



Research Support Facility (RSF)



**National Renewable
Energy Laboratory**

SPECIFICATIONS

Purpose: Reduces DOE's NREL operating costs through the benefits of building ownership and improved operational efficiency

Key personnel are currently located off-campus in leased office space

Approximate size: 220,000 square feet

Projected completion date: End of 2009

Location: NREL's South Table Mountain Campus

Project Structure

Budget: \$72.9 million total estimated cost
Congress has appropriated all funding

Contracting method: Design-build contract
In design-build:

- One contractor performs architecture/engineering and construction to improve project efficiency, cost, scope, and schedule performance
- The competitive market provides the most technically-sound and cost-effective solution based on well-defined user performance standards
- Project delivery and execution improves

Research Support Facility Energy & Environmental Impact

LEED Platinum rating:

- RSF is designed to achieve the U.S. Green Building Council's (USGBC's) Leadership in Energy and Environmental Design (LEED) Platinum rating
- LEED Platinum is the USGBC's highest rating
- LEED ratings require an integrated design approach early in the project to ensure construction of a cost-competitive, high-performance building

Minimum environmental impact:

- The RSF will minimize its carbon footprint through the use of energy efficiency features such as advanced daylighting, super insulation, and low-emissivity windows
- The Renewable Fuel Heating Plant will supply building and water heating; Mesa Top Photovoltaics facility will supply renewable electricity
- Facility will have little to no carbon footprint

Transformational Energy Action Management (TEAM) Initiative & Executive Order 13423:

- Facility will likely exceed the Secretary of Energy's TEAM goal of achieving LEED Gold for all new DOE buildings
- Facility contributes to TEAM goal of reducing energy intensity across the agency by 30%
- The Research Support Facility design and construction experience will be chronicled and shared widely to help promote the production of high-performance building designs at competitive costs



U.S. Department of Energy
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and Renewable Energy**

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