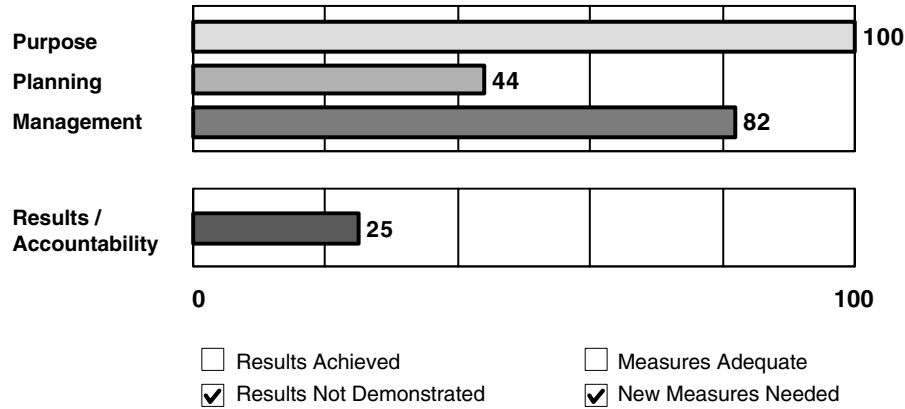


**Program:** *Advanced Scientific Computing Research*

**Agency:** *Department of Energy*

**Bureau:** *Office of Science*



**Key Performance Measures**

**Year Target Actual**

Key Performance Measure	Year	Target	Actual
Long-term Measure: Measures under development			
Annual Measure: Measures under development			

**Rating:** *Results Not Demonstrated*

**Program Type:** *Research and Development*

**Program Summary:**

The Office of Science's Advanced Scientific Computing Research (ASCR) program funds research in applied math, computer science, and computer networks and provides high-performance computer facilities for use by the other Office of Science research programs.

The program received a perfect score in the purpose section and a high score in the management section, mainly as a result of standard management practices within the Office of Science that lead the ASCR program to have a fairly well defined mission and merit-based reviews for awarding contracts and grants. The primary cause for the lower scores for planning and results is the program's current lack of adequate long-term and annual performance measures. Nevertheless, the program has made significant strides toward developing such measures despite the problems inherent in predicting and then measuring scientific progress. Other findings include:

1. While it provides a valuable service for the rest of the Office of Science, the ASCR program was the only one within the Office of Science to score below 50 for strategic planning, primarily because it lacks its own long-term strategic plan and because it has recast its focus between several large initiatives since 2000.
2. The program does not yet have regular reviews of its research portfolio and processes by ad hoc panels composed of outside visiting experts.

To address these findings:

1. The 2004 Budget provides funds to operate the program's primary user facility at 100 percent of maximum capacity, the same as in 2003 and 2002.
2. The Administration will work to reform its performance measures, with the understanding that basic research programs face difficulties in attempting to predict future progress.
3. The Department will develop an implementation-focused strategic plan for the program, in consultation of the program's advisory committee, by September, 2003.
4. The Department will institute a formal committee of visitors process for the program by September, 2003.

\* \$3 million was transferred to the Department of Homeland Security in 2003.

**Program Funding Level (in millions of dollars)**

<u>2002 Actual</u>	<u>2003 Estimate</u>	<u>2004 Estimate</u>
154	167	173