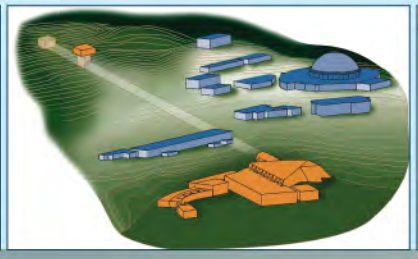


OCFO Annual Report 2010

Annual Report 2010

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

January 2011

BERKELEY LAB
Lawrence Berkeley National Laboratory

OCFO Office of the Chief Financial Officer

This work was supported by the Director, Office of Science of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231.

Table of Contents

Chief Financial Officer's Statement **1**
Office of the Chief Financial Officer **3**
Lawrence Berkeley National Laboratory (LBNL), University of California **4**

1. Institutional Information **5**

Where Did Your Program Dollars Go in FY2010 | Figure 1.1 6
Cost Trends by Expense Category, FY2006 - FY2010 ($M and % of Total) | Table 1.1 7
Direct Cost Trends by Division, FY2006 - FY2010 ($K) | Table 1.2 8
Costs by Direct Funding Source by Division, FY2010 ($K) | Table 1.2a 9
Costs By Direct Funding Source by Division, FY2009 ($K) | Table 1.2b 10
Costs By Direct Funding Source by Division, FY2008 ($K) | Table 1.2c 11
Costs By Direct Funding Source by Division, FY2007($K) | Table 1.2d 12
Costs By Direct Funding Source by Division, FY2006 ($K) | Table 1.2e 13
Indirect Budget Costs by Division, FY2010 ($K) | Table 1.3 14
Average FTE Breakdown by Division, FY2010 ($K) | Table 1.4 15
Funds Held for Others Cost Trends, FY2006 - FY2010 ($K) | Table 1.5 16

2. Direct Funding — DOE and Reimbursable Work **17**

LBNL Funding Trends (BA) by Funding Source ($K) | Table 2.1 20
LBNL Cost Trends by Funding Source ($K) | Table 2.2 22
LBNL Funding and Costs by Funding Source ($K) | Table 2.3 24
FY2010 Funding and Costs by DOE Programs ($K) | Table 2.4 26
FY2010 Funding and Costs by Other Direct Operating Source ($K) | Table 2.5 36
FY2010 Funding and Cost Trends by Other Direct Operating Source ($K) | Figure 2.1 38

3. American Recovery and Reinvestment Act of 2009 (ARRA) **39**

LBNL ARRA Fund Trends (BA) by Funding Source ($K) | Table 3.1 40
LBNL ARRA Cost Trends by Funding Source ($K) | Table 3.2 41
Where Did Your ARRA Program Dollars Go in FY2010? | Figure 3.1 42
FY2010 ARRA Funding and Costs by DOE Programs ($K) | Table 3.3a 43
FY2010 ARRA Funding and Costs by DOE Programs ($K) | Table 3.3b 44
FY2010 ARRA Funding and Costs by DOE Programs ($K) | Table 3.3c 45
FY2010 ARRA Funding and Costs by Other Direct Operating Source ($K) | Table 3.4 46
ARRA Cost Trends by Expense Category, FY2009-FY2010 ($M and % of Total) | Table 3.5 47
ARRA Job Reporting | Table 3.6 48

4. Indirect Budgets 53

Indirect Budgets — FY2010 Costs ($M) | Figure 4.1 54
Institutional Overhead Costs as a Percent of Operating Costs, FY2008 - FY2010 | Figure 4.2 55
Institutional Costs by Division, FY2010 ($K) | Table 4.1 56
Institutional FTEs Charged by Division, FY2010 | Table 4.2 57
Payroll Burden Summary ($M) | Figure 4.3 58
Gross Payroll Summary ($M) | Figure 4.4 58
Organizational Burden Costs and FTEs | Table 4.3 59
Service Center Costs and FTEs | Table 4.4 60
Distributed Recharges by Resource Category Trends, FY2006 - FY2010 ($K) | Table 4.5 61
Functional Support Costs as a Percent of Total Costs, FY2004 - FY2009 ($K) | Figure 4.5 62

5. Financial Statement 63

Balance Sheet Comparative Statement of Financial Position (in $K) | Table 5.1 64
Summary of Significant Accounting Policies | Note 1 65
Accounts Receivable | Note 2 66
Inventories | Note 3 66
Other Current Assets | Note 4 66
Net Plant and Equipment | Note 5 67
Drafts Payable | Note 6 67
Environmental Liability | Note 7 68
Capital Leases | Note 8 68
Environment, Safety and Health (ES&H) Liability | Note 9 68

6. Procurement and Property Management 69

Requisitions Submitted by Laboratory Divisions | Table 6.1 70
Purchases Placed Using Purchase Orders/Subcontracts | Table 6.2 71
Purchases Placed Using P-Card | Table 6.3 71
Laboratory Socioeconomic Performance | Table 6.4 71
Property Management Activity | Table 6.5 72

7. Acronyms and Key Terms 73

Chief Financial Officer's Statement

FY2010 was an extraordinary year. The Laboratory welcomed its seventh Director, Dr. Paul Alivisatos, who wasted no time communicating his vision and priorities for Berkeley Lab. They include five very ambitious initiatives: Carbon Cycle 2.0, The Next Generation Light Source, a Safe and Efficient Lab, Building Community, and Space. In response, the Office of the Chief Financial Officer (OCFO) developed twelve specific initiatives that align completely with these five priorities. We will be very focused on these in the coming fiscal year, but for now, let's review what happened in FY2010.

Discovery

In March, a review team consisting of CFOs from other national laboratories, industry, and members of the University of California Office of the President (UCOP) convened for three days to conduct a comprehensive peer review of the OCFO. This was the first time in almost a decade that the financial operations of the Laboratory had been reviewed. The Committee relayed their observations on our strengths, and their very thoughtful recommendations for improvement, which we are actively pursuing. These improvements, when implemented, will benefit the entire Laboratory for many years to come. The complete report is available on the OCFO website (www.lbl.gov/Workplace/CFO).

In August, the senior management team of the OCFO participated in a strategic planning retreat. The purpose of the two and a half day exercise was, of course, to update our strategic plan, but instead of spending days developing a written document, we enlisted the expertise of a seasoned journalist who also happens to be a very talented graphic artist. He listened carefully to our ideas and committed them to a visual roadmap. All members of the OCFO, Business Managers, and the Laboratory Leadership Team reviewed this draft roadmap. By having a completely visual strategic plan that is posted widely throughout the OCFO, all employees can easily see and identify with the goals that we are all working towards.

Accomplishment

FY2010 was a pivotal year for the Procurement and Property Department. A provision of the management contract that was signed fives years ago required us to achieve cost savings of $30M. I am proud to announce that this last fiscal year we reached that goal, in large part due to the implementation of eBuy, and the negotiation of strategic sourcing contracts.

Our last wall-to-wall inventory exceeded all the Department of Energy's (DOE) national targets and DOE approved the LBNL property system unconditionally. Of the total inventory, 92.3% or 25,601 assets were accounted for using barcode scanning that made the inventory process much more efficient.

The effective management of the American Recovery and Reinvestment Act (ARRA) funds was strengthened by the continued successful partnership that LBNL shares with our DOE Site Office. They provided authority, support and clarity to this very complex task. The Laboratory's ARRA Stimulus Committee played a critical role in assuring internal controls, compliance with DOE regulations and quality financial management. The LBNL Budget Officer led a DOE complex-wide effort to identify and share how various DOE facilities track and report ARRA-funded projects, share best practices, evaluate issues and discuss solutions. LBNL has been recognized as a leader in this process and will continue

to share knowledge and best practices with other DOE laboratories.

Continuous education of our staff as well as the greater Laboratory population was still a major focus of the OCFO. With the help of many OCFO senior managers and staff that acted as subject-matter experts, the Core Financial Management Program was completely re-engineered and resulted in a revised classroom and web-based curriculum that will be formally rolled out Lab-wide in early FY2011.

The Office of Sponsored Projects and Industry Partnerships (OSPIP) led the effort to select and purchase four Click Commerce software modules for the LBNL electronic Scientific Research Administration (eSRA) project. In early FY2010, the implementation of the Institutional Review Board (IRB) module, responsible for the human subjects review process, began and should be completed in early FY2011. OSPIP also began implementation of the grants and contracts module and we expect an early go-live of "Grants Express" in mid-FY2011 with a full completion date in FY2012.

Challenge for the Future

The peer review's most substantial recommendation for improvement involved the Laboratory's central financial systems. To quote: "financial reporting system is outdated and inadequate. There is an inability to easily extract data; the field has little confidence in data; people spend more time mining data than analyzing data; requires field users to create & rely upon shadow systems; causes proliferation of program administrators and resource analysts. These issues impact the quality & execution of research; and the data warehouse lacks understanding & ownership."

Resolving these findings is likely one of the highest cost savings opportunities.

To meet this challenge, the OCFO began implementing a multi-year financial system modernization project (FSM) to enhance end-to-end processes in areas such as Procure-to-Pay, Proposal-to-Closeout, Budget-to-Cost, Time Reporting and Payroll, Travel and Conferences, and Decision Support. The Project Team has been evaluating and will be selecting a subcontractor who will assess our current state, document stakeholder needs, re-engineer high priority business and financial processes, develop requirements and a roadmap for process and applications modernization, and develop a plan for governance and organizational change management.

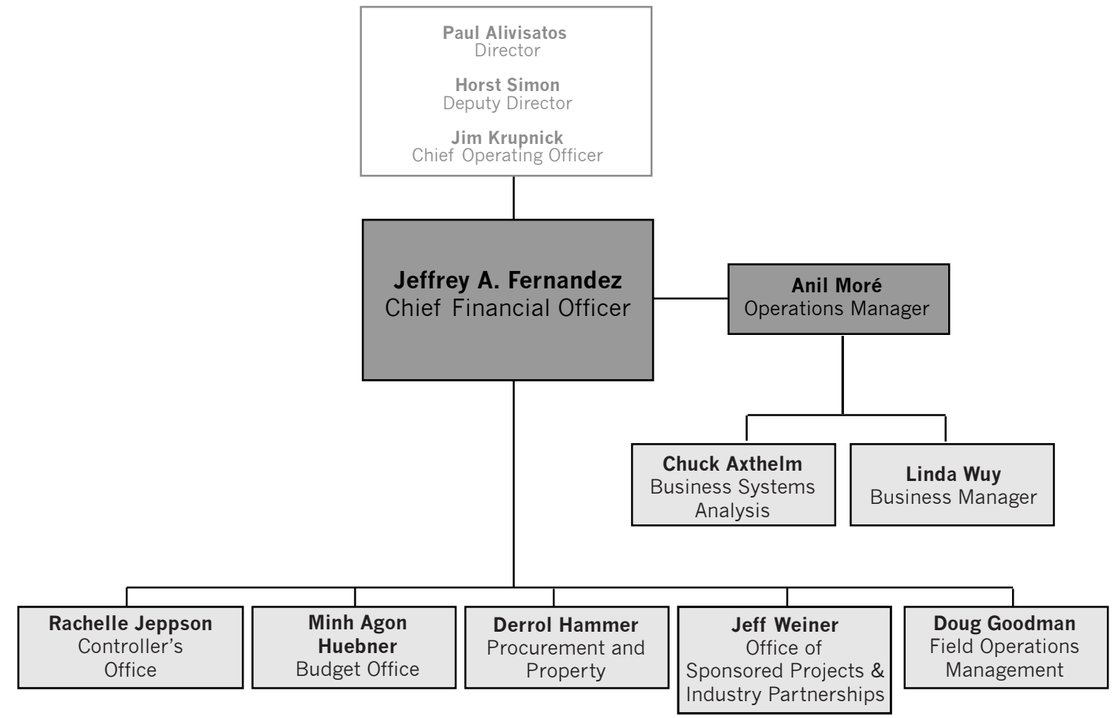
This project is a once-in-a-decade undertaking that is scheduled to be complete by FY2013 and the full return on investment will be realized within several years.

I look forward to the coming year with great anticipation as the beginning of significant improvements and efficiencies to enhance the service OCFO provides to the scientific community.

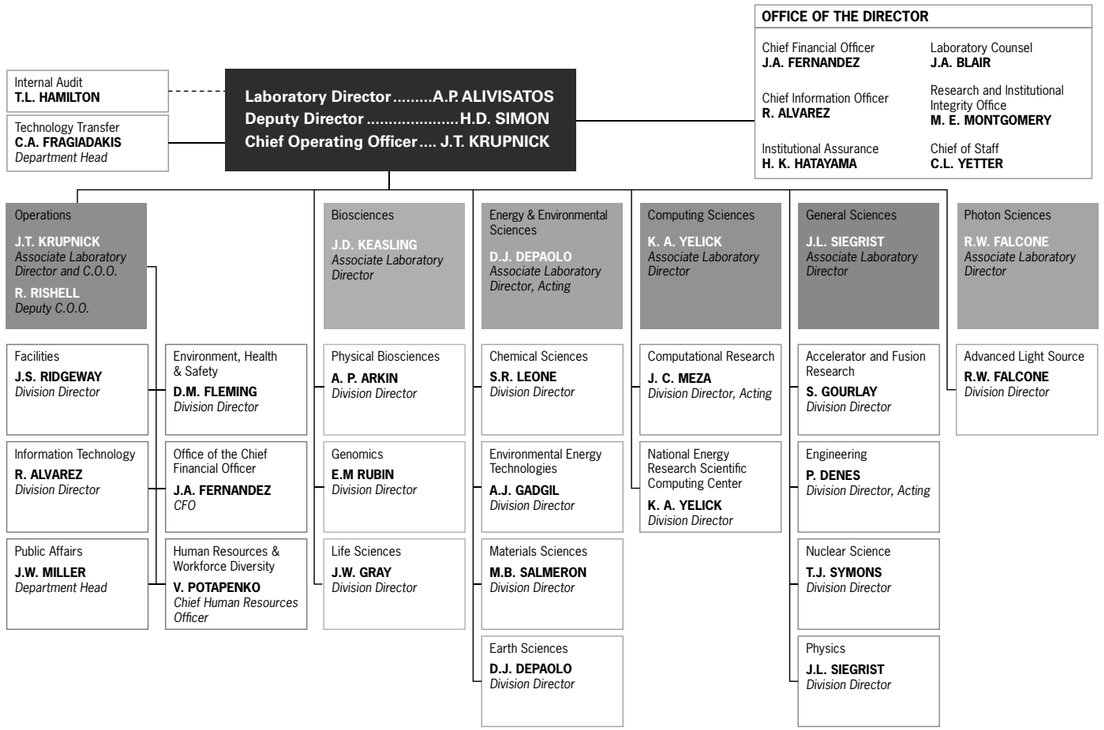
Sincerely,

Jeffrey A. Fernandez
Chief Financial Officer

Office of the Chief Financial Officer



Lawrence Berkeley National Laboratory (LBNL), University of California



1. Institutional Information

Figure 1.1

Where Did Your Program Dollars Go in FY2010?

