

**FY 2014 Congressional Action on R&D in the Department of Energy**  
(budget authority in millions of dollars)

	FY 2012	FY 2013*	FY 2014	FY 2014	Change Request		Change FY 12-14*		FY 2014	Change Request		Change FY 12-14*	
	Actual	Estimate	Budget	House	Amount	Percent	Amount	Percent	Senate**	Amount	Percent	Amount	Percent
<b>Department of Energy R&amp;D</b>													
<b>Energy Programs</b>													
Energy Efficiency & Renew	1,003	856	1,715	<b>543</b>	-1,172	-68.4%	-460	-45.9%	<b>1,409</b>	-306	-17.8%	406	40.5%
Elect Delivery & Reliability	98	94	100	<b>47</b>	-53	-52.7%	-51	-51.7%	<b>88</b>	-12	-11.8%	-10	-10.0%
Nuclear Energy	514	487	451	<b>403</b>	-48	-10.8%	-111	-21.7%	<b>451</b>	0	0.0%	-63	-12.3%
Fossil Energy	206	197	280	<b>286</b>	6	2.2%	80	39.0%	<b>280</b>	0	0.0%	74	35.9%
Adv Res Proj Agency-Energy (ARPA-E)	255	232	345	<b>64</b>	-281	-81.5%	-191	-75.0%	<b>345</b>	0	0.0%	90	35.3%
Power Marketing Admin	15	16	16	<b>16</b>	0	0.0%	1	6.7%	<b>16</b>	0	0.0%	1	6.7%
Energy Security Trust 1/	--	--	200	<b>0</b>	--	--	--	--	<b>0</b>	--	--	--	--
<b>Total Energy Programs</b>	<b>2,091</b>	<b>1,882</b>	<b>3,107</b>	<b>1,358</b>	<b>-1,749</b>	<b>-56.3%</b>	<b>-733</b>	<b>-35.0%</b>	<b>2,590</b>	<b>-517</b>	<b>-16.7%</b>	<b>499</b>	<b>23.8%</b>
Office of Science	4,463	4,281	4,744	<b>4,284</b>	-460	-9.7%	-179	-4.0%	<b>4,744</b>	0	0.0%	281	6.3%
<b>Atomic Energy Defense Activities</b>													
<b>National Nuclear Security Admin (NNSA)</b>													
Weapons Activities	2,869	2,652	3,304	<b>3,223</b>	-81	-2.5%	354	12.3%	<b>3,304</b>	0	0.0%	435	15.2%
Defense Nuclear Nonproliferation	325	293	355	<b>355</b>	0	0.0%	30	9.2%	<b>373</b>	18	5.1%	48	14.8%
Naval Reactors	1,040	957	1,203	<b>1,071</b>	-132	-11.0%	31	2.9%	<b>1,267</b>	64	5.3%	227	21.8%
<b>Total NNSA</b>	<b>4,234</b>	<b>3,902</b>	<b>4,862</b>	<b>4,648</b>	<b>-214</b>	<b>-4.4%</b>	<b>414</b>	<b>9.8%</b>	<b>4,944</b>	<b>82</b>	<b>1.7%</b>	<b>710</b>	<b>16.8%</b>
<b>Environmental and Other Defense Activities</b>													
Defense Environmental Cleanup	21	10	24	<b>22</b>	-2	-10.2%	1	2.6%	<b>23</b>	-1	-3.2%	2	10.6%
Other Defense Activities	2	2	2	<b>2</b>	0	10.8%	0	10.8%	<b>2</b>	0	1.7%	0	1.7%
<b>Total Environmental and Other</b>	<b>23</b>	<b>12</b>	<b>26</b>	<b>24</b>	<b>-2</b>	<b>-8.6%</b>	<b>1</b>	<b>3.3%</b>	<b>25</b>	<b>-1</b>	<b>-2.8%</b>	<b>2</b>	<b>9.9%</b>
<b>Total Atomic Energy Defense</b>	<b>4,257</b>	<b>3,914</b>	<b>4,888</b>	<b>4,672</b>	<b>-216</b>	<b>-4.4%</b>	<b>415</b>	<b>9.8%</b>	<b>4,969</b>	<b>81</b>	<b>1.7%</b>	<b>712</b>	<b>16.7%</b>
<b>Total DOE R&amp;D</b>	<b>11,081</b>	<b>10,325</b>	<b>13,100</b>	<b>10,314</b>	<b>-2,786</b>	<b>-21.3%</b>	<b>-767</b>	<b>-6.9%</b>	<b>12,303</b>	<b>-797</b>	<b>-6.1%</b>	<b>1,222</b>	<b>11.0%</b>
<b>Conduct of R&amp;D</b>	<b>9,942</b>	<b>9,322</b>	<b>11,865</b>	<b>9,534</b>	<b>-2,331</b>	<b>-19.6%</b>	<b>-408</b>	<b>-4.1%</b>	<b>11,433</b>	<b>-432</b>	<b>-3.6%</b>	<b>1,491</b>	<b>15.0%</b>
<b>R&amp;D Facilities</b>	<b>869</b>	<b>705</b>	<b>867</b>	<b>780</b>	<b>-87</b>	<b>-10.0%</b>	<b>-89</b>	<b>-10.2%</b>	<b>870</b>	<b>3</b>	<b>0.4%</b>	<b>1</b>	<b>0.1%</b>
<b>DOE R&amp;D by Function</b>													
Defense	4,257	3,914	4,888	<b>4,672</b>	-216	-4.4%	415	9.8%	<b>4,969</b>	81	1.7%	712	16.7%
General Science	4,463	4,231	4,737	<b>4,284</b>	-453	-9.6%	-179	-4.0%	<b>4,744</b>	7	0.1%	281	6.3%
Energy	2,091	1,882	3,107	<b>1,358</b>	-1,749	-56.3%	-733	-35.0%	<b>2,590</b>	-517	-16.7%	499	23.8%

