



CLIMATE CHANGE
Research and Development Funding in the President's 2004 Budget

To advance and bring focus to short term objectives of climate change science, the Climate Change Research Initiative (CCRI) was created by the President in 2002. The budget proposed \$40 million for CCRI in 2003, and in 2004 this is increased by 355 percent to \$182 million. The CCRI investment will develop resources to support policy making, provide computer resources for climate modeling for decision support studies, and enhance observations and data management for a climate observing system.

CCRI and the U.S. Global Change Research Program (USGCRP) were combined into the Climate Change Science Program (CCSP). USGCRP supports long-term objectives, such as:

- Building a climate observing system;
- Improving climate models through better understanding of the dynamical processes and interconnections between atmosphere, land, and ocean; and
- Conducting fundamental research on climate processes over a large spectrum of time and space scales (e.g., El Niño, aerosols, agricultural practices in North America, and oceanic uptake of atmospheric heat and carbon).

The Budget request for CCSP is the same as proposed in 2003.

Climate Change Science Program	2003	2004	Change (2003 to 2004)	
	\$M	\$M	\$M	Percent
NASA	1,112	1,068	-44	-4%
National Science Foundation	203	213	10	5%
Commerce (NOAA)	118	136	18	15%
Energy	129	133	4	3%
Agriculture	66	73	7	11%
National Institutes of Health	59	61	2	3%
Interior (USGS)	26	26	0	0%
Environmental Protection Agency	22	22	0	0%
Smithsonian Institute	6	6	0	0%
USAID	6	6	0	0%
Transportation	0	4	4	N/A
State	0	1	1	N/A
Total, CCSP	1,747	1,749	2	0%
Subtotal, CCRI (included in CCSP total)	40	182	142	355%

For climate change technology, the budget provides about \$1.2 billion, approximately the same amount as in 2003, for technology research and development and deployment programs to reduce greenhouse gas emissions via renewable energy, energy efficiency, and carbon sequestration. About 90 percent is expended in DOE and ten percent in EPA. As part of the President's National Climate Change Technology Initiative (NCCTI), government-wide spending on climate change technologies will be reviewed, and priority programs to be included in NCCTI will be identified. The Budget includes \$40 million for the NCCTI Competitive Solicitation program, which is an innovative approach for funding technology research and development to reduce, avoid or sequester greenhouse gases.