Expenses	LBNL Cost Breakdown per Dollar			
	DOE Operating Costs	DOE Integrated Contractors Costs	Construction and Equipment	WFO Non-DOE
DIRECT:				
Direct Labor				
UC Labor (a)	$0.32	$0.37	$0.09	$0.35
Contract Labor	$0.00	$0.00	$0.00	$0.00
Organizational Burden (b)	$0.05	$0.06	$0.01	$0.07
Subtotal Direct Labor	**$0.37**	**$0.43**	**$0.11**	**$0.42**
Other Direct				
Services	$0.24	$0.11	$0.40	$0.15
Materials	$0.10	$0.05	$0.42	$0.09
Utilities	$0.01	$0.00	$0.00	$0.01
Other Expenses (c)	$0.00	$0.01	$0.00	$0.01
Recharges (b,d)	$0.01	$0.11	$0.01	$0.03
Travel	$0.02	$0.01	$0.00	$0.02
Subtotal Other Direct	**$0.39**	**$0.29**	**$0.83**	**$0.31**
Total Direct	**$0.77**	**$0.72**	**$0.94**	**$0.72**
INDIRECT:				
Procurement	$0.01	$0.01	$0.02	$0.01
Travel	$0.00	$0.00	$0.00	$0.00
G&A (Other Institutional)	$0.22	$0.27	$0.04	$0.26
Total Indirect	**$0.23**	**$0.28**	**$0.06**	**$0.28**
TOTAL EXPENSES	**$1.00**	**$1.00**	**$1.00**	**$1.00**

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).
(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

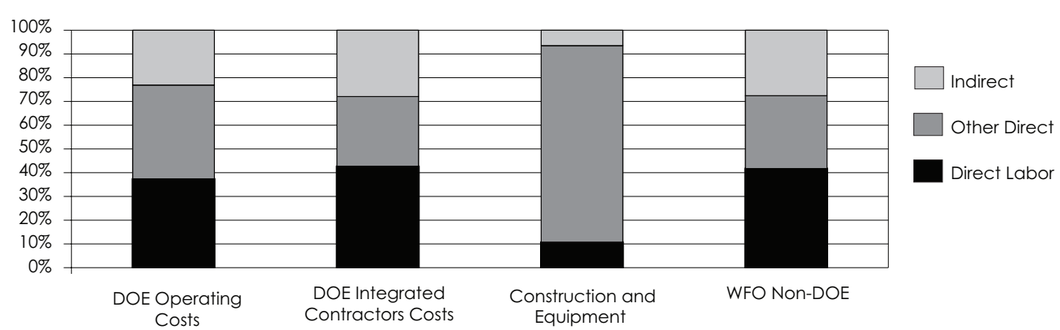


Table 1.1

Cost Trends by Expense Category, FY2006 - FY2010 ($M and % of Total)

	FY 2006		FY 2007		FY 2008		FY 2009		FY 2010	
Expenses	$M	%	$M	%	$M	%	$M	%	$M	%
DIRECT:										
Direct Labor										
UC Labor (a)	175.4	33.9%	180.3	34.9%	191.7	32.5%	206.8	31.9%	237.2	29.2%
Contract Labor	0.9	0.2%	1.3	0.3%	1.2	0.2%	1.9	0.3%	1.4	0.2%
Organizational Burden (b)	29.2	5.6%	29.8	5.8%	30.4	5.2%	33.0	5.1%	37.1	4.6%
Subtotal Direct Labor	**205.6**	**39.7%**	**211.4**	**40.9%**	**223.3**	**37.9%**	**241.7**	**37.3%**	**275.7**	**34.0%**
Other Direct										
Services	91.7	17.7%	84.0	16.3%	117.2	19.9%	140.7	21.7%	203.3	25.1%
Materials	68.4	13.2%	68.0	13.2%	82.1	13.9%	78.3	12.1%	120.6	14.9%
Utilities	5.1	1.0%	6.2	1.2%	7.3	1.2%	8.0	1.2%	8.3	1.0%
Other Expenses (c)	1.9	0.4%	2.7	0.5%	2.8	0.5%	4.0	0.6%	4.5	0.6%
Recharges (b,d)	10.6	2.0%	8.4	1.6%	8.9	1.5%	14.1	2.2%	14.3	1.8%
Travel	9.8	1.9%	7.9	1.5%	9.4	1.6%	9.3	1.4%	11.7	1.4%
Subtotal Other Direct	**187.4**	**36.2%**	**177.2**	**34.3%**	**227.7**	**38.6%**	**254.4**	**39.3%**	**362.8**	**44.7%**
Total Direct	**393.0**	**76.0%**	**388.5**	**75.2%**	**451.0**	**76.5%**	**496.0**	**76.6%**	**638.5**	**78.7%**
INDIRECT:										
Procurement	7.5	1.5%	7.4	1.4%	8.2	1.4%	7.3	1.1%	8.5	1.0%
Travel	0.8	0.2%	0.9	0.2%	1.2	0.2%	1.3	0.2%	1.5	0.2%
G&A (Other Institutional)	115.8	22.4%	119.6	23.2%	129.2	21.9%	143.0	22.1%	162.5	20.0%
Total Indirect	**124.2**	**24.0%**	**127.8**	**24.8%**	**138.5**	**23.5%**	**151.7**	**23.4%**	**172.5**	**21.3%**
TOTAL EXPENSES	**517.2**	**100.0%**	**516.4**	**100.0%**	**589.5**	**100.0%**	**647.7**	**100.0%**	**811.1**	**100.0%**

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous 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, FY2006 - FY2010 ($K)

Division	FY2006	FY2007	FY2008	FY2009	FY2010
Accelerator & Fusion Research	25,595	28,099	26,042	28,139	39,175
Advanced Light Source	44,180	48,906	51,508	49,662	57,656
Chemical Sciences	12,554	14,877	17,002	15,694	17,715
Computing Sciences (a)	79,614	77,355	101,133	103,461	128,123
Environmental Energy Technologies	53,052	45,763	52,004	58,795	82,493
Engineering	5,408	8,429	13,351	8,306	5,929
EH&S	7,360	5,493	3,490	3,270	2,806
Earth Sciences	31,036	29,856	31,027	34,240	44,300
Facilities	31,492	12,244	17,076	43,839	64,299
Genomics	9,733	10,437	8,731	6,208	5,994
Genomics - JGI	43,105	45,461	50,839	51,135	77,375
Information Technology (a)	3,852	3,391	3,634	3,100	3,380
Life Sciences	47,788	51,929	56,872	59,835	62,290
Materials Sciences	40,048	50,657	55,835	63,386	72,722
Nuclear Science	26,501	28,098	26,774	33,566	34,598
Physical Biosciences	29,167	25,228	44,219	52,015	66,258
Physics	26,978	30,373	29,984	32,139	44,751
Lab Directorate/Other	752	730	858	903	1,112
Other (b)	(1,060)	(947)	(880)	58	88
DIVISION TOTAL	**517,155**	**516,382**	**589,499**	**647,749**	**811,062**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.
(b) Primarily Work for Other charge to offset Safeguards and Security activities FY 2006 - FY2008. In FY2009, Safeguards and Security Work for Other charge was eliminated.

Table 1.2a

Costs by Direct Funding Source by Division, FY2010 ($K)

Division	FY 2010						
	DOE Operating	DOE Integrated Contractors Costs	WFO Federal	WFO Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	20,545	828	1,791	1,251	24,415	14,760	39,175
Advanced Light Source	49,856	185	0	1,659	51,700	5,955	57,656
Chemical Sciences	14,198	12	1,906	47	16,163	1,552	17,715
Computing Sciences (a)	106,470	2,545	1,502	1,250	111,768	16,355	128,123
Environmental Energy Technologies	58,187	2,489	7,382	13,390	81,448	1,045	82,493
Engineering	221	977	2,770	1,152	5,120	808	5,929
EH&S	2,806	0	-	-	2,806	-	2,806
Earth Sciences	30,766	1,345	3,325	8,582	44,017	283	44,300
Facilities	20,275	-	-	-	20,275	44,023	64,299
Genomics	542	-	4,183	1,270	5,994	-	5,994
Genomics - JGI	70,087	-	121	1,555	71,762	5,612	77,375
Information Technology (a)	2,687	-	-	86	2,774	606	3,380
Life Sciences	10,558	-	40,663	10,151	61,372	919	62,290
Materials Sciences	53,532	191	2,288	5,871	61,882	10,840	72,722
Nuclear Science	20,564	293	3,255	2,380	26,492	8,106	34,598
Physical Biosciences	51,004	942	4,433	6,180	62,560	3,699	66,258
Physics	28,840	1,091	149	1,359	31,439	13,311	44,751
Lab Directorate/Other	1,092	19	-	-	1,111	-	1,112
Other	-	88	-	-	88	-	88
DIVISION TOTAL	**542,228**	**11,007**	**73,768**	**56,184**	**683,187**	**127,875**	**811,062**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

Table 1.2b

Costs By Direct Funding Source by Division, FY2009 ($K)

Division	FY 2009						
	DOE Operating	DOE Integrated Contractors Costs	WFO Federal	WFO Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	20,258	843	1,578	611	23,290	4,849	28,139
Advanced Light Source	45,784	38	0	806	46,628	3,034	49,662
Chemical Sciences	13,936	63	638	76	14,713	980	15,694
Computing Sciences (a)	88,264	2,153	2,004	1,347	93,767	9,694	103,461
Environmental Energy Technologies	36,375	2,992	5,631	12,220	57,218	1,577	58,795
Engineering	2,995	779	1,225	206	5,205	3,101	8,306
EH&S	3,270	0	0	0	3,270	-	3,270
Earth Sciences	23,618	1,579	3,055	5,101	33,353	887	34,240
Facilities	9,391	-	-	-	9,391	34,448	43,839
Genomics	2,787	-	3,291	130	6,208	-	6,208
Genomics - JGI	46,567	-	349	1,275	48,192	2,943	51,135
Information Technology (a)	2,324	-	-	49	2,373	726	3,100
Life Sciences	13,178	-	39,023	7,165	59,367	469	59,835
Materials Sciences	48,000	232	940	7,490	56,663	6,723	63,386
Nuclear Science	18,909	176	2,906	3,510	25,501	8,065	33,566
Physical Biosciences	42,366	1,034	3,699	4,611	51,709	306	52,015
Physics	23,160	1,067	415	215	24,857	7,283	32,139
Lab Directorate/Other	861	-	-	41	903	-	903
Other	-	58	-	-	58	-	58
DIVISION TOTAL	**442,043**	**11,015**	**64,754**	**44,854**	**562,665**	**85,084**	**647,749**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.

Table 1.2c

Costs By Direct Funding Source by Division, FY2008 ($K)

Division	FY 2008						
	DOE Operating	DOE Integrated Contractors Costs	WFO Federal	WFO Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	19,426	1,514	1,441	799	23,180	2,862	26,042
Advanced Light Source	44,552	7	0	865	45,424	6,084	51,508
Chemical Sciences	14,236	75	599	79	14,990	2,012	17,002
Computing Sciences (a)	87,106	2,895	1,464	1,227	92,693	8,440	101,133
Environmental Energy Technologies	30,890	1,513	5,701	12,797	50,901	1,103	52,004
Engineering	2,814	213	322	516	3,865	9,485	13,351
EH&S	3,490	-	-	-	3,490	-	3,490
Earth Sciences	21,996	2,171	1,339	4,681	30,186	841	31,027
Facilities	4,174	-	-	-	4,174	12,902	17,076
Genomics	2,522	-	6,043	34	8,599	132	8,731
Genomics - JGI	45,068	301	357	945	46,671	4,168	50,839
Information Technology (a)	2,455	-	-	45	2,500	1,134	3,634
Life Sciences	11,452	20	36,844	6,876	55,191	1,680	56,872
Materials Sciences	42,030	123	1,004	7,238	50,396	5,439	55,835
Nuclear Science	17,280	90	2,296	3,533	23,199	3,575	26,774
Physical Biosciences	33,778	515	6,071	3,761	44,126	93	44,219
Physics	22,481	791	715	353	24,341	5,644	29,984
Lab Directorate/Other	743	-	-	115	858	-	858
Other (b)	(947)	68	-	-	(880)	-	(880)
DIVISION TOTAL	**405,548**	**10,296**	**64,195**	**43,864**	**523,904**	**65,595**	**589,499**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.
(b) Primarily Work for Other charge to offset Safeguards and Security activities.

Table 1.2d

Costs By Direct Funding Source by Division, FY2007 ($K)

Division	FY 2007						
	DOE Operating	DOE Integrated Contractors Costs	WFO Federal	WFO Non-Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	20,818	660	2,662	1,469	25,609	2,490	28,099
Advanced Light Source	42,453	13	0	809	43,275	5,632	48,906
Chemical Sciences	12,457	0	704	115	13,276	1,601	14,877
Computing Sciences (a)	67,615	2,902	1,376	1,202	73,096	4,259	77,355
Environmental Energy Technologies	24,583	1,596	6,549	12,406	45,135	628	45,763
Engineering	3,086	144	428	580	4,238	4,192	8,429
EH&S	5,397	-	-	-	5,397	96	5,493
Earth Sciences	17,466	6,486	1,838	3,886	29,676	180	29,856
Facilities	1,772	-	-	-	1,772	10,473	12,244
Genomics	2,546	-	7,739	88	10,373	64	10,437
Genomics - JGI	40,337	1,843	371	1,338	43,890	1,572	45,461
Information Technology (a)	2,384	-	-	-	2,384	1,007	3,391
Life Sciences	10,033	125	33,766	7,082	51,006	923	51,929
Materials Sciences	39,670	12	1,222	5,292	46,196	4,461	50,657
Nuclear Science	15,582	36	2,563	7,016	25,198	2,900	28,098
Physical Biosciences	12,676	386	7,580	4,135	24,777	451	25,228
Physics	19,573	474	485	335	20,868	9,505	30,373
Lab Directorate/Other	730	-	-	-	730	-	730
Other (b)	(1,018)	70	-	-	(947)	-	(947)
DIVISION TOTAL	**338,161**	**14,747**	**67,284**	**45,755**	**465,947**	**50,435**	**516,382**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.
(b) Primarily Work for Other charge to offset Safeguards and Security activities.

Table 1.2e

Costs By Direct Funding Source by Division, FY2006 ($K)

Division	FY 2006						
	DOE Operating	DOE Integrated Contractors Costs	WFO Federal	WFO Non Federal	Operating Subtotal	Capital and Equipment	Total
Accelerator & Fusion Research	18,506	499	2,054	3,049	24,108	1,487	25,595
Advanced Light Source	36,269	180	0	928	37,377	6,803	44,180
Chemical Sciences	11,440	12	101	70	11,623	931	12,554
Computing Sciences (a)	67,768	4,463	3,129	489	75,849	3,765	79,614
Environmental Energy Technologies	29,091	1,597	6,991	14,522	52,201	851	53,052
Engineering	1,530	479	808	798	3,615	1,793	5,408
EH&S	6,469	0	0	0	6,469	890	7,360
Earth Sciences	17,932	6,000	2,777	3,601	30,310	727	31,036
Facilities	3,006	6	-	-	3,011	28,481	31,492
Genomics	1,759	-	7,175	141	9,075	658	9,733
Genomics - JGI	35,543	1,171	1,713	2,410	40,837	2,268	43,105
Information Technology (a)	2,678	-	-	-	2,678	1,175	3,852
Life Sciences	11,153	5	29,941	6,607	47,707	81	47,788
Materials Sciences	30,688	38	1,327	5,233	37,287	2,761	40,048
Nuclear Science	15,536	74	1,885	7,423	24,918	1,583	26,501
Physical Biosciences	12,412	652	10,606	4,369	28,039	1,128	29,167
Physics	15,626	684	942	673	17,926	9,052	26,978
Lab Directorate/Other	754	(2)	-	-	752	-	752
Other (b)	(887)	-	-	-	(887)	(173)	(1,060)
DIVISION TOTAL	**317,272**	**15,859**	**69,449**	**50,312**	**452,892**	**64,262**	**517,155**

Note: Minor variances may occur due to rounding.
(a) Computational Research, NERSC Center as well as the ESnet portion of Information Technology became part of Computing Sciences in FY2006.
(b) Primarily Work for Other charge to offset Safeguards and Security activities. In FY2006 LDRD Equipment is indirectly funded.

