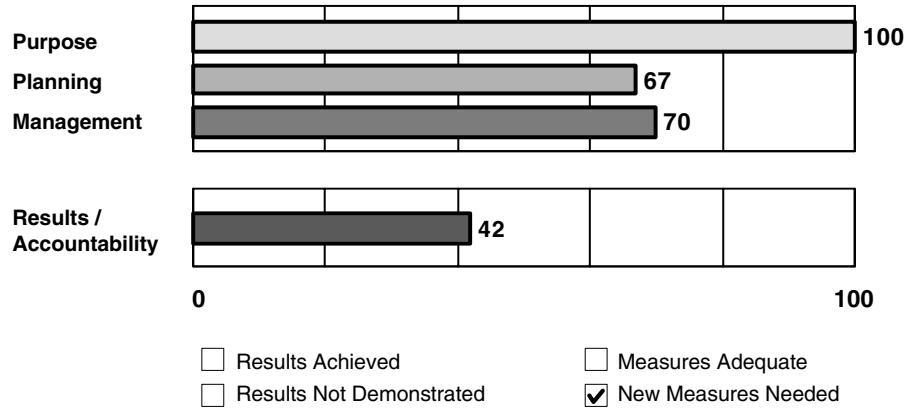


Program: Building Technologies

Agency: Department of Energy

Bureau: Energy Efficiency and Renewable Energy



Key Performance Measures

Year Target Actual

	2008	Target	Actual
Long-term Measure (new): Design packages developed and demonstrated that can achieve 40 to 70 percent increases in energy efficiency (depending on climate and home type) relative to the Model Energy Code	2008	10	0
Long-term Measure: Measures under development			
Annual Measure: Measures under development			

Rating: Adequate

Program Type: Research and Development

Program Summary:

The Building Technologies program develops technologies, designs, and codes and standards for making residential and commercial buildings and equipment more energy efficient.

The program has a very clear purpose, but needs to develop and apply a consistent methodology for estimating the public benefits of its activities in order to establish priorities within the program and among other applied energy research and development (R&D) programs. Other findings include:

1. Two of the program's activities -- "Zero Energy Buildings" and "Analysis Tools and Design Strategies" -- are largely duplicative. Both develop energy efficient design packages for buildings.
2. The program has successfully "graduated" some energy efficient technologies to the private sector for commercialization. A National Research Council assessment of four (among hundreds) of the program's R&D activities found that three have produced positive returns to the public on the Federal investment.
3. The program has difficulty developing long-term performance measures that capture the diversity of activities supported. The program also has difficulty defining annual performance measures, a challenge for many R&D programs.
4. The program is part of a division that completed a major reorganization in 2002, which should improve program planning and management.

In response to these findings and an assessment of the program's activities using the R&D Investment Criteria developed as part of the President's Management Agenda, the Budget proposes to:

1. Redirect existing funding for lighting R&D towards high-risk, high-payoff technologies that support the Department's proposed Solid State Lighting Initiative;
2. Combine and reduce overall funding for duplicative program activities aimed at developing energy efficient building designs; and
3. Develop adequate long-term and annual measures.

Program Funding Level (in millions of dollars)

<u>2002 Actual</u>	<u>2003 Estimate</u>	<u>2004 Estimate</u>
66	61	57