Call for Entries

Renewable Energy and Sustainable Design in Buildings 2012 Awards

ENTRY REQUIREMENTS and APPLICATION FORM

AWARDS

The awards will be presented at the CRES 2012 Annual Conference in which will be combined this year with the World Renewable Energy Forum, May 13-17, 2012, at the Colorado Convention Center in Denver.

- 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.
- Award winners will be invited to display information about their winning project at the World Renewable Energy Forum 2012.

Requirements

Renewable Energy Features: The project must incorporate two or more renewable energy or sustainable design strategies or technologies and demonstrate cost and benefit. These may include natural solar, earth, or massing strategies, Passive House modeling, photovoltaics & near net zero, domestic hot using or space heating using solar thermal, , heat pump, alternate energy sources such as wind power, geothermal heating and cooling, daylighting, natural ventilation or others. Emphasis will be placed on actual performance correlated to cost and benefit explanations of applicants. If a rating system was used demonstrate why it is better than the current methods.

Award Categories: Four awards will be provided:

- Commercial subcategories are public and private. Buildings can be renovations or new construction.
- Residential subcategories are single family housing and multi-family housing. Homes can be renovations or new construction.

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 and proven with utility and energy usage data for at least an entire year. Renovations should provide before and after renovation utility data.

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

The deadline for submitting entries is **Friday, March 16th, 2012.**

Please submit an electronic version of your entry (in MS Word and/or PDF) to
CRES Award Nominations
Nominations2012@cres-energy.org with a copy to info@cres-energy.org

Hard copies may also be submitted in place of electronic copies.
Send to Nominations, Colorado Renewable Energy Society, POB 933, Golden, CO 80401.

Judging Criteria

Use of Renewable Energy	Maximum Points	Notes
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
Renewable Energy Points Subtotal	**50**	
Environment, Efficiency, Aesthetics, Other		
Architecture, visual appeal, resale/appraisal	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
Other Subtotal	**50**	
Total Project Points	**100**	

RENEWABLE ENERGY & SUSTAINABLE DESIGN IN BUILDINGS AWARD

2012 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:_____

Role in Project:_____

Address_____

City_____ Zip_____

Telephone_____ Fax_____

E-mail_____

Others involved with Project (up to 6 people with company names. Up to 5 people to receive certificate, owner to receive plaque):

Owner_____ Company_____
Name_____ Company_____
Name_____ Company_____
Name_____ Company_____
Name_____ Company_____

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

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 envelope properties (R-values, window properties, air infiltration, etc.)
- ☐ Building square footage
- ☐ Construction cost per square foot
- ☐ Date of completion
- ☐ Number of bedrooms & bathrooms (residential)
- ☐ Initial sales price and date of sale (residential)
- ☐ Non-renewable heating source (gas, electric, propane, etc)
- ☐ Calculations to verify renewables contribution
- ☐ Building electrical, water,& gas use for 1 year from utility bills summarized with Energy Usage Index (kBtu/sf/yr) and Energy Cost Index ($/sf/yr)
- ☐ 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 and/or HERS rating
- Built Green checklist and/or LEED scorecard
- Computer report to show performance/code compliance
- Energy modeling report or LEED EAc1 submittal
- PHPP or Passive House Certification
- Other documentation to aid evaluation of the project