Table 1.3

Indirect Budget Costs by Division, FY2010 ($K)

Division	Distributed Support Costs			Institutional Costs						Total (a)
	Org. Burden	Service Centers (b)	Other (c)	LDRD	IGPP	G&A	Procurement Burden	Site Support	Travel Burden	
Accelerator & Fusion Research	1,649	162	271	2,984	-	-	-	-	-	5,067
Advanced Light Source	2,189	-	-	2,414	-	-	-	-	-	4,603
Chief Financial Officer Organization	-	-	-	-	-	8,546	8,550	-	1,726	18,822
Chemical Sciences	1,048	-	-	1,008	-	-	-	-	-	2,056
Computing Sciences	5,590	-	-	1,973	-	-	-	-	-	7,564
Environmental Energy Technologies	4,420	1,496	-	1,188	-	-	-	-	-	7,104
Engineering	4,738	1,497	-	365	-	1,151	-	1,355	-	9,106
EH&S	-	-	-	-	-	-	-	25,374	-	25,374
Earth Sciences	3,452	-	-	1,800	-	-	-	211	-	5,463
Facilities	4,172	10,871	-	-	-	-	2,406	38,255	-	55,703
Genomics	449	-	-	-	-	-	-	-	-	449
Genomics - JGI	-	-	-	547	-	-	-	-	-	547
Information Technology	3,102	6,896	-	-	-	15,493	39	9,082	-	34,613
Lab Directorate	-	-	-	-	-	11,510	-	-	-	11,510
Life Sciences	5,497	550	-	2,522	-	-	-	-	-	8,569
Materials Sciences	3,649	234	-	2,217	-	-	-	-	-	6,100
Nuclear Science	1,664	-	-	961	-	-	-	-	-	2,625
ALD for Operations	-	4,392	-	-	5,147	10,732	-	11,958	-	32,229
Physical Biosciences	2,645	3,872	-	1,396	-	-	-	-	-	7,912
Physics	1,565	-	-	1,180	-	-	-	-	-	2,744
Other (d)	-	-	-	-	-	7,112	-	-	-	7,112
DIVISION TOTAL	**45,829**	**29,970**	**271**	**20,553**	**5,147**	**54,545**	**10,996**	**86,234**	**1,726**	**255,270**

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 close to B&R YN01 (project type OHRCH) only and GSRA pass through cost.
(c) Includes: LBNL'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, FY2010 ($K)

Division	Direct funded FTEs				Indirect Funded FTEs				Total FTEs
	DOE Operating (a)	WFO (b)	Capital & Equipment	Direct Funded Total	Org. Burden	Service Centers (c)	Operations Overhead (d)	Indirect Funded Total	
Accelerator & Fusion Research	73.4	8.5	30.6	112.5	10.1	0.5	10.6	21.2	133.7
Advanced Light Source	176.9	0.7	13.0	190.6	14.6	-	10.9	25.6	216.1
Chief Financial Officer Organization	0.0	-	-	0.0	-	-	144.1	144.1	144.1
Chemical Sciences	62.9	4.1	0.6	67.6	7.0	-	4.9	11.9	79.4
Computing Sciences	172.2	8.0	-	180.3	39.8	-	8.8	48.6	228.9
Environmental Energy Technologies	169.5	68.1	-	237.6	29.8	10.4	5.7	45.9	283.5
Engineering	3.6	9.8	1.4	14.9	26.2	8.6	10.7	45.5	60.4
EH&S	3.7	-	-	3.7	-	-	120.1	120.1	123.8
Earth Sciences	102.4	37.9	0.0	140.4	16.6	-	7.3	23.9	164.3
Facilities	5.9	-	21.7	27.6	24.1	4.9	164.7	193.7	221.3
Genomics	2.3	19.1	-	21.5	3.1	-	1.9	5.0	26.5
Genomics - JGI	184.8	5.9	-	190.8	0.0	-	1.1	1.1	191.9
Information Technology	6.1	0.0	-	6.1	15.5	25.9	102.6	144.0	150.1
Lab Directorate	0.9	-	-	0.9	-	-	54.8	54.8	55.7
Life Sciences	43.1	166.0	-	209.1	42.7	3.9	9.3	55.9	265.0
Materials Sciences	233.7	36.4	3.0	273.1	21.6	1.4	14.2	37.2	310.3
Nuclear Science	81.8	20.0	7.9	109.7	11.2	-	4.1	15.2	124.9
ALD for Operations	2.0	-	-	2.0	-	11.6	89.1	100.8	102.7
Physical Biosciences	152.7	37.6	0.1	190.4	20.2	0.6	9.5	30.3	220.7
Physics	87.6	5.0	11.9	104.4	10.6	-	4.4	15.0	119.4
DIVISION TOTAL	**1,565.7**	**427.1**	**90.1**	**2,082.9**	**293.1**	**67.7**	**779.1**	**1,139.9**	**3,222.8**

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 Paid Leave Factor (PLF).
- FTE calculation does not include Contract Labor or Campus Labor.
- Total FTE excludes 39.3 FTEs from "Funds Held for Others Costs" projects (see Table 1.5 for examples).

(a) DOE Operating includes DOE Integrated Contractors and Fellowships.
(b) WFO includes CRADA.
(c) Service Centers includes recharge cost centers that close to B&R YN01 (project type OHRCH) only.
(d) Operations Overhead includes: G&A, Site Support, LDRD, Institutional General Plant Projects (IGPP), Procurement, Travel, Payroll Burden, and LBNL's Office of Homeland Security.

Table 1.5

Funds Held for Others Cost Trends, FY2006 - FY2010 ($K)

Funding Source	FY2006	FY2007	FY2008	FY2009	FY2010
Royalty	1,809	2,031	1,678	1,509	2,153
Contractor-Funded Institutional Supporting Research and Development	418	2,537	2,940	2,839	2,909
Inter-Location Appointments (ILA)	1,402	2,089	2,960	3,478	3,233
UC Construction Projects	-	625	1,126	1,170	358
University of California Directed Research and Development (UCDRD)	165	-	-	-	-
Other	79	44	303	98	170
TOTAL	**3,873**	**7,326**	**9,007**	**9,094**	**8,823**
Note: Minor variances may occur due to rounding.					

Direct Funding — DOE and Reimbursable Work

Total Laboratory Funding – $61.3M Decrease

Total funding decreased 7%, to $846.9M in FY2010. This was primarily due to the ramp down impact of (one-time) American Recovery and Reinvestment Act (ARRA) funding level year over year of $117.6M. Non-ARRA funds increased by $56.3M primarily due to increased funding from the DOE Office of Energy Efficiency and Renewable Energy (EERE) and non-DOE sponsors.

DOE Operating and Maintenance (O&M) Funding – $77.5M Decrease

O&M funding provides for the execution of research and development efforts, purchase of equipment, accelerator improvement projects and construction of general plant projects. The decrease in ARRA funding drove the net decrease.

Office of Science

Office of Science (SC) O&M funding dropped $156.1M in FY2010 due to lower levels of ARRA funding, notably in the following areas:

- Advanced Scientific Computing Research (ASCR) program in the Advanced Network Initiative and the Magellan Cloud Computing Projects.
- Office of Science's Science Laboratories Infrastructure (SLI) program related to the Building 51/Bevatron Demolition project and General Purpose Plant (GPP) projects.
- Office of Science's High Energy Physics program associated with Advanced Plasma Acceleration Facility (BELLA).
- Basic Energy Sciences (BES) Advanced Light Source projects.
- Fusion Energy Sciences (FES) HEDLP NDCX-II project.

Energy Efficiency and Renewable Energy (EERE)

While Office of Science funding declined in comparison to FY2009, the EERE program increased LBNL funding by $63.3M. In FY2010, EERE provided significant ARRA funds and increased non-ARRA funds reflecting DOE support of LBNL's Carbon Cycle 2.0 initiative. This initiative takes a multidisciplinary approach to develop ways to restore balance in Earth's carbon cycle.

Significant FY2010 EERE funding increases were in the following areas:

- Advanced Biofuels Process Development Unit (PDU) – a Bioenergy Research Center Collaboration User Facility – which will translate technologies developed by the Joint Bioenergy Institute (JBEI) and other Bioenergy Research Centers (BRCs) beyond laboratory scale to facilitate commercialization.
- Joint Center for Artificial Photosynthesis (JCAP).
- Building Technologies program related to:
    - Integrated Systems Research in support of the Commercial Buildings Initiative
    - Residential Buildings projects
    - Building Technologies Emerging Technologies Research and Development.

Other DOE

Various other DOE programs provided a net O&M funding increase of $15.3M including:

- The Advanced Research Projects Agency-Energy (ARPA-E) program primarily for research on carbon dioxide capture and biofuel production from carbon dioxide.
- The Fossil Energy program for projects supporting carbon capture, storage and reduction.

DOE Construction Funding – $6.4M Decrease

Line Item construction funding primarily decreased by SC and EERE changes.

Line Item Construction ($M)	FY2009	FY2010	Change
SC ARRA - Advanced LIght Source (ALS) User Support Building	14.5	-	(14.5)
SC ARRA - Phase 2 of Seismic Safety Building Upgrade	15.0	-	(15.0)
EERE ARRA - National User Test Bed Facility*	-	15.7	15.7
Non-ARRA Science - Phase 2 of Seismic Safety Building Upgrade	-	7.4	7.4
Total Line Item Construction	**29.5**	**23.1**	**(6.4)**

*The National User Test Bed Facility allows LBNL to address key challenges for existing low energy and net-zero energy (NZE) buildings.

Direct Funding — DOE and Reimbursable Work Continued

Other Direct Operating Funding [1] – Increased $22.6M

The funding increase was split between Other Federal Agencies and Non-Federal sponsors. Funding for Cooperative Research and Development Agreements (CRADAs) and other DOE Integrated Contractors was essentially flat.

Other Federal Agencies increased $12.4M primarily driven by the following major changes:

- Funding deobligations completed in FY2009 as a result of the Legacy Balance Clean-up Project were not repeated in FY2010.
- NIH awarded LBNL ARRA funds to the Chemical Sciences, Genomics, Life Sciences, and Physical Biosciences Divisions for health research in the following areas, but not limited to: cancer, radiation exposure, neurodegenerative and coronary artery diseases.

Non-Federal Sponsors increased $10.2M based on the following major changes:

- The State and Local Governments category increased due to additional California Energy Commission (CEC) funding to the Environmental Energy Technologies Division (EETD) for work related to Indoor and Outdoor Environmental Quality and Buildings Energy Efficiency.
- The Universities and Institutes category increased primarily from three new awards:
    - The Life Sciences Division from Stanford University funded by the Biomedical Advanced Research and Development Authority (BARDA) for research related to radiation exposure.
    - The Life Sciences Division from the University of California, Los Angeles, funded by the Stand Up To Cancer initiative for breast cancer research.
    - The Joint Genome Institute (JGI) from the University of Florida for the first phase of the International Citrus Genome Project.

Data Sources for Tables in this section are as follows:

Data Type	Source
FY2010 Beginning Uncosted Obligations	Carryover Funding as provided in the LBNL final FY2009 Contract Modification (GSO)
FY2010 Funds	Budget Authority as provided in the LBNL contract modification for the fiscal year
FY2010 Costs	LBNL published Fiscal Year End Costs
FY2010 Ending Uncosted Obligations	DOE - Beginning Uncosted + Funds – Costs WFO - The sum of FY2010 Beginning Uncosted, FY2010 Funds and FY2010 Costs for the "Other Direct Operating" categories does not equal FY2009 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include Bridge Funding, suspense items, and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1.9M).

1. FY2010 ARRA National Institutes of Health and National Science Foundation awards were obligated to LBNL by DOE as work for a Non-Federal entity to accommodate OMB apportionment requirements for ARRA. As a result, LBNL funding is based on cash payments and will continue to be obligated until the projects are complete. Although DOE obligated these awards as work for a Non-Federal entity, 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.

Table 2.1

LBNL Funding Trends (BA) by Funding Source ($K)

Funding Source	FY2006	FY2007	FY2008	FY2009	FY2010 (a)
DOE DIRECT OPERATING					
Administrator for National Nuclear Security Administration	6,045	5,387	5,179	5,863	7,082
Assistant Secretary for Energy Efficiency and Renewable Energy	20,516	26,520	27,102	43,507	98,411
Assistant Secretary for Environmental Management	3,861	1,709	-	425	2,675
Assistant Secretary for Fossil Energy	7,017	6,328	8,124	10,668	13,750
Assistant Secretary for Nuclear Energy	-	-	788	825	1,545
Assistant Secretary for Policy and International Affairs	10	(0)	65	100	741
Office of Civilian Radioactive Waste Management	2,331	1,387	-	35	(1)
Office of Electricity Delivery and Energy Reliability	4,486	7,213	4,970	7,427	10,042
Office of Energy and Threat	-	-	65	300	(65)
Office of Health Safety and Security	611	564	413	385	150
Office of Intelligence	-	-	-	-	-
Office of Science	299,606	329,097	371,361	503,087	448,488
Office of the Chief Financial Officer (ARPA-E Projects)	(1)	-	-	28	5,297
Office of the Chief Information Officer	(0)	-	-	-	460
Technical Analysis	-	(0)	-	-	-
Total DOE Direct Operating	**344,482**	**378,206**	**418,067**	**572,649**	**588,576**
OTHER DIRECT OPERATING (b)					
Work for Other Federal Agencies	60,209	83,164	61,640	56,474	68,928
Work for Non-Federal Sponsors (c)	57,078	38,529	43,882	48,816	58,998
Cooperative Research and Development Agreements	633	(1,419)	539	505	482
Work for Other DOE Integrated Contractors (d)	15,859	14,747	10,296	11,015	11,007
Total Other Direct Operating	**133,779**	**135,020**	**116,357**	**116,810**	**139,413**
TOTAL OPERATING	**478,260**	**513,226**	**534,424**	**689,458**	**727,989**

Note: Minor variances may occur due to rounding.
Data Source: Budget Authority (BA) as provided in the LBNL final contract modification for the fiscal year.
(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA funds received were categorized as: Operating ($76,191K) and Plant and Equipment ($19,909K).
See Table 3.1 for details.
(b) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL 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 funding for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.
(d) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

continued...

Table 2.1

LBNL Funding Trends (BA) by Funding Source ($K) Continued

Funding Source	FY2006	FY2007	FY2008	FY2009	FY2010 (a)
DOE PLANT AND EQUIPMENT					
Basic Equipment/Major Items of Equipment					
Administrator for National Nuclear Security Administration	450	340	2,205	340	-
Assistant Secretary for Energy Efficiency and Renewable Energy	345	496	1,097	65	8,482
Assistant Secretary for Environmental Management	-	(0)	-	-	
Assistant Secretary for Fossil Energy	(8)	(0)	-	-	
Office of Electricity Delivery and Energy Reliability	-	-	-	-	
Office of Intelligence	-	-	-	-	
Office of Science	33,211	41,243	58,836	132,728	53,902
Total Capital Equipment	**33,998**	**42,079**	**62,138**	**133,133**	**62,384**
General Plant Projects					
Office of Science	4,864	4,031	4,775	16,233	1,499
Total General Plant Projects	**4,864**	**4,031**	**4,775**	**16,233**	**1,499**
Accelerator Improvement Projects					
Office of Science	1,200	3,866	2,050	13,255	5,320
Total Accelerator Improvement Projects	**1,200**	**3,866**	**2,050**	**13,255**	**5,320**
Line-Item Construction					
Administrator for National Nuclear Security Administration	-	(1)	-	-	-
Assistant Secretary for Energy Efficiency and Renewable Energy	-	-	-	-	15,700
Office of Science	13,290	6,868	14,226	56,158	34,025
Total Line-Item Construction	**13,290**	**6,867**	**14,226**	**56,158**	**49,725**
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	**53,352**	**56,843**	**83,189**	**218,779**	**118,928**
TOTAL LABORATORY	**531,612**	**570,069**	**617,613**	**908,237**	**846,917**

Note: Minor variances may occur due to rounding.
Data Source: Budget Authority (BA) as provided in the LBNL final contract modification for the fiscal year.
(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA funds received were categorized as: Operating ($76,191K) and Plant and Equipment ($19,909K).
See Table 3.1 for details.

Table 2.2

LBNL Cost Trends by Funding Source ($K)

Funding Source	FY2006	FY2007	FY2008	FY2009	FY2010 (a)
DOE DIRECT OPERATING					
Administrator for National Nuclear Security Administration	6,078	6,194	5,703	5,853	7,232
Assistant Secretary for Energy Efficiency and Renewable Energy	22,337	18,050	24,059	28,387	57,400
Assistant Secretary for Environmental Management	3,603	2,293	242	341	1,969
Assistant Secretary for Fossil Energy	5,012	5,796	7,060	6,840	6,969
Assistant Secretary for Nuclear Energy	-	-	206	964	1,485
Assistant Secretary for Policy and International Affairs	4	6	-	66	96
Office of Civilian Radioactive Waste Management	3,000	1,154	2,078	222	39
Office of Electricity Delivery and Energy Reliability	5,761	4,339	4,242	6,015	7,353
Office of Energy and Threat	-	-	-	-	38
Office of Health Safety and Security	576	563	542	390	281
Office of Intelligence	-	-	-	-	-
Office of Science	270,841	299,767	361,416	392,951	459,035
Office of the Chief Financial Officer (ARPA-E Projects)	-	-	-	13	30
Office of the Chief Information Officer	-	-	-	-	299
Technical Analysis	59	-	-	-	-
Total DOE Direct Operating	**317,272**	**338,161**	**405,548**	**442,043**	**542,228**
OTHER DIRECT OPERATING (b)					
Work for Other Federal Agencies	69,449	67,284	64,195	64,754	73,768
Work for Non-Federal Sponsors (c)	49,670	45,627	43,412	44,604	55,399
Cooperative Research and Development Agreements	642	128	452	250	785
Work for Other DOE Integrated Contractors	15,859	14,747	10,296	11,015	11,007
Total Other Direct Operating (d)	**135,620**	**127,786**	**118,355**	**120,622**	**140,959**
TOTAL OPERATING	**452,892**	**465,947**	**523,904**	**562,665**	**683,187**

continued...

