

Table 7. DOE R&D in FY 2005 Final Appropriations

**Table 7. Department of Energy
Final Congressional Action on R&D in the FY 2005 Budget
(budget authority in millions of dollars)**

	FY 2004 Estimate	FY 2005 Request	FY 2005 Approved	House-Senate Conference		Chg. from FY 2004 Amount	Chg. from FY 2004 Percent
				Chg. from Request Amount	Chg. from Request Percent		
DOE Appropriations Containing R&D:							
1. Energy Supply R&D	519	454	587	133	29.3%	68	13.0%
2. Fossil Energy R&D	465	441	377	-64	-14.6%	-88	-18.9%
3. Energy Conservation	419	345	408	63	18.3%	-11	-2.6%
4. Science	3,186	3,172	3,324	152	4.8%	138	4.3%
5. Atomic Energy Defense Activities	4,244	4,333	4,293	-40	-0.9%	49	1.2%
6. Clean Coal Technology ¹	-98	-140	-160	-20	14.3%	-62	63.3%
7. Radioactive Waste Management	69	275	127	-149	-54.0%	58	83.3%
Total DOE R&D	8,804	8,880	8,956	76	0.9%	152	1.7%
Detail of selected appropriations:							
1. Energy Supply R&D							
Solar and Renewables	320	282	325	43	15.3%	5	1.6%
Electricity Transmission & Distrib. ³	69	76	91	16	20.8%	22	31.6%
Nuclear Energy	130	96	171	74	77.2%	41	31.3%
TOTAL Energy Supply	519	454	587	133	29.3%	68	13.0%
4. Science ²							
High Energy Physics	734	737	736	-1	-0.1%	3	0.4%
Nuclear Physics	390	401	405	4	0.9%	15	3.9%
Fusion Energy Sciences	263	264	274	10	3.7%	11	4.3%
Basic Energy Sciences	1,008	1,064	1,105	41	3.9%	96	9.6%
(Spallation Neutron Source)	227	129	129	0	0.0%	-98	-43.2%
Adv. Scientific Computing Res.	202	204	232	28	13.8%	30	14.9%
Biological and Environmental Res.	590	502	572	70	14.0%	-18	-3.0%
TOTAL Science ²	3,186	3,172	3,324	152	4.8%	138	4.3%
5. Atomic Energy Defense Activities							
National Nuclear Security Administration (NNSA)							
Naval Reactors	738	769	773	4	0.5%	35	4.7%
Weapons Activities	3,184	3,261	3,214	-47	-1.4%	30	0.9%
(Science Campaigns)	249	301	277	-24	-7.9%	28	11.3%
(Adv. Simulation and Computing)	721	741	698	-43	-5.8%	-23	-3.2%
(Inertial Confinement Fusion)	514	492	537	45	9.1%	22	4.4%
-- (Nat'l Ignition Facility Const.)	149	130	129	-1	-0.8%	-20	-13.5%
(All Other Weapons Acts. R&D)	1,699	1,727	1,702	-25	-1.4%	3	0.2%
Nonproliferation & Verification R&D	234	218	222	4	1.8%	-12	-5.2%
Total NNSA R&D	4,156	4,248	4,209	-39	-0.9%	53	1.3%
Environmental Management	60	56	56	0	-0.8%	-4	-7.4%
Other AEDA R&D	28	29	29	0	0.0%	1	3.6%
TOTAL Atomic Defense R&D	4,244	4,333	4,293	-40	-0.9%	49	1.2%

(continued)

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DOE R&D by Budget Function:

Defense	4,244	4,333	4,293	-40	-0.9%	49	1.2%
General Science	3,186	3,172	3,324	152	4.8%	138	4.3%
Energy	1,374	1,375	1,339	-37	-2.7%	-36	-2.6%

AAAS estimates based on FY 2004 and FY 2005 appropriations bills. Includes conduct of R&D and R&D facilities.

FY 2004 and FY 2005 request figures based on OMB R&D data and supplemental agency budget data.

Figures are rounded to the nearest million. Changes calculated from unrounded figures.

¹ Funded from advance appropriations in previous years. Does not include deferrals of previously appropriated funds.

² Does not include program direction, waste management, and other non-R&D costs.

³ New account. AAAS estimates of R&D.

FY 2005 Approved figures adjusted to reflect across-the-board reductions in the FY 2005 omnibus bill.

November 24, 2004 - AAAS estimates of final FY 2005 appropriations bills.

Department of Energy Budget (budget authority in millions of dollars)

	FY 2004 Estimate	FY 2005 Request	FY 2005 Approved	House-Senate Conference			
				Chg. from Request Amount	Chg. from Request Percent	Chg. from FY 2004 Amount	Chg. from FY 2004 Percent
Weapons Activities (NNSA)	6,234	6,568	6,177	-392	-6.0%	-57	-0.9%
Other NNSA Activities	2,433	2,480	2,564	84	3.4%	131	5.4%
Total NNSA	8,666	9,049	8,740	-308	-3.4%	74	0.9%
Defense Environmental Activities	6,574	6,953	6,978	25	0.4%	404	6.1%
Nuclear Waste and Other Defense	1,058	795	916	122	15.3%	-141	-13.4%
Total DOE defense	16,298	16,797	16,635	-162	-1.0%	337	2.1%
Science	3,500	3,432	3,600	168	4.9%	100	2.8%
Energy Supply	789	835	939	103	12.4%	150	19.0%
Fossil Energy	673	636	572	-64	-10.1%	-101	-15.0%
Energy Conservation	878	876	867	-9	-1.0%	-11	-1.3%
Other Energy Programs	817	1,427	932	-495	-34.7%	115	14.1%
Nondefense Environmental Mngmt.	469	443	440	-4	-0.8%	-29	-6.2%
Power Marketing Administrations	213	210	209	-2	-0.8%	-4	-2.0%
Departmental Administration	133	164	159	-5	-3.3%	26	19.3%
Total DOE Budget	23,769	24,820	24,351	-469	-1.9%	582	2.4%

Source: Department of Energy budget justification and FY 2005 appropriations bills.

DOE appropriations only (does not include offsets and other mandatory).

FY 2005 Approved figures adjusted to reflect across-the-board reductions in the FY 2005 omnibus bill.

November 24, 2004 - AAAS estimates of final FY 2005 appropriations bills.