All assets and liabilities are owned by the Federal Government.

Basis of Accounting

The financial records of the Laboratory conform to generally accepted accounting principles (GAAP) and cost accounting standards (CAS) when they do not conflict with the provisions of the DOE accounting directives for Management and Operating (M&O) Contractors and are in compliance with Contract 31 between UC and DOE.

Financial Sources

The Laboratory receives funding from DOE in accordance with the provisions of Contract 31. The Laboratory receives authorizations to incur costs and conduct operations through modifications to the contract.

Reimbursable work is performed for Federal and non-Federal entities. Costs are recorded and billed to the requesting entity by the Laboratory on behalf of DOE. Cash collected from these billings is transmitted to the U.S. Department of the Treasury and deposited in the DOE account. Non-Federally funded work performed at Berkeley Lab must be funded in advance.

Letter of Credit

The Laboratory received authority for expenditures according to a checks-paid letter of credit from the

U.S. Department of the Treasury; Letter of Credit Contract Number DE-AC02-05CH11231 with Wells Fargo Bank (WFB). The WFB letter of credit was renewed on November 1, 2012 for a five year term.

Cash

The Laboratory considers all balances in demand deposit accounts to be cash. At September 30, 2015, Funds Held for Other has \$5.2M in demand deposit accounts.

Inventories

The Laboratory uses a perpetual inventory system for certain inventory balances. An annual physical inventory is performed according to an inventory plan approved by DOE. Stores inventories and precious metals are valued and charged based on weighted of average costing method. Special materials are valued by DOE.

Property, Plant, and Equipment

Property, plant, and equipment are purchased, constructed, or fabricated in-house and include major modifications or improvements. Berkeley Lab's capitalization threshold is \$500K for items with an anticipated service life of two years or more. Property, plant and equipment items meeting these criteria are capitalized. Costs of construction and fabrication are capitalizable expenses and are recorded initially as construction/fabrication work in process. Upon completion or beneficial occupancy, the value is transferred to the appropriate fixed-assets account. Depreciation is computed using the straight-line method over the estimated useful life of the asset.

Liabilities

Liabilities represent the amount of monies that are likely to be paid by the Laboratory as a result of transactions or events that have already occurred. Liabilities cannot be incurred by Berkeley Lab without an authorized appropriation, except for approved unfunded liabilities.

Accrued Vacation and Sick Leave

Laboratory policy provides for employees' annual vacation benefits ranging from 10 to 16 hours per month,

Note 1: Summary of Significant Accounting Policies Continued

depending upon years of service. Vacation is earned and accrued on a monthly basis. Employees may accumulate vacation up to two times their annual leave. Unused earned vacation is paid 100% upon retirement or termination.

Each employee accumulates sick leave at a rate of eight hours per month. Unused sick leave accumulates until it is used. If an employee terminates before using sick leave, the benefit is forfeited without liability to the Laboratory. As such, no sick leave liability is recorded. Retiring employees are allowed to apply unused sick leave toward additional years of service.

Retirement Plan

Most career employees are participants in the UC Retirement System (UCRS). UCRS consists of a 2-tier basic defined benefit plan (UCRP) and two voluntary plans composed of several investment funds that are funded with employer and employee contributions. Employees who first become eligible to participate in UCRP on or after July 1, 2013 will accrue benefits in the 2013 Tier. An employee who began accruing benefits before July 1, 2013 will continue accruing benefits under the 1976 Tier until he or she has a break in service. If an employee returns to eligible employment on or after July 1, 2013 following a break in service, he or she will accrue additional service credit under the 2013 Tier.

Note 2

Note 2: Year-End Adjustments

DOE made adjustments to record FY2015 Post-Retirement Benefit and Pension Plan obligation. These amounts will be reflected in the Laboratory's actuals for October 2015. These adjustments are the result of coordination and approval by both DOE and UC.