Table 2.2

LBNL Cost Trends by Funding Source ($K) Continued

Funding Source	FY2006	FY2007	FY2008	FY2009	FY2010 (a)
DOE PLANT AND EQUIPMENT:					
Basic Equipment/Major Items of Equipment					
Administrator for National Nuclear Security Administration	168	267	1,343	1,331	159
Assistant Secretary for Energy Efficiency and Renewable Energy	312	319	763	1,070	870
Assistant Secretary for Environmental Management	-	-	-	-	-
Assistant Secretary for Fossil Energy	9	-	-	-	-
Office of Electricity Delivery and Energy Reliability	-	-	-	-	-
Office of Intelligence	-	-	-	-	-
Office of Science	32,243	37,242	47,907	46,645	80,815
Total Capital Equipment	**32,733**	**37,828**	**50,013**	**49,045**	**81,844**
General Plant Projects					
Office of Science	4,135	6,082	4,340	5,098	11,853
Total General Plant Projects	**4,135**	**6,082**	**4,340**	**5,098**	**11,853**
Accelerator Improvement Projects					
Office of Science	2,453	2,038	2,680	1,268	1,865
Total Accelerator Improvement Projects	**2,453**	**2,038**	**2,680**	**1,268**	**1,865**
Line-Item Construction					
Administrator for National Nuclear Security Administration	-	-	-	-	-
Assistant Secretary for Energy Efficiency and Renewable Energy	-	-	-	-	91
Office of Science	24,941	4,487	8,561	29,673	32,223
Total Line-item Construction	**24,941**	**4,487**	**8,561**	**29,673**	**32,313**
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	**64,262**	**50,435**	**65,595**	**85,084**	**127,875**
TOTAL LABORATORY	**517,155**	**516,382**	**589,499**	**647,749**	**811,062**

Note: Minor variances may occur due to rounding.
Data Source: LBNL published Fiscal Year End Costs.
(a) Includes funding for American Recovery and Reinvestment Act (ARRA) in FY2010:
The FY2010 ARRA costs were categorized as: Operating ($51,114K), Plant and Equipment ($53,201K).
See Table 3.2 for details.
(b) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL 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 costs for Non-Federal Sponsors who are precluded by law from paying an advance under the WN02 program.
(d) FY2010 Costs do not include various adjustments. Examples of these adjustments include bridge funding, suspense items and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872 K).

Table 2.3

LBNL Funding and Costs by Funding Source ($K)

Funding Source	FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
DOE DIRECT OPERATING				
Administrator for National Nuclear Security Administration	3,125	7,082	7,232	2,975
Assistant Secretary for Energy Efficiency and Renewable Energy	32,724	98,411	57,400	73,735
Assistant Secretary for Environmental Management	1,056	2,675	1,969	1,761
Assistant Secretary for Fossil Energy	13,030	13,750	6,969	19,810
Assistant Secretary for Nuclear Energy	444	1,545	1,485	504
Assistant Secretary for Policy and International Affairs	99	741	96	743
Office of Civilian Radioactive Waste Management	87	(1)	39	48
Office of Electricity Delivery and Energy Reliability	7,309	10,042	7,353	9,998
Office of Energy and Threat	365	(65)	38	262
Office of Health Safety and Security	149	150	281	18
Office of Science	229,408	448,488	459,035	218,861
Office of the Chief Financial Officer (ARPA-E Projects)	15	5,297	30	5,282
Office of the Chief Information Officer	0	460	299	161
Total DOE Direct Operating	**287,810**	**588,576**	**542,228**	**334,158**
OTHER DIRECT OPERATING (a)				
Work for Other Federal Agencies	70,393	68,928	73,768	66,085
Work for Non-Federal Sponsors (b)	29,601	58,998	55,399	34,523
Cooperative Research and Development Agreements	596	482	785	310
Work for Other DOE Integrated Contractors (c)	0	11,007	11,007	0
Total Other Direct Operating (d)	**100,591**	**139,413**	**140,959**	**100,918**
TOTAL OPERATING	**388,401**	**727,989**	**683,187**	**435,076**

Note: Minor variances may occur due to rounding.

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL 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.

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

(c) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

(d) The sum of FY2010 Beginning Uncosted Obligations and FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872 K).

continued...

Table 2.3

LBNL Funding and Costs by Funding Source ($K) Continued

Funding Source	FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
DOE PLANT AND EQUIPMENT				
Basic Equipment/Major Items of Equipment				
Administrator for National Nuclear Security Administration	227	0	159	68
Assistant Secretary for Energy Efficiency and Renewable Energy	175	8,482	870	7,788
Office of Science	132,470	53,902	80,815	105,557
Total Capital Equipment	**132,873**	**62,384**	**81,844**	**113,413**
General Plant Projects				
Office of Science	14,897	1,499	11,853	4,543
Total General Plant Projects	**14,897**	**1,499**	**11,853**	**4,543**
Accelerator Improvement Projects				
Office of Science	14,964	5,320	1,865	18,419
Total Accelerator Improvement Projects	**14,964**	**5,320**	**1,865**	**18,419**
Line-Item Construction				
Assistant Secretary for Energy Efficiency and Renewable Energy	0	15,700	91	15,609
Office of Science	49,742	34,025	32,223	51,544
Total Line-item Construction	**49,742**	**49,725**	**32,313**	**67,153**
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	**212,476**	**118,928**	**127,875**	**203,529**
TOTAL LABORATORY (e)	**600,877**	**846,917**	**811,062**	**638,604**

Note: Minor variances may occur due to rounding.

(e) Includes American Recovery and Reinvestment Act (ARRA) funds and costs in FY2010: Operating ($76,191K, $51,114K) and Plant and Equipment ($19,909K, $53,201K). See Table 3.1 and Table 3.2 for details.

Table 2.4

FY2010 Funding and Costs by DOE Programs ($K)

ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
DP12	Science Campaign	0	0	0	0
DP15	Advanced Simulation and Computing Campaign	0	35	0	35
FS21	Cyber Security	34	59	93	0
NN20	Nonproliferation And Verification Research And Development	2,549	6,212	6,324	2,436
NN40	Nonproliferation and International Security	229	776	558	447
NN41	Global Initiative for Proliferation Prevention	313	0	257	56
Total Operating		**3,125**	**7,082**	**7,232**	**2,975**
CAPITAL EQUIPMENT:					
NN20	Nonproliferation And Verification Research And Development	227	0	159	68
Total Capital Equipment		**227**	**0**	**159**	**68**
TOTAL ADMINISTRATOR FOR NATIONAL NUCLEAR SECURITY ADMINISTRATION		**3,352**	**7,082**	**7,391**	**3,043**
Note: Minor variances may occur due to rounding.					

continued...

Table 2.4a

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF SCIENCE		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
AT50	FES - Science	448	4,868	4,532	783
FS10	Safeguards and Security - Science	915	5,184	4,818	1,281
KA11	Proton Accelerator-Based Physics	2,810	12,895	11,708	3,997
KA12	Electron Accelerator-Based Physics	75	468	396	146
KA13	Non-Accelerator-Based Physics	8,151	13,605	13,786	7,970
KA14	Theoretical Physics	3,905	7,318	5,981	5,242
KA15	Advanced Technology R&D	5,509	10,257	10,767	4,999
KB01	Medium Energy Physics	0	28	12	16
KB02	Heavy-Ion Physics	3,383	6,327	7,617	2,093
KB03	Nuclear Theory	1,761	5,406	2,921	4,246
KB04	Low Energy Physics	3,083	13,595	9,736	6,942
KC02	Materials Sciences and Engineering	24,481	28,666	40,465	12,683
KC03	Chemical Sciences, Geosciences, and Energy Biosciences	11,895	29,175	26,971	14,100
KC04	Scientific User Facilities	0	73,173	61,399	11,774
KG06	Excess Facilities Disposition	36,728	0	19,986	16,742
KG08	Safety-Related Corrective Actions	4	(4)	0	0
KJ01	Mathematical, Information, And Computational Sciences	1,610	(0)	1,332	278
KJ04	Mathematical, Computational, and Computer Sciences Research	12,572	26,600	16,903	22,270
KJ05	High Performance Computing and Network Facilities	65,463	80,686	85,086	61,064
KL01	Student Programs	113	475	424	163
KL02	Educator Programs	391	275	418	249
KP11	Life Sciences	11,507	0	3,817	7,691
KP12	Climate Change Research	2,722	(0)	1,890	831
KP13	Environmental Remediation	509	(5)	257	247
KP14	Medical Applications and Measurement Science	0	(0)	0	0
KP15	Biological Research	31,310	4,320	30,828	4,802
KP16	Biological Systems Science	0	113,485	90,555	22,930
KP17	Climate and Environmental Sciences	0	11,691	6,389	5,302
KX01	Science Program Direction	63	0	41	22
Total Operating		**229,408**	**448,488**	**459,035**	**218,861**

continued...

Table 2.4a

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF SCIENCE		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
CAPITAL EQUIPMENT					
AT50	FES - Science	10,615	(1)	4,082	6,532
KA11	Proton Accelerator-Based Physics (a)	721	1,437	1,122	1,035
KA13	Non-Accelerator-Based Physics	6,830	9,827	11,844	4,814
KA15	Advanced Technology R&D	27,016	10,920	10,642	27,293
KB02	Heavy-Ion Physics	2,529	5,107	4,188	3,448
KB04	Low Energy Physics	8,418	4,418	3,545	9,291
KC02	Materials Sciences and Engineering	23,389	4,607	12,634	15,362
KC03	Chemical Sciences, Geosciences, and Energy Biosciences	3,649	2,455	2,958	3,146
KC04	Scientific User Facilities	0	10,660	3,583	7,077
KJ01	Mathematical, Information, And Computational Sciences	2,683	0	898	1,784
KJ05	High Performance Computing and Network Facilities	31,388	4,200	15,457	20,131
KP11	Life Sciences	71	(36)	14	21
KP12	Climate Change Research	290	(0)	67	223
KP13	Environmental Remediation	2	(2)	0	0
KP15	Biological Research	14,871	(4,790)	8,879	1,202
KP16	Biological Systems Science	0	4,802	902	3,900
KP17	Climate and Environmental Sciences	0	298	0	298
Total Capital Equipment		**132,470**	**53,902**	**80,815**	**105,557**

Note: Minor variances may occur due to rounding.
(a) Includes Institutional General Purpose Equipment activity.

continued...

Table 2.4a

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF SCIENCE		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
GENERAL PLANT PROJECTS					
KA11	Proton Accelerator-Based Physics	131	0	130	2
KC02	Materials Sciences and Engineering	150	0	146	4
KC04	Scientific User Facilities	0	1,499	0	1,499
KG09	General Plant Projects	14,616	(0)	11,577	3,039
KP11	Life Sciences	0	(0)	0	0
Total General Plant Projects		**14,897**	**1,499**	**11,853**	**4,543**
ACCELERATOR IMPROVEMENT PROJECTS					
KB04	Low Energy Physics	1,769	0	594	1,175
KC02	Materials Sciences and Engineering	13,195	0	1,264	11,931
KC04	Scientific User Facilities	0	5,320	7	5,313
Total Accelerator Improvement Projects		**14,964**	**5,320**	**1,865**	**18,419**
LINE-ITEM CONSTRUCTION					
39KC	Basic Energy Sciences	19,369	(1)	17,626	1,741
39KG	Science Laboratories Infrastructure	30,373	34,026	14,597	49,803
Total Line-Item Construction		**49,742**	**34,025**	**32,223**	**51,544**
TOTAL OFFICE OF SCIENCE		**441,482**	**543,233**	**585,791**	**398,925**

Note: Minor variances may occur due to rounding.

continued...

Table 2.4b

FY2010 Funding and Costs by DOE Programs ($K) Continued

ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
BM01	Biomass/Biofuels Energy Systems	336	13,124	6,651	6,809
BT01	Residential Buildings	453	9,751	3,157	7,047
BT02	Commercial Buildings Integration	882	11,655	2,561	9,976
BT03	Emerging Technologies	1,854	9,867	7,148	4,573
BT04	Equipment Standards and Analysis	2,309	5,850	5,057	3,102
BT05	Technical Program Management Support	9	0	2	7
BT07	Technology Validation and Market Distribution	182	500	121	561
EB21	Solar Energy	1,041	5,790	690	6,142
EB25	Wind Energy Systems	689	590	837	442
EB36	Facilities and Infrastructure	0	200	195	5
EB40	Geothermal	7,520	6,514	4,827	9,207
EB42	Hydrogen Research R&D	3,406	3,915	4,627	2,694
EB51	Energy Efficiency and Renewable Energy Program Direction	171	4,121	184	4,108
EB55	Department Energy Management Program	50	0	16	34
EB57	Energy Efficiency and Renewable Energy (EERE) Program Support	18	2,105	294	1,830
ED18	Industries Of The Future (Specific)	73	(0)	61	12
ED19	Industries Of The Future (Crosscutting)	2,040	2,876	2,870	2,047
ED22	Technical Program Management Support	37	0	20	17
EH25	Planning, Evaluation and Analysis	0	(0)	0	0
EL17	Federal Energy Management Program	3,232	3,744	4,496	2,480
EO01	Distributed Energy Resources	0	(0)	(0)	0
HI03	Stack Component R&D	0	(0)	0	0
VT02	Technology Integration	499	196	19	676
VT03	Hybrid and Electric Propulsion	0	(0)	0	0
VT05	Materials Technology	100	217	158	159
VT11	Hybrid Electric Systems	5,224	14,900	12,821	7,303
WI01	Intergovernmental Activities	12	0	12	0
WI03	State Energy Program (Grants)	438	500	44	894
WI04	Other State Energy Activities	365	0	121	244
WI05	Gateway Deployment	105	(1)	26	77
WI06	Intergovernmental Activities	1,671	(0)	386	1,285
WI07	Weatherization Assistance Program	7	2,000	0	2,007
Total Operating		**32,724**	**98,411**	**57,400**	**73,735**

continued...

Table 2.4b

FY2010 Funding and Costs by DOE Programs ($K) Continued

ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
CAPITAL EQUIPMENT					
BM01	Biomass/Biofuels Energy Systems	0	4,700	0	4,700
BT03	Emerging Technologies	1	(1)	0	0
EB21	Solar Energy	0	2,209	0	2,209
EB42	Hydrogen Research R&D	48	575	505	118
VT03	Hybrid and Electric Propulsion	10	(1)	(0)	9
VT11	Hybrid Electric Systems	117	1,000	365	752
Total Capital Equipment		**175**	**8,482**	**870**	**7,788**
LINE-ITEM CONSTRUCTION					
39EB	Facilities and Infrastructure	0	15,700	91	15,609
Total Line-item Construction		**0**	**15,700**	**91**	**15,609**
TOTAL ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY		**32,899**	**122,594**	**58,360**	**97,132**

Note: Minor variances may occur due to rounding.

continued...

Table 2.4c

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
TD50	Research and Development	2,481	6,685	3,893	5,272
TD52	Electricity Restructuring	100	(0)	100	0
TD54	OPERATIONS & ANALYSIS	4,727	3,358	3,360	4,725
Total Operating		**7,309**	**10,042**	**7,353**	**9,998**
TOTAL OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY		**7,309**	**10,042**	**7,353**	**9,998**
Note: Minor variances may occur due to rounding.					

ASSISTANT SECRETARY FOR FOSSIL ENERGY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
AA15	Advanced Research	15	21	9	27
AA20	Central Systems	1,795	1,313	1,236	1,871
AA25	Fuel Cells	188	300	239	249
AA30	Sequestration	8,362	9,716	3,825	14,253
AB05	Natural Gas Technologies	628	495	710	413
AC10	Oil Technology	1,184	(0)	93	1,091
AD20	Contractual Services And Supplies	201	0	45	156
AE10	Advanced Metallurgical Processes	1	0	0	1
AY05	Clean Coal Power Initiative	645	(0)	254	391
BD00	Unconventional Fossil Energy Technologies	0	545	228	316
CE03	Center for Zero Emissions Technology - Montana State	11	1,350	330	1,031
CE47	Innovations for Low-Cost Gasification Systems	0	5	0	5
CE54	Design and Test of an Advanced SOFC Generator in PA	0	6	0	6
Total Operating		**13,030**	**13,750**	**6,969**	**19,810**
TOTAL ASSISTANT SECRETARY FOR FOSSIL ENERGY		**13,030**	**13,750**	**6,969**	**19,810**
Note: Minor variances may occur due to rounding.					

continued...

Table 2.4d

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
DF01	First Repository	45	0	0	45
DF09	Program Support	42	(1)	39	3
Total Operating		**87**	**(1)**	**39**	**48**
TOTAL OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT		**87**	**(1)**	**39**	**48**
Note: Minor variances may occur due to rounding.					

ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
EY40	Defense Site Acceleration Completion - Technology Development and Deployment	186	2,590	1,817	959
EY80	Defense Environmental Cleanup - Program Support	40	85	58	67
EZ06	Non-Defense Site Acceleration Completion - 2006 Accelerated Completions	0	(0)	0	0
EZ50	Non-Defense Environmental Cleanup - Small Sites	830	0	94	736
Total Operating		**1,056**	**2,675**	**1,969**	**1,761**
TOTAL ASSISTANT SECRETARY FOR ENVIRONMENTAL MANAGEMENT		**1,056**	**2,675**	**1,969**	**1,761**
Note: Minor variances may occur due to rounding.					

continued...

Table 2.4e

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF HEALTH SAFETY AND SECURITY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
HA10	Worker Advocacy	0	(0)	0	0
HD10	Other Defense Activities (Operating)	0	(0)	0	0
HD20	Health	0	(0)	0	0
HQ10	Employee Compensation	7	35	24	18
HU20	Health	141	115	257	0
Total Operating		**149**	**150**	**281**	**18**
TOTAL OFFICE OF HEALTH SAFETY AND SECURITY		**149**	**150**	**281**	**18**
Note: Minor variances may occur due to rounding.					

