



## Call for Entries

# Renewable Energy and Sustainable Design in Buildings 2010 Awards

## ENTRY REQUIREMENTS and APPLICATION FORM

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### AWARDS

- The awards will be presented at the CRES 2010 Annual Conference in Montrose, June 18-20. Each winner will receive one award plaque and certificates for up to five individuals or companies associated with the project.
- Media releases about the award winners will be distributed to major state media, building trade media and local media covering the location of the winning buildings.
- An article featuring the award winners will be published in the CRES newsletter, distributed to 700 CRES members.
- The award winners will be announced in *Solar Today* magazine.
- Photos of and information about the award winners will be featured on the CRES web site [www.cres-energy.org](http://www.cres-energy.org).
- Award winners will be invited to display information about their winning project at the Colorado Renewable Energy Conference (CREC 2010).

## Requirements

**Renewable Energy Features:** The project must incorporate two or more renewable energy or sustainable design strategies or technologies. These may include passive solar, photovoltaics, solar thermal water or space heating, wind power, geothermal heating and cooling, daylighting, natural ventilation or others.

**Award Categories:** One award will be presented for non-residential and one for residential buildings.

- Non-residential subcategories are commercial or institutional, new construction or retrofit.
- Residential subcategories are general housing, off-grid, affordable housing, or multi-family housing, new construction or retrofit.

**Date of Completion:** The building must be no more than three years old and substantially complete by the date of application. All renewable energy features must be installed or purchased at the date of application.

**Location:** The building must be located in the State of Colorado.

The deadline for submitting entries is April 2, 2010

Please submit an electronic version of your entry (in MS Word and/or PDF) to Werner Duecker at: [wduecker@chamberlinarchitects.com](mailto:wduecker@chamberlinarchitects.com) and send a hard copy by mail to:

Colorado Renewable Energy Society  
c/o Werner Duecker  
Chamberlin Architects, PC  
1536 Cole Blvd., Suite 240  
Golden, CO 80401

## Judging Criteria

<b>Use of Renewable Energy</b>	<b>Maximum Points</b>	<b>Notes</b>
Passive (windows, overhangs, thermal storage, daylighting, etc.)	10	Calculations showing passive heat contribution not required, but may strengthen submittal
Solar thermal (hot water, space heating/cooling, etc)	10	Minimum 10% energy contribution from solar for credit
RE electricity (PV, wind, other)	10	Minimum 10% energy contribution for credit
Other aspects of Renewable Energy (integration, materials, innovation)	10	Includes recycled-content materials
Balance, category-specific	10	This is for discussion of trade-offs (i.e. thermal and visual comfort); must be justified by applicant
<b>Renewable Energy Points Subtotal</b>	<b>50</b>	
<b>Environment, Efficiency, Aesthetics, Other</b>		
Architecture, visual appeal, resale	10	Market acceptance
Energy efficient design (envelope)	10	Thermal barrier; infiltration control; window placement and performance
Energy efficient systems (heating/cooling/lighting/appliances, commissioning)	10	Building science; house as a system; energy audits and system performance checks
Water use reduction	5	
Site impact, embodied energy, indoor air quality, waste	5	Minimize site disturbance; interior finish materials; mechanical ventilation; generation and handling of solid waste
Public education, replicability	10	Likelihood of design/systems being adopted on production scale; opportunity for increased public awareness/acceptance
<b>Other Subtotal</b>	<b>50</b>	
<b>Total Project Points</b>	<b>100</b>	

**RENEWABLE ENERGY AND SUSTAINABLE DESIGN IN BUILDINGS AWARD**

**2010 CRES AWARD APPLICATION**

***AWARD CATEGORY (Check all that apply):***

- Commercial building
- Institutional building
- General housing (production, custom)
- Multi-family
- Off-grid
- Affordable (meets local community definition of "affordable housing"; include reference)
- Renovation/remodel/addition
- New construction

Project Name: \_\_\_\_\_

Project address: \_\_\_\_\_

\_\_\_\_\_

Name of Applicant(s) \_\_\_\_\_

Role in Project: \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip \_\_\_\_\_

Telephone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_

Others involved with Project (up to 5 names, including applicant):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Please submit the required information and answer the following questions with the entry form.**

## Required Information:

- Construction drawings (section, floor plan, elevation) to document passive solar features, daylighting and other features
- Minimum of two photographs showing renewable energy features (electronic version will be required for winning projects)
- Building square footage
- Construction cost per square foot
- Date of completion
- Number of bedrooms (residential)
- Initial sales price and date of sale (residential)
- Non-renewable heating source (gas, electric, propane, etc)
- Calculations to verify renewables contribution
- Responses to project questions (listed below, as applicable; judges would appreciate brevity and an organization of answers that enables quick and efficient scoring in each category)

### Answer the following questions as applicable:

1. **Use of Renewable Energy:** What renewable energy technologies or strategies does the building incorporate?
2. **Environmental Impact:** What impact do the renewable energy and energy efficiency features of the building have on the environment? How much non-renewable energy is replaced; how much CO2 is displaced? Describe any improvement in indoor air quality.
3. **Aesthetics:** How have the renewable energy features been integrated into the building and the natural environment?
4. **Public Awareness:** How does the building help raise public awareness for renewable energy? Has it been, or will it be open to the public? Is it in a publicly accessible location?
5. **Replicability:** How does the building serve as an example for other builder or architects? Can any of the strategies be widely adopted? What can builders or architects learn from the building to apply to their own buildings?

### Optional Information

- E-Star certificate
- Built Green checklist
- LEED Scorecard
- Computer report to show performance/code compliance
- Other documentation to aid evaluation of the project
- Energy bills