



The 137,000 square foot NREL RSF expansion will complement the original building, a commercial prototype for high performance large-scale office buildings. The expansion project will seek LEED certification at the Platinum level and a net zero energy design. Improving on the success of the RSF the new wing will be delivered for **\$13 less per square foot**, and is expected to achieve a **13% savings in overall energy performance, compared to the original building**. The expansion is scheduled for completion in October 2011 and will offer space for 500 additional NREL and DOE staff.

Energy Use Intensity (EUI): **75 kBtu/sf/yr**  
 Percent CO2 reduction: **73%**  
 ENERGY STAR design rating: **100**  
 Energy savings: **2,871,457 kBtu**  
 CO2 savings: **2,096 t CO2/yr**



**DESIGNED TO EARN THE ENERGY STAR**

The estimated energy performance for this design meets US EPA criteria. The building will be eligible for ENERGY STAR after maintaining superior performance for one year.



US Department of Energy  
 National Renewable Energy Laboratory (NREL)  
 Research Support Facility Expansion  
 Golden, Colorado  
 RNL | Stantec | Haselden Construction

- Compared to the RSF the RSF Expansion will include:**
- 6% more efficient roof-top photovoltaic panels
  - Improved thermal performance; reduced thermal bridging throughout the new wing
  - Improved window systems; upgraded lighting control systems
  - Increased flexibility in mechanical systems integration