ASSISTANT SECRETARY FOR NUCLEAR ENERGY		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
AF36	Generation IV Nuclear Energy Systems Initiative (Generation IV)	0	200	67	133
AF58	Fuel Cycle Research and Development (FCR&D)	444	1,345	1,418	371
Total Operating		**444**	**1,545**	**1,485**	**504**
TOTAL ASSISTANT SECRETARY FOR NUCLEAR ENERGY		**444**	**1,545**	**1,485**	**504**
Note: Minor variances may occur due to rounding.					

continued...

Table 2.4f

FY2010 Funding and Costs by DOE Programs ($K) Continued

OFFICE OF ENERGY AND THREAT		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
GD40	Program Direction	365	(65)	38	262
Total Operating		**365**	**(65)**	**38**	**262**
TOTAL OFFICE OF ENERGY AND THREAT		**365**	**(65)**	**38**	**262**
Note: Minor variances may occur due to rounding.					

ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
PE01	Policy, Planning And Analysis	21	0	21	0
PE06	Climate Change Technology Program	0	741	40	701
WA22	Office of International Affairs - Program Direction	78	0	36	42
Total Operating		**99**	**741**	**96**	**743**
TOTAL ASSISTANT SECRETARY FOR POLICY AND INTERNATIONAL AFFAIRS		**99**	**741**	**96**	**743**
Note: Minor variances may occur due to rounding.					

OFFICE OF CHIEF FINANCIAL OFFICER		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING					
CJ01	ARPA-E Projects	15	5,297	30	5,282
Total Operating		**15**	**5,297**	**30**	**5,282**
TOTAL OFFICE OF CHIEF FINANCIAL OFFICER		**15**	**5,297**	**30**	**5,282**
Note: Minor variances may occur due to rounding.					

OFFICE OF CHIEF INFORMATION OFFICER		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
CS50	CS - Program Services	0	460	299	161
Total Operating		**0**	**460**	**299**	**161**
TOTAL OFFICE OF CHIEF INFORMATION OFFICER		**0**	**460**	**299**	**161**
Note: Minor variances may occur due to rounding.					

Table 2.5

FY2010 Funding and Costs by Other Direct Operating Source ($K)

Funding Source	FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
REIMBURSABLE WORK FOR NON-DOE ENTITIES				
Work for Other Federal Sponsors				
Department of Agriculture	39	58	60	38
Department of Commerce	30	(29)	-	2
Department of Defense	14,921	12,395	13,443	13,976
Department of Homeland Security - Borders & Transportation	53	846	407	493
Department of Homeland Security - Domestic Nuclear Detection Office	362	1,389	1,183	569
Department of Homeland Security - Information Analysis and Infrastructure Protection	1	(1)	-	-
Department of Homeland Security - Science & Technology	2,147	2,813	3,133	1,831
Department of Housing and Urban Development	-	97	71	28
Department of Interior	219	326	317	237
Department of State - International Affairs & Energy Emergencies	176	-	181	0
Department of State - Other	2,950	-	1,148	1,806
Environmental Protection Agency	1,940	2,880	1,709	3,167
National Aeronautics and Space Administration (NASA)	2,044	3,012	2,755	2,407
National Institutes of Health (a)	42,324	42,534	46,617	38,358
National Science Foundation (a)	488	277	307	467
Nuclear Regulatory Commission	550	744	581	730
Other Energy Related Activities	1,429	784	1,171	1,080
Other Federal Agencies - Defense Related	318	103	132	292
Other Federal Agencies - Energy Related	402	700	555	604
Total Work for Other Federal Sponsors	**70,393**	**68,928**	**73,768**	**66,085**

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL 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.

continued...

Table 2.5

FY2010 Funding and Costs by Other Direct Operating Source ($K) Continued

Funding Source	FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
Work for Non-Federal Sponsors				
Foreign Governments	243	340	252	337
Industry	7,836	13,234	13,549	7,898
State and Local Governments & NPO's	7,859	21,218	18,114	10,853
Universities and Institutes	8,013	21,340	23,117	7,277
Cost of Work for Others Program (WN) (a)	5,651	2,867	366	8,157
Total Work for Non-Federal Sponsors	**29,601**	**58,998**	**55,399**	**34,523**
Cooperative Research and Development Agreements				
CRADA - Small Business	77	107	178	5
CRADA - Other	519	375	607	304
Total Cooperative Research and Development Agreements	**596**	**482**	**785**	**310**
TOTAL REIMBURSABLE WORK FOR NON-DOE ENTITIES	**100,591**	**128,407**	**129,952**	**100,918**
Work for Other DOE Integrated Contractors				
Work Performed for Other DOE Locations (b)	-	11,007	11,007	-
Total Work for Other DOE Integrated Contractors	**-**	**11,007**	**11,007**	**-**
TOTAL OTHER DIRECT OPERATING (c) (d)	**100,591**	**139,413**	**140,959**	**100,918**

Note: Minor variances may occur due to rounding.

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

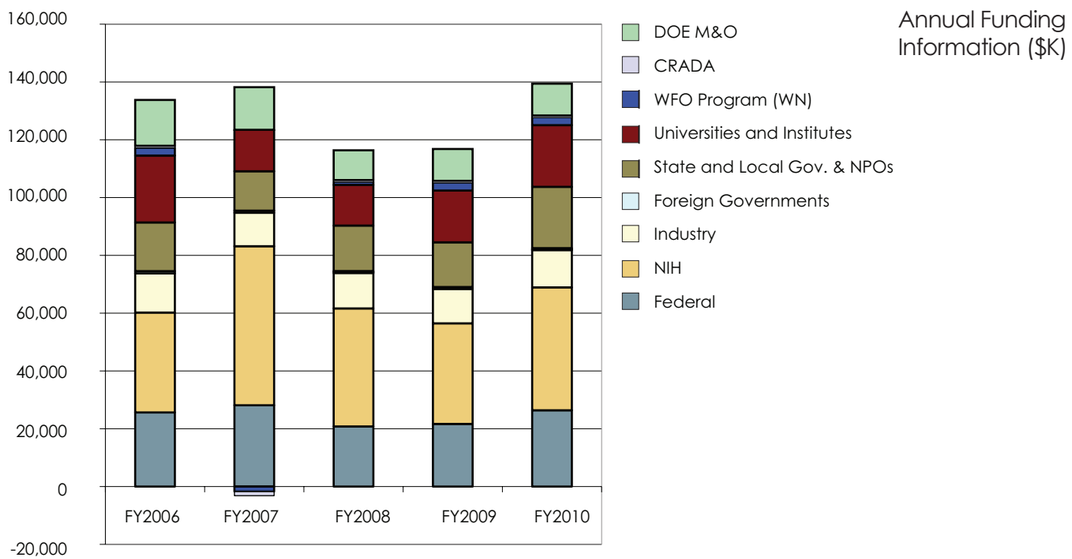
(b) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

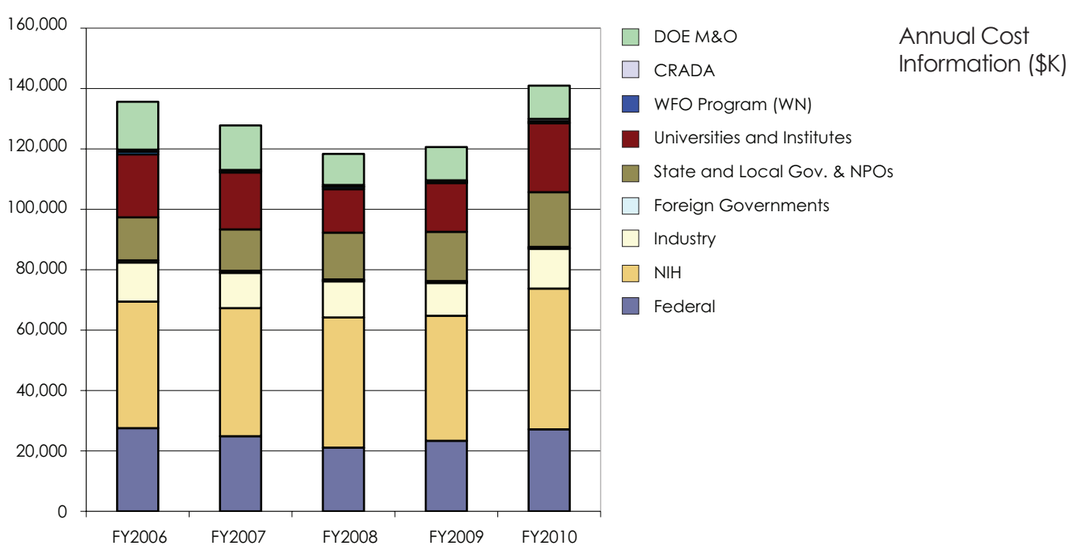
(c) The sum of FY2010 Beginning Uncosted Obligations, FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2010 is ($1,872K).

(d) Includes funds and costs for American Recovery and Reinvestment Act (ARRA), ($8,226, $8,086K, respectively) see Table 3.4 for details by sponsor.

Figure 2.1

FY2010 Funding and Cost Trends by Other Direct Operating Source ($K)





3. American Recovery and Reinvestment Act of 2009 (ARRA)

Table 3.1

LBNL ARRA Fund Trends (BA) by Funding Source ($K)

Funding Source	FY2009	FY2010
OPERATING		
Assistant Secretary for Energy Efficiency and Renewable Energy	3,664	37,206
Assistant Secretary for Fossil Energy	-	4,950
Office of Electricity Delivery and Energy Reliability	-	2,795
Office of Science	78,742	17,717
Assistant Secretary Office of the Chief Financial Officer	28	5,297
Total Operating	**82,434**	**67,965**
OTHER DIRECT OPERATING		
Work for Other Federal Agencies	1,767	5,453
Work for Non-Federal Sponsors	25	1,896
Work for Other DOE Integrated Contractors (b)	-	876
Total Other Direct Operating	**1,792**	**8,226**
TOTAL OPERATING	**84,226**	**76,191**
DOE PLANT AND CAPITAL EQUIPMENT ***Basic Equipment/Major Items of Equipment***		
Assistant Secretary for Energy Efficiency and Renewable Energy	-	4,700
Office of Science	75,950	(492)
Total Capital Equipment	**75,950**	**4,209**
General Plant Projects		
Office of Science	16,300	-
Total General Plant Projects	**16,300**	**-**
Accelerator Improvement Projects		
Office of Science	7,680	-
Total Accelerator Improvement Projects	**7,680**	**-**
Line Item Construction		
Assistant Secretary for Energy Efficiency and Renewable Energy	-	15,700
Office of Science	29,546	-
Total Line Item Construction	**29,546**	**15,700**
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	**129,476**	**19,909**
TOTAL LABORATORY	**213,702**	**96,099**
Note: Minor variances may occur due to rounding.		

Table 3.2

LBNL ARRA Cost Trends by Funding Source ($K)

Funding Source	FY2009	FY2010
OPERATING		
Assistant Secretary for Energy Efficiency and Renewable Energy	68	11,652
Assistant Secretary for Fossil Energy	-	208
Office of Electricity Delivery and Energy Reliability	-	450
Office of Science	4,368	30,689
Assistant Secretary Office of the Chief Financial Officer	13	30
Total Operating	**4,449**	**43,029**
OTHER DIRECT OPERATING		
Work for Other Federal Agencies	40	6,015
Work for Non-Federal Sponsors	-	1,195
Work for Other DOE Integrated Contractors	-	876
Total Other Direct Operating	**40**	**8,086**
TOTAL OPERATING	**4,489**	**51,114**
CAPITAL EQUIPMENT:		
Office of Science	560	27,277
Total Capital Equipment	**560**	**27,277**
GENERAL PLANT PROJECTS		
Office of Science	1,684	11,577
Total General Plant Projects	**1,684**	**11,577**
ACCELERATOR IMPROVEMENT PROJECTS		
Office of Science	119	945
Total Accelerator Improvement Projects	**119**	**945**
LINE ITEM CONSTRUCTION		
Assistant Secretary for Energy Efficiency and Renewable Energy	-	91
Office of Science	4,119	13,311
Total Line Item Construction	**4,119**	**13,402**
TOTAL DOE PLANT AND CAPITAL EQUIPMENT	**6,482**	**53,201**
TOTAL LABORATORY	**10,971**	**104,315**
Note: Minor variances may occur due to rounding.		

Figure 3.1

Where Did Your ARRA Program Dollars Go in FY2010?

Expenses	LBNL Cost Breakdown per Dollar			
	DOE Operating Costs	DOE Integrated Contractors Costs	Construction and Equipment	WFO Non-DOE
DIRECT				
Direct Labor				
UC Labor (a)	$0.08	$0.56	$0.09	$0.35
Contract Labor	$0.00	$0.00	$0.00	$0.00
Organizational Burden (b)	$0.01	$0.09	$0.01	$0.07
Subtotal Direct Labor	**$0.09**	**$0.65**	**$0.10**	**$0.42**
Other Direct				
Services	$0.68	$0.00	$0.05	$0.12
Materials	$0.16	$0.00	$0.78	$0.15
Utilities	$0.00	$0.00	$0.00	$0.00
Other Expenses (c)	$0.00	$0.01	$0.00	$0.02
Recharges (b,d)	$0.00	$0.01	$0.00	$0.02
Travel	$0.00	$0.01	$0.00	$0.01
Subtotal Other Direct	**$0.84**	**$0.03**	**$0.83**	**$0.31**
Total Direct	**$0.93**	**$0.68**	**$0.93**	**$0.74**
INDIRECT				
Procurement	$0.01	$0.00	$0.02	$0.01
Travel	$0.00	$0.00	$0.00	$0.00
G&A (Other Institutional)	$0.05	$0.32	$0.04	$0.25
Total Indirect	**$0.07**	**$0.32**	**$0.07**	**$0.26**
TOTAL EXPENSES	**$1.00**	**$1.00**	**$1.00**	**$1.00**

Note: Minor variances may occur due to rounding.
(a) UC Labor includes salary and benefits for Scientists/Engineers, Admin., Students/GSRAs and Campus Labor.
(b) Distributed activities used by direct funded programs.
(c) Includes miscellaneous expenses (stipends, sales tax, freight, etc.).
(d) Includes recharges credited back to direct operating accounts such as ALS and ESnet.

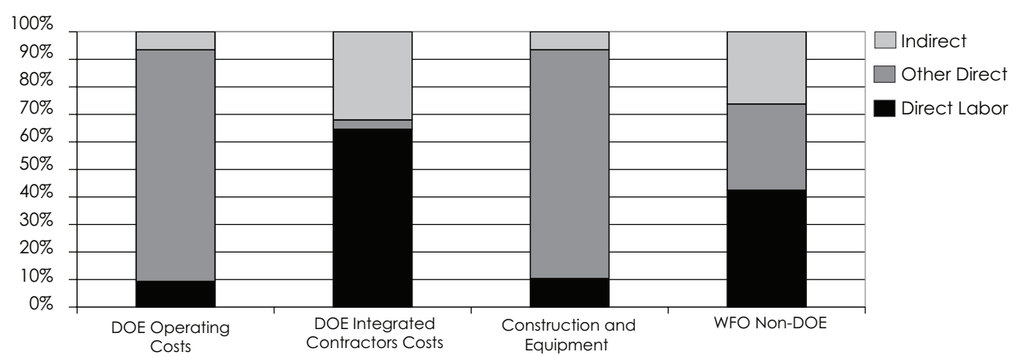


Table 3.3a

FY2010 ARRA Funding and Costs by DOE Programs ($K)

Office of Science ARRA		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
KA14	Theoretical Physics	-	2,500	169	2,331
KA15	Advanced Technology R&D	1,801	(909)	272	619
KB03	Nuclear Theory	916	2,500	388	3,028
KB04	Low Energy Physics	-	1,026	8	1,018
KC02	Materials Sciences and Engineering	308	2,500	269	2,539
KG06	Excess Facilities Disposition	11,805	-	11,805	0
KJ04	Mathematical, Computational, and Computer Sciences Research	4,000	4,047	608	7,439
KJ05	High Performance Computing and Network Facilities	51,370	1,264	8,352	44,282
KP15	Biological Research	4,174	4,790	8,818	146
	Total Operating	**74,374**	**17,717**	**30,689**	**61,402**
CAPITAL EQUIPMENT:					
AT50	Fusion Energy Sciences - Science	10,615	-	4,082	6,532
KA15	Advanced Technology R&D	15,000	5,298	4,518	15,780
KC02	Materials Sciences and Engineering	11,378	-	5,822	5,556
KJ05	High Performance Computing and Network Facilities	26,977	(1,000)	7,260	18,717
KP15	Biological Research (a)	11,421	(4,790)	5,595	1,036
	Total Capital Equipment	**75,390**	**(492)**	**27,277**	**47,621**
GENERAL PLANT PROJECTS:					
KG09	General Plant Projects	14,616	-	11,577	3,039
	Total General Plant Projects	**14,616**	**-**	**11,577**	**3,039**
ACCELERATOR IMPROVEMENT PROJECTS:					
KB04	Low Energy Physics	1,769	-	594	1,175
KC02	Materials Sciences and Engineering	5,792	-	351	5,441
	Total Accelerator Improvement Projects	**7,561**	**-**	**945**	**6,617**
LINE ITEM CONSTRUCTION:					
39KC	Basic Energy Sciences	10,428	-	10,428	0
39KG	Science Laboratories Infrastructure	14,999	-	2,883	12,116
	Total Line Item Construction	**25,427**	**-**	**13,311**	**12,116**
TOTAL OFFICE OF SCIENCE ARRA		**197,369**	**17,226**	**83,800**	**130,794**

Note: Minor variances may occur due to rounding.
(a) KP15 shifted funds from Capital Equipment to Operating

continued...