The following is the adjusted balance sheet for FY2015:

Adjusted Balance Sheet (\$K)			
	FY2015	YE Adjustments	Adjusted FY2015
ASSETS:			
Current Assets			
Cash	5,205		5,205
Accounts Receivable	33,558		33,558
Inventories	442		442
Other Current Assets	244		244
Total Current Assets	39,449		39,449
Net Plant & Equipment	622,978		622,978
TOTAL ASSETS	662,427		662,427
LIABILITIES AND EQUITY:			
Liabilities:			
Current Liabilities			
Drafts Payable	1,764		1,764
Accounts Payable	40,145		40,145
Accrued Expenses	72,313		72,313
Capital Lease Liability-Current	6,869		6,869
Unearned Revenues	62,525		62,525
Other	357		357
Total Current Liabilities	183,973		183,973
Environmental Liabilities	699,944		699,944
ES&H Liability	345,436		345,436
Capital Lease Liability	203		203
Post-Retirement Benefits	597,938	76,678	674,616
Pension Plan Liability	949,463	147,873	1,097,336
TOTAL LIABILITIES	224,551	224,551	3,001,508
DOE Equity:			
Beginning Equity	(2,001,090)		(2,001,090)
Change in Equity	(113,440)	(224,551)	(337,991)
Ending Equity	(2,114,530)	(224,551)	(2,339,081)
TOTAL LIABILITIES AND EQUITY	662,427	0	662,427

Note 3

Note 3: Year-End Adjustments

In FY2015, due to chart of account realignment, we have reclassified certain items from Current Liabilities to Current Assets in the prior-period balance sheet to conform to the current period's presentation.

The following is the adjusted balance sheet for FY2014:

Adjusted Balance Sheet (\$K)			
	FY2014	Chart of Account Realignment adjustments	Adjusted FY2014
ASSETS:			
Current Assets			
Cash	-	5,117	5,117
Accounts Receivable	7,250	25,092	32,342
Inventories	419	-	419
Other Current Assets	191	-	191
Total Current Assets	7,860	30,209	38,069
Net Plant & Equipment	674,003	-	674,003
TOTAL ASSETS	681,863	30,209	712,072
LIABILITIES AND EQUITY			
Liabilities:			
Current Liabilities			
Drafts Payable	1,837	330	2,167
Accounts Payable	43,132	-4,766	38,366
Accrued Expenses	58,094	4,782	62,876
Capital Lease Liability - Current	6,572	-	6,572
Unearned Revenues	23,865	32,217	56,082
Other	2,749	-2,354	395
Total Current Liabilities	136,249	30,209	166,458
Environmental Liabilities	686,085		686,085
ES&H Liability	300,674		300,674
Capital Lease Liability	12,544		12,544
Post-Retirement Benefits	597,938		597,938
Pension Plan Liability	949,463		949,463
Total Liabilities	2,682,953	0	2,713,162
Beginning Equity	(1,531,802)		(1,531,802)
Change in Equity	(469,288)		(469,288)
Ending Equity	(2,001,090)		(2,001,090)
TOTAL LIABILITIES AND EQUITY	681,863	0	712,072

6. PROCUREMENT & PROPERTY MANAGEMENT

Table 6.1

Purchases Placed Using Purchase Orders/Subcontracts

Total POs	(\$K)	# Actions
\$0 - \$25,000	\$53,142	54,479
\$25,001 - \$150,000	\$76,921	1,286
\$150,001 - \$1,000,000	\$92,449	270
\$1,000,001 +	\$126,595	49
Total	\$349,106	

Table 6.2

Procurement Purchase Order Dollar Amount by Division

Division	PO (\$K)
NERSC	\$60,282
Facilities	\$57,367
Physical Biosciences	\$34,467
Environmental Energy Technologies	\$29,027
Genomics	\$23,994
Physics	\$23,312
Earth Sciences	\$20,377
Materials Sciences	\$17,301
Information Technology	\$14,869
Scientific Networking	\$13,616
Advanced Light Source	\$8,513
Nuclear Sciences	\$7,789
Life Sciences	\$6,645
Accelerator & Fusion Research	\$5,516
OCFO	\$4,827
Environment, Health, Safety & Security	\$4,815
Protective Services	\$3,471
Engineering	\$3,273
Chemical Sciences	\$3,212
Computational Research	\$2,251
Lab Directorate	\$2,066
Human Resources	\$1,301
Operations	\$435
Public Affairs	\$382
TOTAL	\$349,106

Figure 6.1

Procurement Spend by Channel (\$K)