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	Actual	Estimate	Budget	House	Amount	Percent	Amount	Percent	Senate**	Amount	Percent	Amount	Percent
<b>DOE Discretionary Budget (includes non-R&amp;D components)</b>													
<b>Energy Programs</b>													
Energy Efficiency & Renew Energy	1,781	1,723	2,776	<b>878</b>	-1,898	-68.4%	-902	-50.7%	<b>2,281</b>	-495	-17.8%	500	28.1%
<i>Hydrogen and Fuel Cell Technologies</i>	101	--	100	<b>64</b>	-36	-35.7%	-37	-36.5%	<b>100</b>	0	0.0%	-1	-1.3%
<i>Bioenergy Technologies</i>	195	--	282	<b>119</b>	-163	-57.9%	-76	-39.1%	<b>245</b>	-37	-13.1%	50	25.6%
<i>Solar Energy</i>	285	--	357	<b>50</b>	-307	-86.0%	-235	-82.5%	<b>310</b>	-47	-13.0%	25	8.9%
<i>Wind Energy</i>	92	--	144	<b>24</b>	-120	-83.5%	-68	-74.1%	<b>110</b>	-34	-23.6%	18	19.8%
<i>Geothermal Technology</i>	37	--	60	<b>12</b>	-48	-80.2%	-25	-67.9%	<b>60</b>	0	0.0%	23	62.3%
<i>Water Power</i>	58	--	55	<b>24</b>	-31	-56.8%	-34	-59.1%	<b>59</b>	4	7.3%	1	1.6%
<i>Vehicle Technologies</i>	321	--	575	<b>203</b>	-372	-64.7%	-118	-36.8%	<b>415</b>	-160	-27.8%	94	29.3%
<i>Building Technologies</i>	215	--	300	<b>65</b>	-235	-78.5%	-150	-69.9%	<b>224</b>	-76	-25.3%	9	4.3%
<i>Advanced Manufacturing 2/</i>	113	--	365	<b>119</b>	-246	-67.5%	6	5.3%	<b>216</b>	-149	-40.8%	103	91.7%
Elect Deliv & Energy Reliability	136	132	169	<b>80</b>	-89	-52.7%	-56	-41.3%	<b>149</b>	-20	-11.8%	13	9.4%
Nuclear Energy	760	721	735	<b>656</b>	-79	-10.8%	-104	-13.7%	<b>735</b>	0	0.0%	-25	-3.3%
Fossil Energy R&D	524	320	421	<b>430</b>	9	2.2%	-94	-18.0%	<b>421</b>	0	0.0%	-103	-19.7%
Adv Res Proj Agency-Energy (ARPA-E)	275	252	379	<b>70</b>	-309	-81.5%	-205	-74.5%	<b>379</b>	0	0.0%	104	37.8%
Race to the Top: Effic and Grid 3/	--	--	200	<b>0</b>	-200	-100.0%	--	--	<b>0</b>	-200	-100.0%	--	--