Figure 3.3b

FY2010 ARRA Funding and Costs by DOE Programs ($K) Continued

Assistant Secretary for Energy Efficiency and Renewable Energy ARRA		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
BM01	Biomass/Biofuels Energy Systems	-	13,000	6,394	6,606
BT01	Residential Buildings	-	7,151	1,479	5,672
BT02	Commercial Buildings Integration	-	7,955	583	7,372
EB36	Facilities and Infrastructure	-	200	195	5
EB40	Geothermal	2,064	2,849	1,256	3,656
EB51	Energy Efficiency and Renewable Energy Program Direction	171	3,821	184	3,808
EL17	Federal Energy Management Program	1,361	231	1,560	31
WI07	Weatherization Assistance Program	-	2,000	-	2,000
	Total Operating	**3,596**	**37,206**	**11,652**	**29,150**
CAPITAL EQUIPMENT:					
BM01	Biomass/Biofuels Energy Systems	-	4,700	-	4,700
	Total Capital Equipment	**-**	**4,700**	**-**	**4,700**
LINE ITEM CONSTRUCTION:					
39EB	Facilities and Infrastructure	-	15,700	91	15,609
	Total Line Item Construction	**-**	**15,700**	**91**	**15,609**
TOTAL ASSISTANT SECRETARY FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY ARRA		**3,596**	**57,606**	**11,742**	**49,460**

Assistant Secretary for Fossil Energy ARRA		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
AA30	Sequestration	-	4,950	208	4,742
	Total Operating	**-**	**4,950**	**208**	**4,742**
TOTAL ASSISTANT SECRETARY FOR FOSSIL ENERGY ARRA		**-**	**4,950**	**208**	**4,742**

Office of Electricity Delivery and Energy Reliability ARRA		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
TD50	Research and Development	-	2,795	450	2,345
	Total Operating	**-**	**2,795**	**450**	**2,345**
TOTAL OFFICE OF ELECTRICITY DELIVERY AND ENERGY RELIABILITY ARRA		**-**	**2,795**	**450**	**2,345**

Note: Minor variances may occur due to rounding.

continued...

Table 3.3c

FY2010 ARRA Funding and Costs by DOE Programs ($K) Continued

Assistant Secretary Office of the Chief Financial Officer ARRA		FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
OPERATING:					
CJ01	ARPA-E Projects	15	5,297	30	5,282
	Total Operating	**15**	**5,297**	**30**	**5,282**
TOTAL ASSISTANT SECRETARY OFFICE OF THE CHIEF FINANCIAL OFFICER ARRA		**15**	**5,297**	**30**	**5,282**

Note: Minor variances may occur due to rounding.

Table 3.4

FY2010 ARRA Funding and Costs by Other Direct Operating Source ($K)

	FY2010 Beginning Uncosted Obligations	FY2010 Funds	FY2010 Costs	FY2010 Ending Uncosted Obligations
REIMBURSABLE WORK FOR OTHER AGENCIES				
Work for Other Federal Agencies				
Department of Defense	445	80	320	205
National Institutes of Health (a)	1,281	5,258	5,687	854
National Science Foundation (a)	-	15	1	14
Other Energy Related Activities	-	100	7	93
Total Work for Other Federal Agencies	**1,726**	**5,453**	**6,015**	**1,166**
Work for Non-Federal Agencies				
Industry	25	365	132	259
State and Local Governments & NPO's	-	279	229	50
Universities and Institutes	-	1,018	777	251
Cost of Work for Others Program (WN) (b)	-	234	57	177
Total Work for Non-Federal Agencies	**25**	**1,896**	**1,195**	**737**
TOTAL REIMBURSABLE WORK FOR OTHER AGENCIES	**1,751**	**7,350**	**7,210**	**1,902**
Work for Other DOE Integrated Contractors				
Work Performed for Other DOE Locations (c)	-	876	876	-
Total Work for Other DOE Integrated Contractors	**-**	**876**	**876**	**-**
TOTAL OTHER DIRECT OPERATING (d)	**1,751**	**8,226**	**8,086**	**1,902**

Note: Minor variances may occur due to rounding.

(a) FY2010 ARRA National Institute of Health (NIH) and National Science Foundation (NSF) awards were obligated to LBNL 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.

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

(c) Total funding for Work for Other Integrated Contractors is assumed to be equal to cost incurred.

(d) The sum of FY2010 Beginning Uncosted Obligations, FY2010 Funds, minus, FY2010 Costs does not equal FY2010 Ending Uncosted Obligations due to various adjustments not reflected in the FY2010 Costs column. Examples of these adjustments include bridge funding, suspense items, and DOE's Federal Administrative Charge. The total of these adjustments for FY2010 is ($11K).

Table 3.5

ARRA Cost Trends by Expense Category, FY2009-FY2010 ($M and % of Total)

Expenses	FY 2009		FY 2010	
	$M	%	$M	%
DIRECT				
Direct Labor				
UC Labor (a)	0.6	5.9%	10.9	10.5%
Contract Labor	0.0	0.0%	0.1	0.1%
Organizational Burden (b)	0.1	1.0%	1.9	1.8%
Subtotal Direct Labor	**0.8**	**6.9%**	**12.9**	**12.4%**
OTHER DIRECT				
Services	8.0	73.1%	48.8	46.8%
Materials	1.6	14.6%	33.3	31.9%
Utilities	0.0	0.0%	0.0	0.0%
Other Expenses (c)	0.0	0.0%	0.2	0.2%
Recharges (b,d)	0.0	0.2%	0.4	0.4%
Travel	0.0	0.2%	0.2	0.2%
Subtotal Other Direct	**9.7**	**88.1%**	**83.0**	**79.5%**
Total Direct	**10.4**	**95.0%**	**95.9**	**91.9%**
INDIRECT				
Procurement	0.1	1.3%	1.5	1.4%
Travel	0.0	0.0%	0.0	0.0%
G&A (Other Institutional)	0.4	3.6%	6.9	6.7%
Total Indirect	**0.5**	**5.0%**	**8.5**	**8.1%**
TOTAL EXPENSES	**11.0**	**100.0%**	**104.3**	**100.0%**

Note: Minor variances may occur due to rounding.

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

(b) Distributed activities used by direct funded programs.

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

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

Table 3.6

ARRA Job Reporting

	Quarterly Jobs (a)			Office Of Science Life-to-Date Jobs		
	LBNL	Sub-Recipient	Total	LBNL	Sub-Recipient	Total
Total DOE Direct ARRA Projects	**93.6**	**175.4**	**269.0**	**77.0**	**515.0**	**592.0**
Total Other Direct Operating ARRA Projects (b)	**41.9**	**3.1**	**45.0**	**32.5**	**4.6**	**37.1**
LBNL TOTAL	**135.4**	**178.5**	**314.0**	**109.5**	**519.6**	**629.1**
DOE DIRECT ARRA PROJECT:						
ALS User Support Building	-	32.8	32.8	5.0	106.0	111.0
GPP, Upgrade Bldg 62	-	-	0.0	1.0	18.5	19.5
GPP, Upgrade Bldg 66	1.4	16.6	18.1	2.0	17.0	19.0
GPP, Air Handling Equipment	0.1	-	0.1	1.0	11.0	12.0
GPP, Upgrade Bldg 2	0.6	4.0	4.6	1.5	18.0	19.5
GPP, Modernize Transformer	1.5	-	1.5	2.5	4.0	6.5
Bevatron Demolition	-	9.5	9.5	-	22.5	22.5
Seismic Phase 2, 09-SC-72	0.1	12.6	12.7	2.5	16.0	18.5
Adv. Plasma Accel. Facility. (BELLA)	14.8	-	14.8	5.5	12.5	18.0
Nuclear Data Program Init.	1.0	-	1.0	-	1.0	1.0
Enh AIP Funding, Injector	3.1	-	3.1	2.5	-	2.5
Fed Lab Support for ARRA Trans	0.9	-	0.9	1.0	-	1.0
HEP-Adv Tech R&D Augmentation (Magnets)	1.2	-	1.2	1.5	-	1.5
Nanoscale Science Rsrch Centrs	0.1	-	0.1	-	23.5	23.5
Enh AIP Funding, RF Amplifier	0.1	-	0.1	1.0	-	1.0
Energy Frontier Research Cntrs	0.1	-	0.1	-	-	-
HEDLP NDCX-II	12.6	0.3	12.9	10.5	7.0	17.5
ALS Beamline Detectors	2.7	-	2.7	2.0	-	2.0
ALS Slice Beamline EPU	2.6	-	2.6	2.0	1.0	3.0
ALS Sextupoles Magnets	1.9	-	1.9	2.0	-	2.0
ALS High Field Vector Magnet	0.9	-	0.9	1.0	0.5	1.5
ARPA-E Early Harvest Solict.	-	-	-	-	-	-
Joint Genome Institute	-	-	-	-	90.0	90.0
Joint BioEnergy Institute	0.0	1.7	1.7	-	31.5	31.5
Advanced Networking Initiative	7.5	-	7.5	5.0	11.5	16.5
Comp. Partnerships (SciDAC-e)	1.1	-	1.1	0.5	-	0.5
Enhance FEMP Service Function	4.8	1.7	6.4	4.0	1.0	5.0
LBNL Magellan Cloud Computing	1.1	19.6	20.7	5.5	83.0	88.5
Climate100 - ESG to 100 Gbps	1.1	-	1.1	1.0	-	1.0

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.
(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

continued...

Table 3.6

ARRA Job Reporting Continued

DOE Direct ARRA Project	Quarterly Jobs (a)			Office Of Science Life-to-Date Jobs		
	LBNL	Sub-Recipient	Total	LBNL	Sub-Recipient	Total
Petascale Initiative	5.7	-	5.7	3.0	-	3.0
Enhanced Geothermal Systems (EGS) with C02 as Heat Transmission Fluid	0.3	0.7	1.0	0.5	0.5	1.0
Coupled Thermal-Hydrological-Mechanical-Chemical Model and Experiments for Optimization of Enhanced Geothermal System Development and Production	1.1	-	1.1	1.0	-	1.0
Fluid Imaging of Enhanced Geothermal Systems through Joint 3D Geophysical Inverse Modeling	1.5	-	1.5	1.5	-	1.5
Integrated Approach to Use Natural Chemical and Isotopic Tracers to Estimate Fracture Spacing and Surface Area in EGS Systems	2.6	-	2.6	2.0	-	2.0
National Accounts Acceleration in Support of Commercial Building Initiative	2.6	-	2.6	1.0	-	1.0
Smart Grid Investment Grant Program	0.3	2.5	2.8	-	0.5	0.5
Hospital Energy Benchmarking SysDev	-	-	-	-	-	-
Incorporating EE into Commercial Mortgage Underwriting	0.8	4.9	5.7	0.5	1.5	2.0
Northern California CO2 Reduction Project	-	-	-	0.5	-	0.5
Builders Challenge and Existing Home Retrofits	0.9	-	0.9	0.5	-	0.5
Advanced Biofuels PDU-Bioenergy Research Center Collaboration	0.3	68.1	68.4	-	36.5	36.5
Deep Exploratory Test well for CO2 Sequestration purposes, Newark Basin- Southern New York and New Jersey	0.0	-	0.0	-	-	-
Residential Home Retrofit Support & Research	3.0	-	3.0	1.0	-	1.0
Home Retrofits Rating Support	5.2	-	5.2	2.5	0.5	3.0
Residential Building Home Retrofit Analysis	-	-	-	-	-	-
Lab Call for Fac. and Equip.(NZE-User Test Bed)	1.4	0.4	1.8	0.5	-	0.5
High Energy Physics- Early Career Research Program	1.7	-	1.7	0.5	-	0.5
Basic Energy Sciences- Early Career Research Program	1.6	-	1.6	0.5	-	0.5
Nuclear Physics-Early Career Research Program	1.8	-	1.8	1.0	-	1.0
NP-3D Gamma ray Imaging Technologies	0.1	-	0.1	-	-	-
ASCR-Comp Partrnerships- SciDAC-e-PERC-3-Enhancing Productivity of Materials Discovery computation for Solar fuels and Next Gen. Autotuning Large Computational codes.	-	-	-	-	-	-
Visualization and Analytics Center for Enabling Technologies-VACET	0.2	-	0.2	-	-	-
Applied Partial Differential Equations Center for Enabling Technologies(APDEC)	0.2	-	0.2	-	-	-
Towards Optimal Petascale Simulations-TOPS-SciDAC-e	0.1	-	0.1	-	-	-
EE Technical Assistance	-	-	-	-	-	-

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.

continued...

Table 3.6

ARRA Job Reporting Continued

DOE Direct ARRA Project	Quarterly Jobs (a)			Office Of Science Life-to-Date Jobs		
	LBNL	Sub-Recipient	Total	LBNL	Sub-Recipient	Total
Development of an Integrated Microbial-ElectroCatalytic (MEC) System for Liquid Biofuel Production from CO2	0.1	-	0.1	-	-	-
High Throughput Discovery of Robust Metal Organic Frameworks for CO2 capture	0.6	-	0.6	-	-	-
ARRA Evaluation	0.2	-	0.2	-	-	-
Industrial Carbon Capture & Storage:Joint Inversion of Monitoring Data for Early Leakage Detection	0.1	-	0.1	-	-	-
Total DOE Direct ARRA Project	**93.6**	**175.4**	**269.0**	**77.0**	**515.0**	**592.0**
OTHER DIRECT OPERATING ARRA PROJECT: (b)						
Evaluating Benefits of Advanced Metering Infrastructure, Smart Meters and Time-Varying Tariffs	1.4	-	1.4	0.9	-	0.9
Knowledgebase R&R Pilot Project	1.1	-	1.1	1.8	-	1.8
Knowledge Fusion and Data-Supported Deep Annotation for Reconstruction of Metabolism	2.3	-	2.3	1.2	-	1.2
Technical Support for the ARRA Technical Assistance Project (TAP)	1.7	-	1.7	0.5	-	0.5
Optics characterization for LCLS CXI and NIF SXI projects	0.3	-	0.3	0.1	-	0.1
Determining Technetium Speciation Using X-ray Absorption Fine Structure (XAFS)	-	-	-	-	-	-
Interregional Electricity Reliability Issue Assessment and Analysis	0.0	-	0.0	0.0	-	0.0
New Technologies, Electricity Demand, and Utility Resource Plans	-	-	-	-	-	-
Technical Assistance to Electric Infrastructure Planners on Other Subjects	0.1	-	0.1	0.0	-	0.0
A Distributed Intelligence Automated Demand Response Building Management System	-	-	-	-	-	-
Energy-Efficient and Comfortable Buildings through Multivariate Integrated Control (ECoMIC)	0.0	-	0.0	0.0	-	0.0
Wireless Modular Dimming Lighting Control System	-	-	-	-	-	-
Development of High Rate Sequential Coatings for Low Cost Electrochromic Glass	-	-	-	-	-	-
IWO - Battaglia	-	-	-	-	-	-
Automated Continuous Commissioning of Commercial Buildings	0.9	-	0.9	1.1	-	1.1
Red Cell Band 4.1--Developmental Changes in RNA Splicing	4.0	-	4.0	3.9	-	3.9
Red Cell Band 4.1 - Developmental Changes in RNA Splicing	-	-	-	-	-	-
Age of Onset and Huntingtons Disease	3.6	-	3.6	1.7	-	1.7

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.

(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

continued...