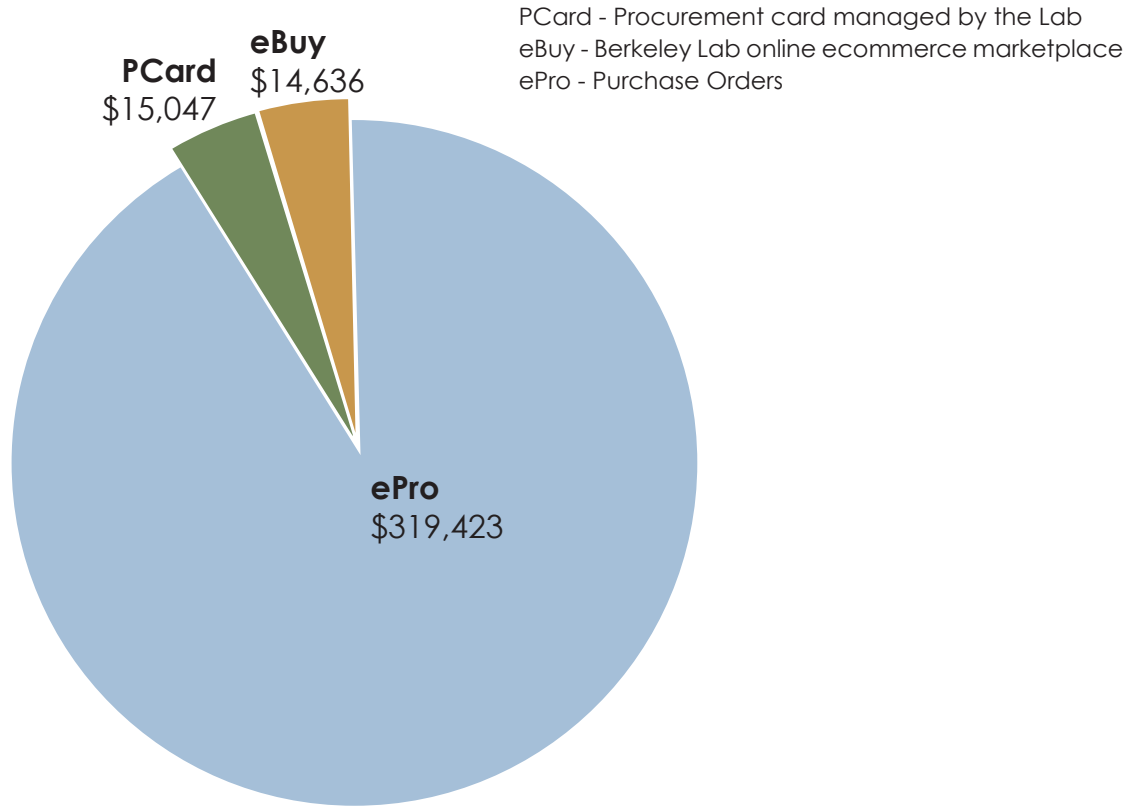


Figure 6.2

Laboratory Supplier Socioeconomic Performance

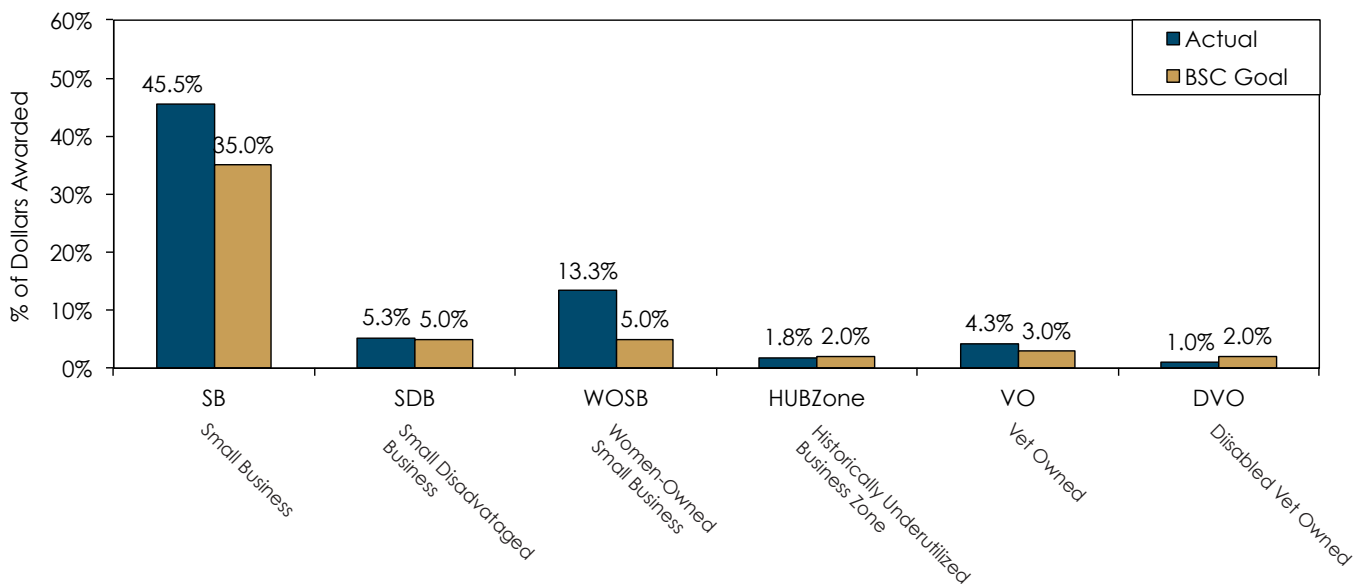


Figure 6.3

Cycle Time for Purchase Orders ≤\$25k — Subcontracting Groups FY2015

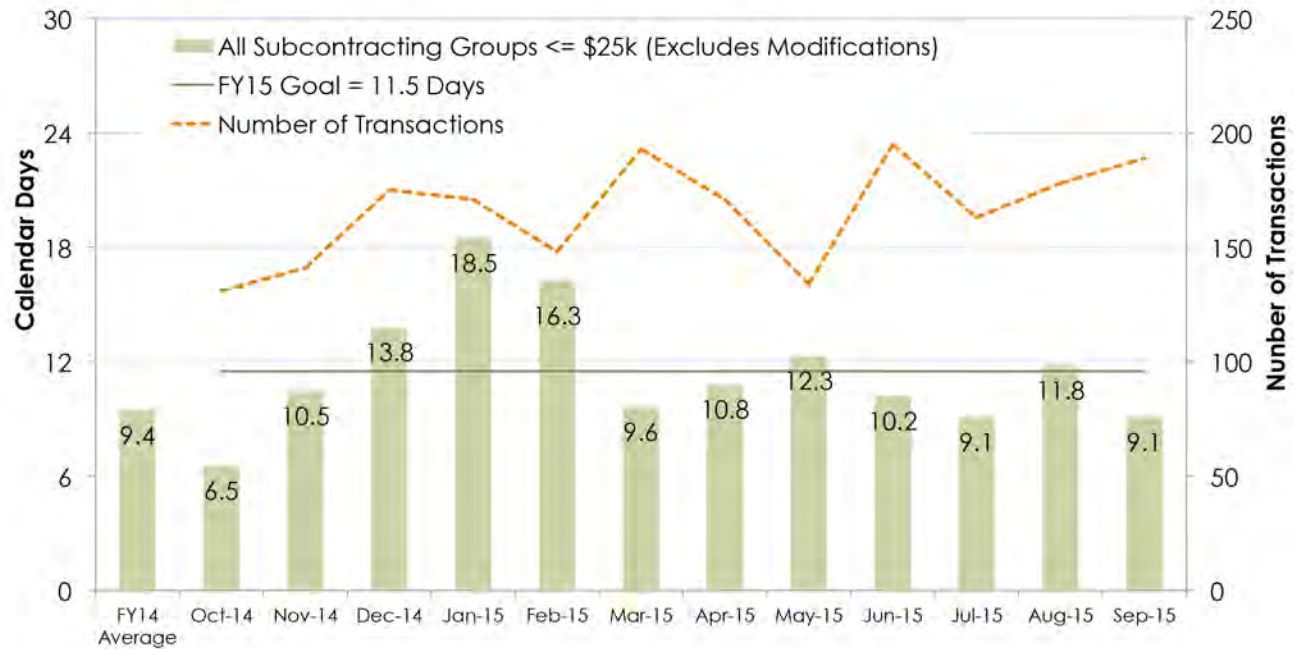


Figure 6.4

Procurement Cost Savings

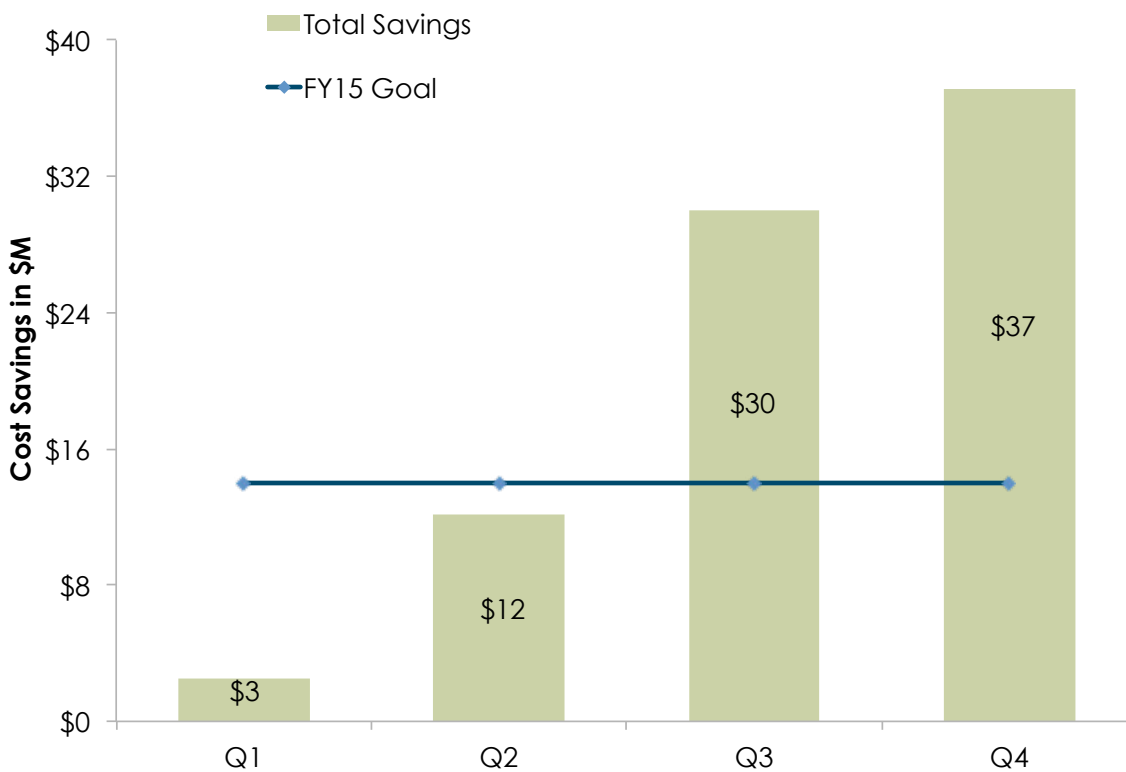


Table 6.3

Property Management Activity

	# of Assets	Acquisition Value (\$K)	
Equipment (a)	7,071	721,349	
Attractive (b)	18,944	69,920	
High Risk (c)	15	207,692	
TOTAL ASSETS	26,030	998,960	
Computers Laptops	6,331	11,965	
Computer Desktops	6,320	13,174	
Tablets	1,004	641	