Departmental Administration (Net)	126	--	118	<b>13</b>	-105	-88.9%	-113	-89.5%	<b>126</b>	8	6.8%	0	0.4%
Office of Inspector General	42	--	42	<b>42</b>	0	-0.3%	0	0.0%	<b>42</b>	0	0.0%	0	0.3%
Loan Programs	6	--	32	<b>6</b>	-26	-81.3%	0	0.0%	<b>26</b>	-6	-18.8%	20	333.3%
Oil Reserves and Other Fossil Energy	218	--	217	<b>212</b>	-5	-2.3%	-5	-2.5%	<b>217</b>	0	0.0%	0	-0.2%
Uranium Enrichment D&D	472	--	555	<b>545</b>	-10	-1.8%	73	15.4%	<b>555</b>	0	0.0%	83	17.5%
Energy Information Admin	105	--	117	<b>91</b>	-26	-22.6%	-14	-13.8%	<b>117</b>	0	0.0%	12	11.4%
Non-Defense Environ Cleanup	235	--	213	<b>213</b>	0	0.0%	-22	-9.5%	<b>233</b>	20	9.4%	-2	-1.0%
<b>Science</b>													
Office of Science	4,935	4,621	5,153	<b>4,653</b>	-500	-9.7%	-282	-5.7%	<b>5,153</b>	0	0.0%	218	4.4%
<i>Advanced Scientific Computing Research</i>	428	419	466	<b>432</b>	-33	-7.1%	4	0.9%	<b>494</b>	28	6.1%	65	15.3%
<i>Basic Energy Sciences</i>	1,645	1,604	1,862	<b>1,583</b>	-279	-15.0%	-62	-3.7%	<b>1,805</b>	-57	-3.1%	160	9.8%
<i>Biological and Environmental Research</i>	592	579	625	<b>494</b>	-131	-21.0%	-98	-16.6%	<b>625</b>	0	0.0%	33	5.6%
<i>Fusion Energy Sciences</i>	393	381	458	<b>506</b>	48	10.4%	113	28.8%	<b>458</b>	0	0.0%	65	16.6%
<i>High Energy Physics</i>	771	752	777	<b>773</b>	-4	-0.5%	2	0.3%	<b>807</b>	30	3.9%	36	4.7%
<i>Nuclear Physics</i>	535	520	570	<b>552</b>	-18	-3.2%	17	3.2%	<b>570</b>	0	0.0%	35	6.6%
<i>Workforce Development</i>	19	18	17	<b>17</b>	0	0.0%	-2	-10.8%	<b>17</b>	0	0.0%	-2	-10.8%
<i>Science Laboratories Infrastructure</i>	112	106	98	<b>47</b>	-51	-52.4%	-65	-58.4%	<b>98</b>	0	0.0%	-14	-12.5%
<i>Safeguards and Security</i>	81	77	87	<b>85</b>	-2	-2.3%	4	5.5%	<b>87</b>	0	0.0%	6	8.0%
<i>Science Program Direction</i>	185	176	193	<b>175</b>	-18	-9.5%	-10	-5.5%	<b>192</b>	-1	-0.5%	7	3.9%

