

Table. DOE R&D in FY 2005 Final Appropriations

**Table. 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.