

FY 2009 Appropriations for Science programs within the Department of Energy

DOE Office of Science FY 2009 Request

(numbers are in millions)

DOE	FY 2008 Omnibus	President's FY 2009 Request	House (passed 2/25/09)	Senate (Comm. Mark)	Final	% change FY08 vs FY09
Office of Science:						
Biological & Environmental Research	544.4	568.5	601.5	598.5	601.5	10.5%
Climate Change Research:	136.8	154.9	177.9	174.9		
Climate Forcing	77.9	81.2				
ARM Research	14.8	14.8				
ARM Infrastructure	35.2	37.8				
Atmospheric Science	12.6	13.0				
Terrestrial Carbon Processes	13.4	13.6				
Information & Integration	1.9	1.9				
Climate Change Modeling	31.0	45.4				
Climate Change Response	19.4	19.4				
Climate Change Mitigation	4.7	4.7				
Advanced Scientific Computing Research	351.2	368.8	368.8	368.8	368.8	5.0%
Total, Office of Science	3,973.1	4,721.9	4,772.6	4,650.0	4,772.6	20.1%

Update 3-11-09: Late last night, the Senate approved the \$410 billion FY 2009 omnibus bill to fund government operations through September 30, despite Republican attempts to trim it down amid concerns about earmarks and the high level of spending that was included. The numbers stay the same as the House passed the bill and will go immediately to the President for his signature.

Update 3-4-09: The House on February 25 approved the FY09 omnibus appropriations bill (H.R. 1105) by a vote of 245 to 17. The Senate is taking up the bill today, and some Republicans want to

scrap the bill and have the CR run through the end of the fiscal year, keeping funding at the FY08 levels.

The House provided the Office of Science \$4.77 billion, which is \$755 million, or nearly 19 percent, above the FY08 level. Within that total, \$1.57 billion would go to Basic Energy Sciences, which includes \$100 million, the amount contained in the budget request, for the new Energy Frontier Research Centers program. The bill also includes \$15 million for a new Advanced Research Projects Agency, or ARPA-E, at the Department of Energy.

Detail on the House Mark (6/23/08):

The House makes the DOE Office of Science a priority, recommending \$4.86 billion, an increase of \$140 million above the President's request. This funding puts the Office of Science back on track to double in funding as authorized in the America COMPETES Act. The House Committee also approves the Administration's proposed Energy Frontier Research Center initiative.

The House Subcommittee recommendation for the Office of Science would provide for 2,600 more research personnel, including graduate students, to meet the nation's need for scientists and engineers. In addition to endorsing the Administration's Energy Frontier Research Center initiative, the Subcommittee would also invest in laboratory infrastructure and would provide a \$15 million increase, for a total of \$539 million, for climate change research and scientific computing efforts.

As with all appropriations bills, the Subcommittee had to make trade-offs within its overall budget allocation. The House bill would focus significant new resources on addressing the nation's energy needs and would provide strong support to basic research through DOE's Office of Science.

Detail on President's FY 2009 Request:

The President would provide \$4.7 billion for DOE's Office of Science, an overall increase of \$748.8 million or 18.8 percent above the FY 2008 enacted level. The budget proposal would "catch up" on the ACI goal of doubling research in the physical sciences over ten years. Every major program within the Office of Science would receive an increase under the President's proposal. The President eliminates \$123.6 million in Congressionally earmarked projects from the FY 2009 budget request.

Biological and Environmental Research

The President would provide \$568.5 million for Biological and Environmental Research (BER) activities, an increase of \$24.1 million (4.4 percent) above the current funding level. For Biological Research, \$413.6 million would be provided, an increase of \$6.1 million above the current level. The proposed budget supports the Genomics: Genomesto- Life foundation and bioethanol research at \$162.7 million, an increase of \$10 million above FY 2008. The three existing bioenergy research centers are supported at \$75 million. For Climate Change Research the \$154.9 million requested represents an increase of \$18 million above the FY 2008 level. The major funding increase of \$14.4 million would be focused on climate change modeling.

Advanced Scientific Computing Research

The FY 2009 budget request would provide \$368.8 million for Advanced Scientific Computing Research, which is \$17.6 million (5 percent) above the FY 2008 level. Within the request, \$11.9

million is proposed for a new joint Applied Mathematics- Computer Science Institute. The new Institute will focus on computing at extreme scales and next-generation networking. Funding continues for the National Energy Research Scientific Computer Center (NERSC) which supports over 2,500 users. A funding increase of \$1.8 million is proposed for SciDAC activities, and a new effort in cyber security for open science is proposed for \$3.5 million. The Energy Sciences Network (ESnet) is supported, and the Leadership Computing Facilities (LCF) at Oak Ridge and Argonne National Laboratories would be increased by \$4.8 million in the budget request.