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	Actual	Estimate	Budget	House	Amount	Percent	Amount	Percent	Senate**	Amount	Percent	Amount	Percent
<b>Atomic Energy Defense Activities</b>													
National Nuclear Security Administration (NNSA)													
Weapons Activities	7,215	6,986	7,868	<b>7,675</b>	-193	-2.5%	460	6.4%	<b>7,868</b>	0	0.0%	654	9.1%
<i>Science Campaign</i>	332	--	398	<b>398</b>	0	0.0%	66	19.9%	<b>375</b>	-23	-5.8%	43	12.9%
<i>Engineering Campaign</i>	142	--	150	<b>150</b>	0	0.0%	8	5.7%	<b>90</b>	-60	-39.9%	-52	-36.5%
<i>Inertial Confinement Fusion Ignition</i>	474	--	401	<b>514</b>	113	28.2%	39	8.3%	<b>528</b>	127	31.8%	54	11.4%
<i>Advanced Simulation and Computing</i>	618	--	564	<b>564</b>	0	0.0%	-54	-8.7%	<b>601</b>	36	6.4%	-17	-2.8%
Defense Nuclear Nonproliferation	2,301	2,218	2,140	<b>2,100</b>	-40	-1.9%	-201	-8.7%	<b>2,180</b>	40	1.9%	-121	-5.3%
<i>Nonprolif and Verif R&amp;D</i>	348	342	389	<b>389</b>	0	0.0%	41	11.8%	<b>409</b>	20	5.1%	61	17.5%
Naval Reactors	1,080	996	1,246	<b>1,109</b>	-137	-11.0%	29	2.7%	<b>1,312</b>	66	5.3%	232	21.5%
Office of the Administrator	410	378	398	<b>382</b>	-16	-4.0%	-28	-6.8%	<b>398</b>	0	0.0%	-12	-3.0%
<b>Total NNSA</b>	<b>11,006</b>	<b>10,578</b>	<b>11,652</b>	<b>11,266</b>	<b>-386</b>	<b>-3.3%</b>	<b>260</b>	<b>2.4%</b>	<b>11,758</b>	<b>106</b>	<b>0.9%</b>	<b>753</b>	<b>6.8%</b>
Defense Environmental Cleanup	5,003	4,613	5,317	<b>4,773</b>	-544	-10.2%	-230	-4.6%	<b>5,147</b>	-170	-3.2%	144	2.9%
Other Defense Activities	823	759	749	<b>830</b>	81	10.8%	7	0.8%	<b>762</b>	13	1.7%	-61	-7.4%
<b>Total Atomic Defense Budget</b>	<b>16,832</b>	<b>15,950</b>	<b>17,718</b>	<b>16,869</b>	<b>-850</b>	<b>-4.8%</b>	<b>37</b>	<b>0.2%</b>	<b>17,667</b>	<b>-51</b>	<b>-0.3%</b>	<b>835</b>	<b>5.0%</b>
Power Marketing Administrations	108	103	108	<b>108</b>	0	0.0%	0	0.1%	<b>108</b>	0	0.0%	6	5.4%
<b>Estimated Discretionary Budget</b>	<b>26,556</b>	<b>23,822</b>	<b>28,954</b>	<b>24,866</b>	<b>-4,088</b>	<b>-14.1%</b>	<b>-1,689</b>	<b>-6.4%</b>	<b>28,210</b>	<b>-744</b>	<b>-2.6%</b>	<b>1,654</b>	<b>6.2%</b>

\* FY 2013 funding figures are AAAS' best estimates of R&D following final appropriations and sequestration. They do not reflect official agency data as reported in the President's request, which only adjusted for the September 2012 continuing resolution. FY 2012 figures are used as the baseline for comparison.

\*\* Senate Appropriations Committee, which passed its Energy & Water bill June 27.

Source: OMB R&D data, agency budget documents, and appropriations bills and reports.

Figures rounded to nearest million. Changes calculated from unrounded figures. Not all accounts / rescissions shown.

The House passed its Energy and Water appropriations bill (H.R. 2609) on July 10.

1/ Proposal for mandatory funding, outside normal appropriations.

2/ Formerly Industrial Technologies.

3/ Proposal for one-time discretionary funding in FY 2014.

July 12, 2013