Table 3.6

ARRA Job Reporting Continued

Other Direct Operating ARRA Project (b)	Quarterly Jobs (a)			Office Of Science Life-to-Date Jobs		
	LBNL	Sub-Recipient	Total	LBNL	Sub-Recipient	Total
In Vivo Analysis of a Noncoding Susceptibility Region for Coronary Artery Disease	1.9	-	1.9	1.7	-	1.7
The Berkeley Cancer Genome Center	0.3	-	0.3	0.8	0.1	0.9
Accelerating Cancer Research with Single Cell Arrays	0.4	-	0.4	0.7	-	0.7
ARRA Development of the Cell Ontology in Support of the Gene Ontology	0.9	-	0.9	1.4	-	1.4
Self-healing Composites via Novel Biomolecular Design and Processing	1.1	-	1.1	1.1	-	1.1
MT Function and Dysfunction in Single Neurons in Vivo	2.5	-	2.5	1.5	-	1.5
Comprehensive characterization of the Drosophila transcriptome	0.1	-	0.1	0.0	-	0.0
Beamline Automation for Structure Determination	0.2	-	0.2	1.2	0.3	1.5
Bay Area Breast Cancer and the Environment Research Center	0.4	-	0.4	0.9	-	0.9
Mapping Anti-Cancer Drugs Using Advanced X-Ray Microanalysis	0.1	-	0.1	0.0	-	0.0
Genome-Wide Mapping of Chromosomal Proteins in Drosophilia	1.0	1.1	2.1	0.8	0.5	1.3
Generation of an In vivo Human Genome Transcriptional Enhancer Dataset	1.0	-	1.0	0.6	-	0.6
Matrix- Based Mineral (MBM) Enamel Biomimetics	0.8	-	0.8	0.5	-	0.5
Integrated nanoparticle characterization and toxicity assessment	0.0	-	0.0	0.1	-	0.1
Biomimetic Actinide Decorporation: Characterization and Preclinical Development	5.5	2.0	7.5	2.9	3.7	6.6
Manipulating b1 integrin to enhance radiation therapy for breast cancer	1.0	-	1.0	0.7	0.1	0.8
Non-B DNA Structure with Chemical Carcinogens	0.7	-	0.7	0.7	-	0.7
STCI: Middleware for Monitoring and Troubleshooting of Large-Scale Applications on National Cyberinfrastructure	1.0	-	1.0	1.3	-	1.3
PHENIX: new methods for automation in macromolecular crystallography	1.1	-	1.1	0.9	-	0.9
Mismatch Repair and DNA Expansion	0.6	-	0.6	0.4	-	0.4
Production of Advanced Coatings for Solar Cells	0.1	-	0.1	0.0	-	0.0
Multidimensional Electrofocusing on Gradient Monoliths	0.5	-	0.5	0.2	-	0.2
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	0.3	-	0.3	0.4	-	0.4

(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.

(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

continued...

Table 3.6

ARRA Job Reporting Continued

Other Direct Operating ARRA Project (b)	Quarterly Jobs (a)			Office Of Science Life-to-Date Jobs		
	LBNL	Sub-Recipient	Total	LBNL	Sub-Recipient	Total
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	0.2	-	0.2
In-situ protein-protein interaction network isPIN study	0.4	-	0.4	0.1	-	0.1
In-situ protein-protein interaction network isPIN study	0.1	-	0.1	0.0	-	0.0
A New Analytic-adaptive model for EGS assessment, development and management support	0.6	-	0.6	0.1	-	0.1
Optimized Drilling and Completion of Abrasive Slurry Jet Microhole Arrays for Efficient Exploitation of Enhanced Geothermal Systems	0.9	-	0.9	0.2	-	0.2
Geochemistry and THMC Models for the Newberry EGS Project	0.1	-	0.1	0.0	-	0.0
Characterizing Fractures in Geysers Geothermal Field by Micro-seismic Data, Using Soft Computing, Fractals, and Shear Wave Anisotropy	-	-	-	-	-	-
Automated Continuous Commissioning of Commercial Buildings	-	-	-	-	-	-
Novel Functions for Red Cell Proteins Lu and LW	2.4	-	2.4	1.6	-	1.6
Total Other Direct Operating ARRA Projects (b)	**41.9**	**3.1**	**45.0**	**32.5**	**4.6**	**37.1**
Total DOE Direct ARRA Projects	**93.6**	**175.4**	**269.0**	**77.0**	**515.0**	**592.0**
Total Other Direct Operating ARRA Projects (b)	**41.9**	**3.1**	**45.0**	**32.5**	**4.6**	**37.1**
LBNL TOTAL	**135.4**	**178.5**	**314.0**	**109.5**	**519.6**	**629.1**

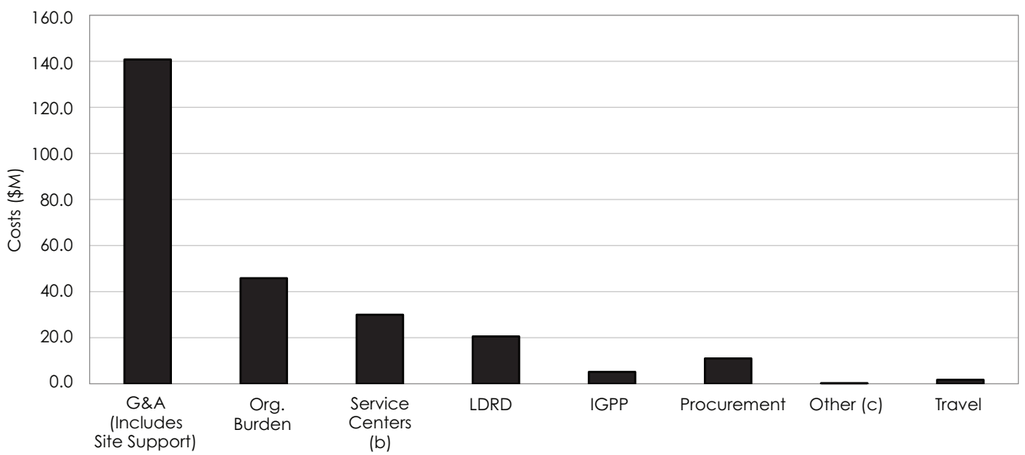
(a) Represents data reported in FederalReporting.gov for LBNL's FY2010 Q4.
(b) Other Direct Operating includes Work for Others, Federal Sponsors, Non-Federal Sponsors.

4. Indirect Budgets

Figure 4.1

Indirect Budgets — FY2010 Costs ($M)

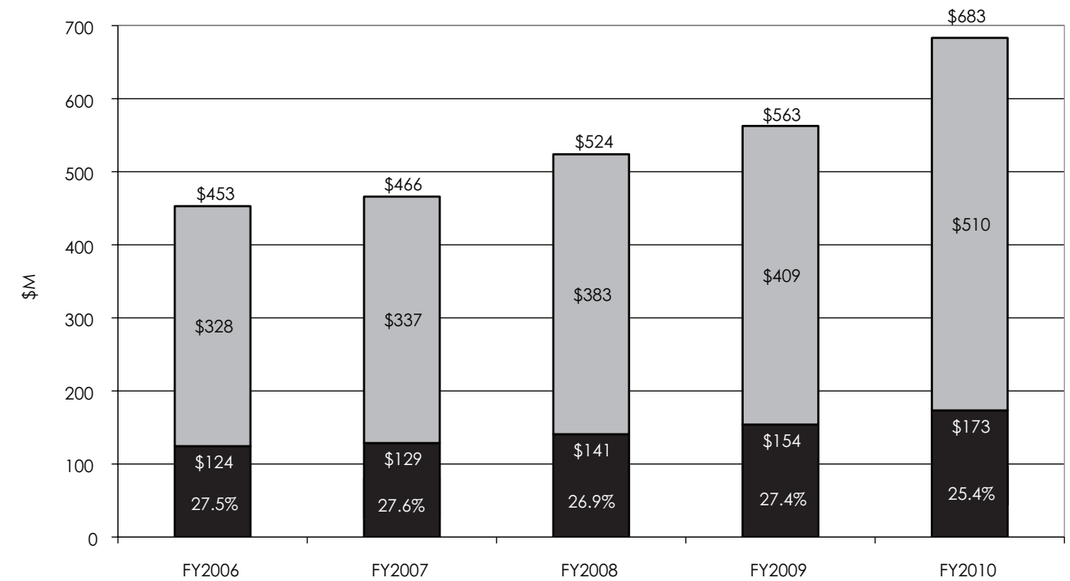
Indirect Budgets (a)	FY2010 Costs ($M)
G&A (Includes Site Support)	140.8
Organizational Burden	45.8
Service Centers (b)	30.0
LDRD	20.6
IGPP	5.1
Procurement	11.0
Other (c)	0.3
Travel	1.7
Total	**255.3**



(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 FY2010, LDRD cost includes $5.4M 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, FY2006 - FY2010



Note: Chart represents the institutional overhead cost structure for each fiscal year with adjustments for indirect double count of G&A on LDRD projects (DOE mandate to apply G&A to LDRD projects beginning FY2006). Institutional overhead costs include G&A, LDRD, Site Support, Travel, Procurement, and IGPP. Percent is the percentage of indirect cost to total operating cost

Table 4.1

Institutional Costs by Division, FY2010 ($K)

Division	G&A	LDRD (a)	Procurement	Travel	IGPP	Total
Lab Directorate	11,510					11,510
LDRD		20,553				20,553
Engineering	2,506					2,506
Earth Science	211					211
ALD for Operations						
ALD Office	1,147					1,147
IGPP					5,147	5,147
Non-Cap	11,696					11,696
Work Force Diversity Office	278					278
Public Affairs	2,833					2,833
Human Resources	5,922					5,922
Environmental Health & Safety	25,374					25,374
Facilities	38,254		2,406			40,660
Office of the Chief Financial Officer	8,546		8,550	1,715		18,812
Information Technology	24,575		39	10		24,625
Project Management Office	405					405
Health, Safety, & Security	262					262
General Laboratory	7,260					7,260
Total	**140,779**	**20,553**	**10,996**	**1,726**	**5,147**	**179,200**

Note: Minor variances may occur due to rounding.
(a) LDRD costs include $5.4M of G&A assessment.

Table 4.2

Institutional FTEs Charged by Division, FY2010

Division	G&A	LDRD (a)	Procurement	Travel	IGPP	Total
Lab Directorate	54.8					54.8
LDRD		91.9				91.9
Engineering	9.4					9.4
Earth Science	1.0					1.0
ALD for Operations						
ALD Office	5.6					5.6
IGPP					2.7	2.7
Non-Cap	14.4					14.4
Work Force Diversity Office	2.7					2.7
Public Affairs	16.5					16.5
Human Resources	41.0					41.0
Environmental Health & Safety	120.1					120.1
Facilities	142.9		21.8			164.7
Office of the Chief Financial Officer	70.0		62.7	11.4		144.1
Information Technology	102.6					102.6
Project Management Office	2.0					2.0
Health, Safety, & Security	1.1					1.1
General Laboratory	0.0					0.0
Total	**584.1**	**91.9**	**84.5**	**11.4**	**2.7**	**774.6**

Note: Minor variances may occur due to rounding.
(a) LDRD projects conducted by multiple divisions as reflected in Table 1.3.

Figure 4.3

Payroll Burden Summary ($M)

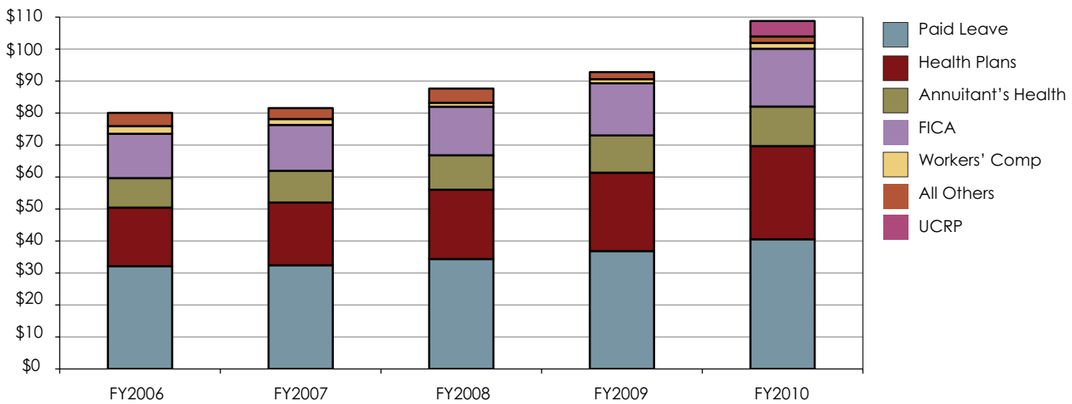


Figure 4.4

Gross Payroll Summary ($M)

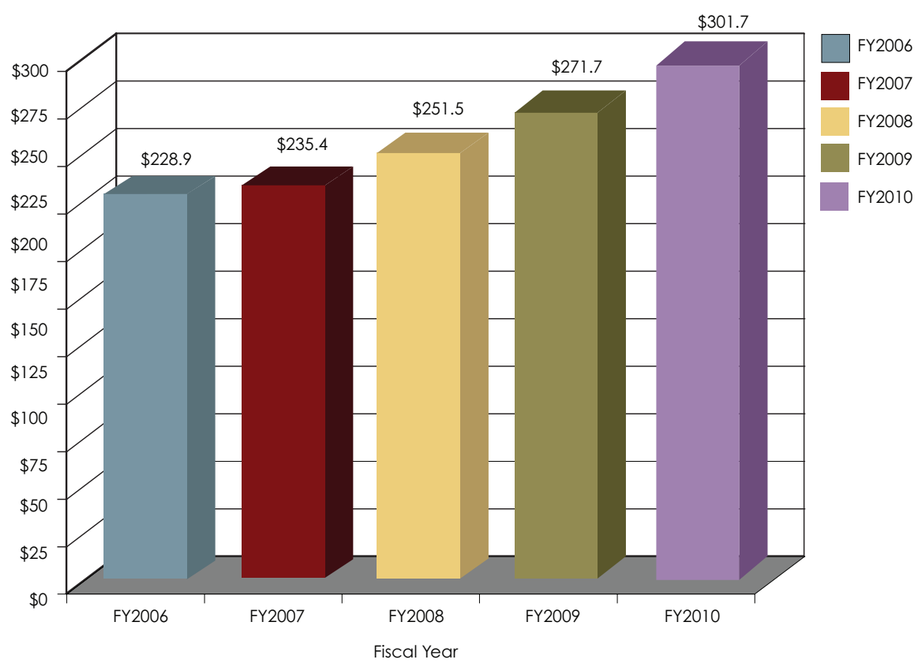


Table 4.3

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	FY2010	
	Cost $K	Avg FTE
Accelerator & Fusion Research	1,649	10.1
Advanced Light Source	2,189	14.6
Chemical Sciences	1,048	7.0
Computing Sciences	5,590	39.8
Environmental Energy Technology	4,420	29.8
Engineering	4,738	26.2
Earth Sciences	3,452	16.6
Facilities	4,172	24.1
Genomics - Onsite	449	3.2
Information Technology	3,102	15.5
Life Sciences	5,497	42.7
Materials Sciences	3,649	21.6
Nuclear Sciences	1,664	11.2
Physical Biosciences	2,645	20.2
Physics	1,565	10.6
Total	**45,829**	**293.1**
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)	FY2010	
	Cost $K	Avg. FTE
Accelerator & Fusion Research	162	0.5
Environmental Energy Technology	1,496	10.4
Engineering	1,497	8.6
Facilities	10,871	4.9
Information Technology	6,896	25.9
Life Sciences	550	3.9
Materials Sciences	234	1.4
Physical Biosciences	3,872	0.6
ALD Operations (b)	4,392	11.6
Total	**29,970**	**67.7**

Note: Minor Variances may occur due to rounding.
(a) Service Centers includes recharge cost centers that close to B&R YN01 (project type OHRCH) only and GSRA costs.
(b) Includes: GSRA costs.

