UNM | Department of Chemistry & Chemical Biology

Reibsomer Hall

The Department of Chemistry and Chemical Biology is one of the oldest established departments at the University of New Mexico, an academic unit since 1913.

This critical LEED Gold project renovates and modernizes portions of Reibsomer Hall, the primary residence for the Department of Chemistry and Chemical Biology research laboratories. The project is the first of several planned phases and supports UNM's efforts to rebuild Chemistry's teaching and research mission.

The project utilizes the following LEED categories to achive a high-tech, sustainable facility:

Sustainable Sites

- Emphasis the vital relationships among buildings, ecosystems, and ecosystem services.

Water Efficiency

- An "efficiency first" approach to water conservation.

Energy & Atmosphere

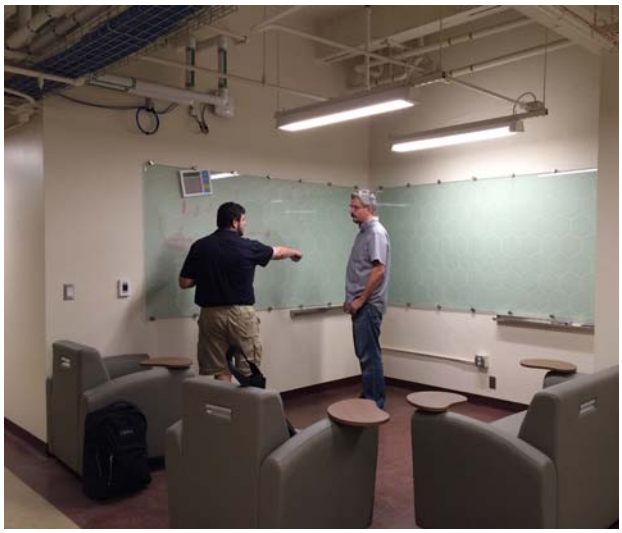
- Approaching energy from a holistic perspective, addressing energy use reduction, energy-efficient design strategies, and renewable energy sources.

Materials & Resources

- Focusing on minimizing the embodied energy and other impacts associated with the extraction, processing, transport, maintenance, and disposal of building materials.

Indoor Environmental Quality

- Prioritizing indoor air quality and thermal, visual, and acoustic comfort. Green buildings with good indoor environmental quality protect the health and comfort of building occupants.



Owner's Representative:
Christopher Carian
UNM Planning, Design & Construction

Project Size:
41,000 s.f.

Project Architect:
Vicente Castillo
Vigil & Associates Architectural Group

Project Cost:
$12,328,318

Laboratory Consultants:
HDR inc

CMAR:
Jaynes Corp

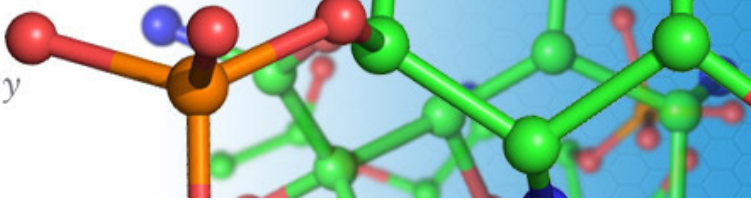
Mechanical, Electrical Plumbing Engineers:
HDR inc

Structural Engineer:
Chavez Grieves Structural Engineers

LEED Consultant:
EDI-Integrative Consulting

VIGIL & ASSOCIATES
ARCHITECTURAL GROUP, P.C.

UNM | Department of Chemistry & Chemical Biology



Reibsomer Hall

LEED Sustainable Building Performance

(over a typical research laboratory building)

40% REDUCTION IN BUILDING WATER USE

Water use reduced through utilization of efficient plumbing fixtures.

48% ENERGY COST SAVINGS

HVAC systems account for one of the larges percentages of building energy use. This is especially true in laboratory buildings. The energy savings was achieved via an energy efficient HVAC system, extensive controls & commissioning of the mechanical systems. Utilization of UNM campus photovoltaics arrays as well as LED lighting throughout the renovated spaces were also key components to energy cost savings.

50% CONSTRUCTION WASTE RECYCLED

Construction & demolition debris diverted from disposal in landfills & redirected back to manufacturing processes or reuse.

20% RECYCLED SOURCED MATERIALS

Utilization of building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials..

10% REGIONALLY SOURCED MATERIALS

Use of materials and products extracted and manufactured within the region, supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.

100% CERTIFIED WOOD PRODUCTS UTILIZED

Utilization of Forest Stewardship Council certified wood materials to encourage environmentally responsible forest management.

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