Total	13,655	25,780	
Inventory campaign	Base	Positive Resolutions	% Positive
Attractive	2,075	2,055	99.04%
Controlled	1,285	1,277	99.38%
High Risk	13	13	100%
Final Results	3,373	3,345	99.17%
Validation Size	63	63	100%
Assets Scanned	2,962	3,345	88.55%
Division	Asset Count	Acquisition Value (\$K)	
Accelerator & Fusion Research	1,012	92,256	
Advanced Light Source	1,518	224,401	
Chief Financial Officer	275	449	
Chemical Sciences	1,013	30,973	
Computational Research (d)	1,064	3,633	
Environmental Energy Technologies	2,088	25,570	
Engineering	874	13,394	
Environment/Health/Safety	294	2,389	
Earth Sciences	1,844	22,367	
Excess	49	1,186	
Facilities	611	6,133	
Genomics	1,397	27,694	
Human Resources	141	174	
Information Technology	2,582	19,325	
Laboratory Directorate	146	260	
Life Sciences	1,359	28,693	
Material Sciences	3,342	144,386	
National Energy Research Scientific Computing Center (d)	1,207	109,196	
Nuclear Science	775	65,247	
Operations	26	37	
Public Affairs	113	216	
Physical Biosciences	2,023	44,456	
Physics	851	101,612	
Protective Services	574	1,541	
Scientific Networking (d)	852	33,372	
TOTAL ASSETS	26,030	998,960	

(a) Equipment - Has an acquisition cost > \$10,000; Has an expected useful life of > 2 years.