Table 4.5

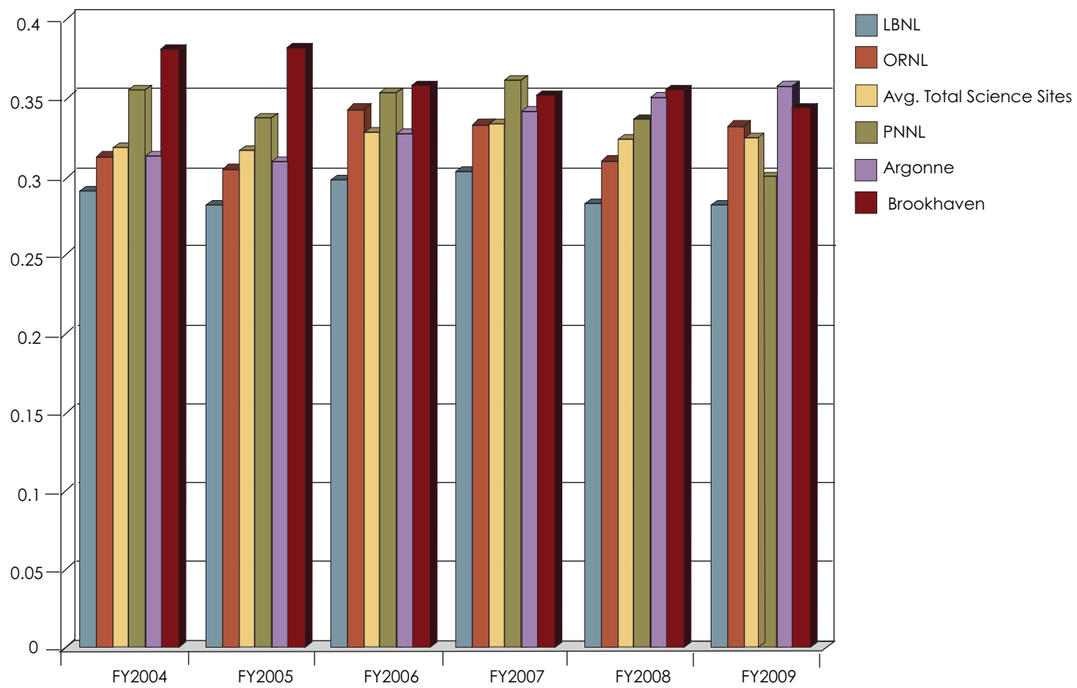
Distributed Recharges by Resource Category Trends, FY2006 - FY2010 ($K)

Distributed Recharge (a, b)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010
Vehicle	1,498	1,190	1,204	1,342	1,028
MSD Facility	367	316	273	310	234
Building Manager	84	151	160	143	
ALS Apartment Recharge	218	174	177		
Animal Care	444	408	396	494	549
Creative Services	1,368	1,357	1,319	1,481	1,582
88-Inch Accelerator Operations	135	421	545	444	688
JBEI Non-Material Recharge			70	240	252
JBEI Material Recharge			1,487	3,742	3,642
Telephone Services	4,753	4,080	3,980	4,408	4,687
EETD Recharge	1,077	1,065	1,106	1,187	1,495
Molecular Foundry	93	138	171	81	197
Computer/Net Recharges	5,613	4,376	2,733	2,605	2,415
Engineering Shop	890	839	951	927	932
CAD	634	636	647	654	731
ALS Proprietary Recharge	731	693	776	764	872
HTA Non-Material Recharge	33	38	49	13	
HTA Material Recharge	153	60	53	32	
JGI Recharge (Capillary Sequencing) (c)	13,083	12,316	10,887	10,352	1,149
JGI Recharge (Synthesis Sequencing)		34			
JGI WFO Administrative Charge	195	102	183	319	223
ESnet Recharge	4,719	3,460	3,307	1,164	974
Electricity	6,335	7,307	8,382	9,106	9,855
Conference Recharge	73	60			
GSRA - Material Recharge				2,549	2,554
GSRA - Non-Material Recharge				1	1
Low Background Facility	11	31	67	72	45
Print Room	1				0
Biomed Isotopes	91	51			0
Mixed Waste Recharge/GL	16	6	3	10	2
Miscellaneous Recharges	39	(0)			
Rapid Prototyping Lab					
Total Recharges	**42,652**	**39,308**	**38,927**	**42,440**	**34,108**

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 Recharge (Capillary Sequencing) platform phased out in FY2010.

Figure 4.5

Functional Support Costs as a Percent of Total Costs, FY2004 - FY2009



5. Financial Statement

Table 5.1

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

	FY2009	FY2010
ASSETS:		
Current Assets		
Accounts Receivable (Note 2)	$ 7,603	$ 5,371
Inventories (Note 3)	482	442
Other Current Assets (Note 4)	287	252
Total Current Assets	**8,372**	**6,065**
Net Plant and Equipment (Note 5)	620,265	683,626
Total Assets	**628,637**	**689,691**
LIABILITIES AND EQUITY:		
Liabilities:		
Current Liabilities		
Drafts Payable (Note 6)	$ (9,673)	$ 1,723
Accounts Payable	71,924	66,562
Accrued Expenses	46,061	48,346
Other	27,685	30,567
Total Current Liabilities	**135,997**	**147,198**
Post-Retirement Benefits	524,391	631,002
Environmental Liabilities (Note 7)	570,451	601,317
Capital Lease Liability (Note 8)	10,471	48
ES&H Liability (Note 9)	426,697	363,780
Pension Plan Liability	486,325	568,323
Total Liabilities	**2,154,332**	**2,311,668**
DOE Equity:		
Beginning Equity	$ (510,011)	$ (1,525,695)
Change in Equity	(1,015,684)	(96,282)
Ending Equity	**(1,525,695)**	**(1,621,977)**
TOTAL LIABILITIES AND EQUITY	**628,637**	**689,691**

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 LBNL. They have been prepared from the books and records of the Laboratory in accordance with LBNL's accounting policies which are summarized in this note.

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 LBNL's accounts are integrated with those of DOE through the use of reciprocal accounts. All of the assets and liabilities are owned by the Federal Government.

Basis of Accounting

The financial records of the Laboratory conform with 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 LBNL 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 effective April 1, 2007 to March 31, 2011, with one option year for possible extension to March 31, 2012.

Inventories

The Laboratory uses a perpetual inventory system for all inventories. An annual physical inventory is performed according to a cyclical sampling plan approved by DOE. Stores inventories and precious metals are valued and charged based on a moving 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. These items are capitalized if they have an anticipated service life of two years or more and cost $50K or more. Costs of construction and fabrication are capitalized 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 LBNL without an authorized appropriation, except for approved unfunded liabilities.

Accrued Annual, Sick, and Other Leave

Laboratory policy provides for employees' annual vacation benefits ranging from 10 to 16 hours per month, depending upon years of service. Employees may accumulate vacation up to two times their annual leave. Upon retirement or termination, the employee is paid 100% of accumulated vacation pay.

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. Retiring employees are allowed to apply unused sick leave toward additional years of service.

Retirement Plan

Most University career employees are participants in the UC Retirement System (UCRS). UCRS consists of a basic defined benefit plan and two voluntary plans composed

Note 1

Summary of Significant Accounting Policies Continued

of several investment funds that are funded with University and employee contributions.

Note 2

Accounts Receivable

The following were included in accounts receivable ($K):

	FY2009	FY2010
Trade Receivables	1,013	737
Inter-DOE Operations Offices (outside local field office)	2,297	1,143
Intra-DOE Operations Offices (within local field office)	482	238
Employees	1	68
Parent Organization (UC)	(3,040)	(3,524)
Reimbursements - Federal Agencies	6,854	6,713
Allowance for Doubtful Accounts	(4)	(4)
Total Accounts Receivable – September 30	**7,603**	**5,371**

Note 3

Inventories

The following were included in inventories ($K):

	FY2009	FY2010
Nuclear Materials	25	26
Precious Metals and Other Special Materials	110	114
Stores Inventories	356	311
Allowance for Loss on Stores	(9)	(9)
Total Inventories – September 30	**482**	**442**

Note 4

Other Current Assets

The following were included in other current assets ($K):

	FY2009	FY2010
Advances to Other DOE Locations (Russian Subcontracts)	33	0
Prepayments	249	247
Security Deposits	5	5
Total Other Current Assets – September 30	**287**	**252**

Note 5

Net Plant and Equipment

The following were included in net plant and equipment ($K):

	Plant & Equip. Costs		Accumulated Depreciation		Net Plant & Equip.	
Category	**FY2009**	**FY2010**	**FY2009**	**FY2010**	**FY2009**	**FY2010**
Structure, Facilities, & LI	339,446	339,446	(168,296)	176,462	171,150	162,984
Equipment	422,755	460,116	(279,692)	310,092	143,063	150,024
Leasehold Improvement	25,255	25,255	(18,104)	18,549	7,151	6,706
Utilities	32,151	32,151	(21,112)	21,669	11,039	10,482
Reactors & Accelerators	146,701	147,569	(111,025)	121,059	35,676	26,510
Work in Process	222,405	306,810	-	-	222,405	306,810
Assets Under Capital Lease	46,922	46,922	(17,141)	26,812	29,781	20,110
Total Net Plant and Equipment - September 30	**1,235,635**	**1,358,269**	**(615,370)**	**674,643**	**620,265**	**683,626**

Note 6

Drafts Payable

The following is an analysis of drafts payable ($K):

	FY2009	FY2010
Balance - October 1	(976)	(9,673)
Deposits:		
Payments Vouchers - Letter of Credit	(622,164)	(776,246)
Miscellaneous Receipts	(58,220)	(69,926)
Disbursements	671,687	857,568
Drafts Payable Balance - September 30	**(9,673)**	**1,723**

Note 7

Environmental Liability

The estimated remaining cost of remediation of environmentally contaminated facilities at LBNL is recorded as a liability. The Environmental Management liability is based on baseline life-cycle cost estimates prepared with the DOE Site Office with updates for subsequent changes pursuant to DOE's established change control process.

The Active Facilities liability is based on cost estimates generated for facilities reported in the Facility Information Management System. The funded portion of the liability is $736K and is included in Other Current Liabilities. The following are included in the environmental liability ($K):

	FY2009	FY2010
Active Facilities	570,451	601,317
Total Unfunded Environmental Liability - September 30	**570,451**	**601,317**

Note 8

Capital Leases

LBNL has entered into capital leases for a Cray Supercomputer, and network equipment. The following is a schedule of future lease payments by fiscal year ($K):

Fiscal Year	$K
FY2011	48
Total Future Payments	**48**

Note 9

Environment, Safety and Health (ES&H) Liability

The ES&H Liability is based on ES&H compliance activities reported annually through the ES&H Management Plan that are necessary to bring facilities and operations into compliance with existing environmental, safety, and health laws and regulations, excluding activities included in the Environmental Liability. The following are the ES&H liability ($K):

	FY2009	FY2010
Total ES&H Liability – September 30	**426,697**	**363,780**

6. Procurement and Property Management

Table 6.1

Requisitions Submitted by Laboratory Divisions

Division	# Requisitions	Estimate ($K)
Accelerator & Fusion Research	2,213	$8,234
Advanced Light Source	3,471	$12,223
Chief Financial Officer	1,779	$10,153
Chemical Sciences	2,245	$6,910
Computational Research	647	$22,565
Computing Sciences	662	$3,719
Environmental Energy Technologies	5,255	$35,182
Engineering	1,343	$3,892
Environment, Health & Safety	1,845	$12,552
Earth Sciences	3,537	$10,963
Facilities	4,209	$107,660
Genomics	3,280	$42,642
Human Resources	428	$4,489
Information Technology	1,890	$12,009
Laboratory Directorate	522	$2,039
Life Sciences	8,156	$20,022
Material Sciences	9,204	$15,850
NERSC	418	$12,651
Nuclear Science	1,276	$10,495
Operations	202	$3,426
Public Affairs	254	$824
Physical Biosciences	6,434	$27,893
Physics	1,460	$17,609
TOTALS	**60,730**	**$404,001**

Table 6.2

Purchases Placed Using Purchase Orders/Subcontracts

	($K)	# Actions
Total POs	**$394,742**	**46,192**
$0 - $2,500	$12,529	40,477
$2,500 - $10,000	$14,091	2,671
$10,000 - $25,000	$20,607	1,249
$25,000 - $100,000	$62,934	1,246
$100,000 - $1,000,000	$138,832	493
$1,000,000 +	$145,749	56

Table 6.3

Purchases Placed Using P-Card

	($K)	# Actions
Total POs	**$14,959**	**15,346**
$0 - $500	$1,785	9,055
$500 - $1,000	$1,823	2,595
$1,000 - $2,500	$3,436	2,197
$2,500 - $5,000	$3,520	1,004
$5,000 +	$4,395	495

Table 6.4

Laboratory Socioeconomic Performance

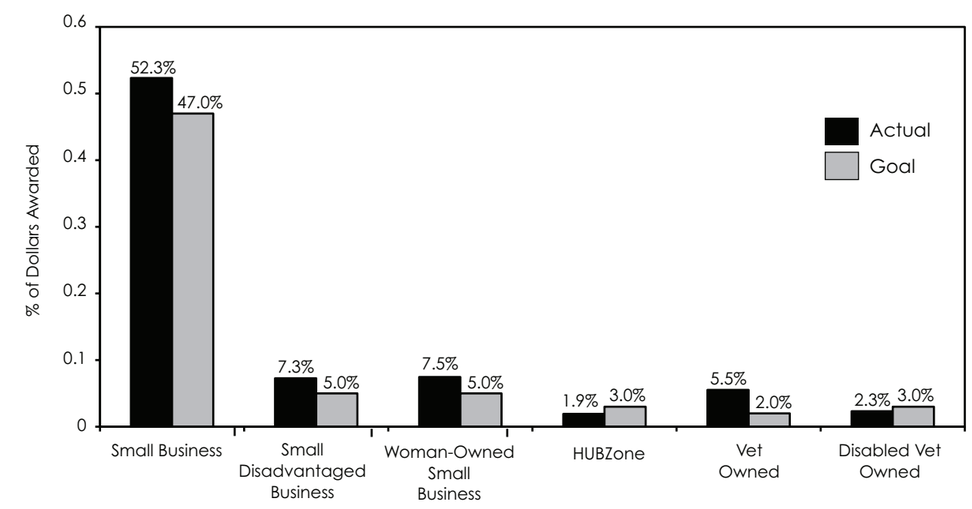


Table 6.5

Property Management Activity

CHARACTERIZATION OF LABORATORY ASSETS			
	# of Assets	**Acquisition Value ($K)**	
Equipment	9,510	517,895	
Sensitive Assets	20,116	53,655	
High Risk	7	134,769	
Computers Laptops	4,075	8,489	
Computer Desktops	7,617	17,393	
Loaned Assets	88	5,098	
Assets Created in FY2010	4,655	58,917	
Assets to Excess in FY2010	2,253	45,187	
Inventory campaign	**Base**	**Positive Resolutions**	**% Positive**
Controlled	9,230	9,177	99.43
Sensitive	18,487	18,354	99.28
High Risk	8	8	100.00
Validation Size	53	53	100.00
Assets Scanned	25,601	27,539	92.34
Division	**Asset Count**	**Asset Value**	
Accelerator & Fusion Research	1,225	37,020	
Advanced Light Source	2,149	167,957	
Chief Financial Officer	369	444	
Chemical Sciences	1,314	26,325	
Computational Research	1,760	28,273	
Computing Sciences	129	235	
Environmental Energy Technologies	1,913	19,688	
Engineering	1,090	16,455	
Environment, Health & Safety	602	3,060	
Earth Sciences	1,415	14,853	
Excess Turn-In Center	175	2,238	
Facilities	1,172	6,816	
Genomics	2,027	43,729	
Human Resources	166	187	
Information Technology	2,494	14,909	
Laboratory Directorate	174	232	
Life Sciences	2,289	35,341	
Materials Sciences	3,561	105,323	
NERSC	1,143	60,188	
Nuclear Science	836	37,883	
Operations	36	46	
Public Affairs	171	274	
Physical Biosciences	2,528	32,238	
Physics	895	52,605	
TOTAL LABORATORY ASSETS	**29,633**	**706,319**	

7. Acronyms and Key Terms

AFRD Accelerator and Fusion Research Division
ALS Advanced Light Source
ANL Argonne National Laboratory
A/S Assistant Secretary (DOE)

B&R Budget and Reporting
BA Budget Authority
BES Basic Energy Science
BNL Brookhaven National Laboratory
BSC Business Systems Committee

CAD Computer Aided Design
CFO Chief Financial Officer
CRADA Cooperative Research and Development Agreement

DARHT Dual Axis Radiographic Hydrodynamic Test
DNA Deoxyribonucleic Acid
DOD Department of Defense
DOE Department of Energy
DOI Department of Interior

ERWM Environmental Restoration and Waste Management
EH&S Environment, Health, and Safety
ESnet Energy Sciences Network

FNAL Fermi National Accelerator Laboratory
FTE Full-Time Equivalent
FY Fiscal Year (Oct. 1 through Sept. 30)

G&A General and Administrative
G/L General Ledger
GSO Goods and Services on Order

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
IT Information Technology

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
NASA	National Aeronautics and Space Administration
NERSC	National Energy Research Scientific Computing Center
NIH	National Institutes of Health
NNSA	National Nuclear Security Administration
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
PLF	Paid Leave Factor
PNNL	Pacific Northwest National Laboratory
PPPL	Princeton Plasma Physics Laboratory
R&D	Research and Development
SLAC	Stanford Linear Accelerator Center
SNAP	SuperNova Acceleration Project
SNL	Sandia National Laboratories
STARS	Standard Accounting and Reporting System
UC	University of California
WFO	Work for Others

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

Disclaimer

This document was prepared as an account of work sponsored by the United States Government. While this document is believed to contain correct information, neither the United States Government nor any agency thereof, nor the Regents of the University of California, nor any of their employees, makes any warranty, express or implied, or assumes any legal responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by its trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof, or the Regents of the University of California. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof or the Regents of the University of California.

Cover Images:

The images on the cover represent Berkeley Lab's Five Strategic Initiatives: Carbon Cycle 2.0, The Next Generation Light Source, a Safe and Efficient Lab, Building Community, and Space.

BERKELEY LAB
Lawrence Berkeley National Laboratory

OCFO

Office of the Chief Financial Officer