(b) Attractive - Attractive regardless of cost (laptops, desktops, workstations, tablets and radios.

(c) High Risk - Property used in the nuclear fuel cycle, firearms, ammunition and explosives, nuclear weapon components or nuclear weapon-like components that do not contain nuclear material as listed in DOE O 474.2.

(d) Computing Sciences broken into CR, SN, and NERSC in FY2015.

7. ACRONYMNS & KEY TERMS

Acronyms and Key Terms

ALD	Associate Lab Director
ALS	Advanced Light Source
ANL	Argonne National Laboratory
ARPA-E	Advanced Research Projects Agency-Energy
ARRA	American Recovery and Reinvestment Act of 2009
ASCR	Advanced Scientific Computing Research
A/S	Assistant Secretary (DOE)
B&R	Budget and Reporting
BA	Budget Authority
BES	Basic Energy Sciences
BSC	Balanced Score Card
CAD	Computer Aided Design
CAS	Cost Accounting Standards
CFO	Chief Financial Officer
CR	Computational Research
CRADA	Cooperative Research and Development Agreement
CSR	Contractor-funded Institutionally Supported Research and Development
DARHT	Dual Axis Radiographic Hydrodynamic Test
DNA	Deoxyribonucleic Acid
DOD	Department of Defense
DOE	Department of Energy
DOI	Department of Interior
eBuy	Berkeley Lab's Online Marketplace
EERE	Energy Efficiency and Renewable Energy
ERWM	Environmental Restoration and Waste Management
EHS	Environment/Health/Safety
ePro	Berkeley Lab Purchase Orders
ESnet	Energy Sciences Network
FTE	Full-Time Equivalent
FY	Fiscal Year (Oct. 1 through Sept. 30)
G&A	General and Administrative
GAAP	Generally Accepted Accounting Principles
G/L	General Ledger
GSO	Goods and Services on Order
GSRA	Graduate Student Research Assistant

Acronyms and Key Terms Continued

HR	Human Resources
HWC	Hazardous Waste Charge
HZE	High-Z High-Energy
I-MANAGE	Integrated Management Navigation System
IC	Integrated Contractors
ICO	Integrated Contractor Order
IGPP	Institutional General Plant Projects
IJE	Inter-Jurisdictional Employee Exchange
IPA	Inter-Governmental Personnel Assignment
IT	Information Technology
JCAP	Joint Center for Artificial Photosynthesis
JGI	Joint Genome Institute
LANL	Los Alamos National Laboratory
LBF	Low Background Facilities
LBNL	Lawrence Berkeley National Laboratory
LDRD	Laboratory Directed Research and Development
LLNL	Lawrence Livermore National Laboratory
M&O	Management & Operating
MLA	Multiple Location Appointment
NASA	National Aeronautics and Space Administration
NERSC	National Energy Research Scientific Computing Center
NIH	National Institutes of Health
NNSA	National Nuclear Security Administration
NSF	National Science Foundation
O&M	Operations & Maintenance
OASDI	Old Age, Survivors and Disability Insurance
OCFO	Office of the Chief Financial Officer
OHRCH	Overhead Recharge
ORNL	Oak Ridge National Laboratory
OSPIP	Office of Sponsored Projects and Industry Partnerships
PCard	Procurement Card
PLF	Paid Leave Factor
PNNL	Pacific Northwest National Laboratory
PPPL	Princeton Plasma Physics Laboratory

Acronyms and Key Terms Continued

R&D	Research and Development
S&S	Safeguard & Security
SB	Small Business
SDB	Small Disadvantaged Business
SLAC	Stanford Linear Accelerator Center
SN	Scientific Networking
SNAP	SuperNova Acceleration Project
SNL	Sandia National Laboratories
SPSA	Site Support & Strategic Planning Support Activities
STARS	Standard Accounting and Reporting System
UC	University of California
UCRP	University of California Retirement Plan
WOSB	Women-Owned Small Business

Key Terms

Throughout this document, \$K means dollars in thousands, \$M means dollars in millions, and \$B means dollars in billions.

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