

Rocky Mountain
Association of Energy Engineers

December 2010



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December 9 Holiday Mixer



Celebrate the holiday season with fellow RMAEE members! This event is one of the best opportunities during the year to meet and spend time networking with and talking to local RMAEE members and other energy professionals.

When: Thursday, December 9, 2008

Time 4:00 to 7:00 pm

Where: Indian Tree Golf Course Clubhouse
7555 Wadsworth Blvd,

Admission includes 2 drink tickets and light appetizers

To reserve your spot at the December Holiday mixer send an email with RSVP Holiday Mixer in the subject line to Steve Kutska, <mailto:stephen.p.kutska@xcelenergy.com>

Letter from the President

Welcome to a new holiday season, and the end of my chapter presidency. 2010 has been a strong year for RMAEE: we continue to grow in membership and meeting attendance, and we have attracted (what I consider to be) the strongest group of speakers that the chapter has seen to date. Thank you to all who have presented at our monthly meeting, and at our highly successful Energy Forum in October – and also to those who continue to bring great energy-related ideas forward.

My stated goals for the year were: to keep us headed in this successful direction, continue to procure interesting and topical monthly speakers, and add significant capabilities to our chapter website. 2 out of 3 ain't bad (as Meatloaf once sang) –we're still tinkering with the website capabilities and WILL be making improvements in the coming year.

Our new chapter president will be Greg Bradshaw – a long time RMAEE member, with a wealth of knowledge and experience in the energy efficiency industry, and owner of his own consulting firm. I have every confidence that he'll be a fantastic RMAEE president.

As a reminder, RMAEE is in the planning stages of hosting a Certified Energy Manager training course in Denver next year, potentially in the late spring, like we did in 2009. Please contact myself or any board member if you, or any colleagues you know, would be interested in attending. You can learn more about the CEM certification at AEE's website, <http://www.aeecenter.org/certification>.

In closing for the year, I'd like to thank our chapter members for our exceptional year, and I'd like to give a special thanks to our Board – who help at every turn and devote many hours to continually improving our chapter for the membership.

I hope you can attend our annual evening mixer on December 9th at Indian Tree. Thank you all for your attendance and participation this year, and we look forward to another great year in 2011!

Sincerely,

Russ Chitwood, P.E., C.E.M.
RMAEE Chapter President

Employment Opportunity

Richard Patton at Patton Engineering is looking for one or two engineers to assist, on a contract basis, with a project that will start the first of the year and continue for 3 to 5 months. The engineer(s) should be familiar with buildings and systems including;

- Interview and visual inspection of a building envelope and identification of maintenance or repair that may be required such as painting, cracks in building structure, roof leaks, insulation, window condition and type, weather stripping, etc.
- Building HVAC system identification, inventory, and condition based upon visual inspection, interviews, type, and age.
- Energy efficiency assessment based upon interviews, visual inspection, facility benchmarking, review of EMCS trends, minor metering and measurement of data like temperature for a few locations, and energy modeling with spreadsheet or simulation methodologies.

The project will require travel to the Seattle area for the site surveys. Please send resume and contact information to Richard Patton at Rpatton@PattonEnergy.com Phone 303-280-3215.

News from the Governor's Energy Office



Governor's
Energy Office

GEO November Newsletter

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Governor's Energy Office Making Rebates Easier *Redemption Process Gets Easier as \$10 Million Still Available*

The Governor's Energy Office (GEO) has made it easier for Coloradans to redeem more than \$10 million in energy efficiency and renewable energy rebates still available across the state.

The GEO launched its Recharge Colorado campaign and website in spring 2010 to help consumers and businesses cash in on \$18 million of American Reinvestment and Recovery Act funds designed to promote energy efficiency. Although there has been great demand for rebates, millions of dollars still remain available for:

ENERGY STAR Appliances

- Gas Condensing Furnaces (Up to \$500)
- Insulation and Air Sealing (Up to \$600)
- Duct Sealing (Up to \$150)
- Energy Audits (Up to \$100)
- Energy Monitors (Up to \$100)
- Renewable Energy technologies

The GEO urges Coloradans to take advantage of the rebates before funds are exhausted and winter drives up heating bills.

"The rebates are an excellent way to jumpstart cash savings through energy efficiency," said Tom Plant, executive director of the GEO. "With winter around the corner, services like duct sealing and energy audits will uncover even more savings hidden inside your home or business."

To make it easier for Coloradans to cash in on this opportunity, the GEO has streamlined the redemption process for appliance rebates. Under the previous system, a rebate reservation was required before buying the appliance. The new process works much like other consumer retail rebates by allowing a consumer to first buy the qualifying appliance, or a service like an energy audit or duct sealing, then redeem the rebate by completing the application on the RechargeColorado.com website. There will no longer be a reservation required for appliances. People who are currently on the wait list for appliance rebates will receive their funds as soon as their required paper work with proof of purchase is sent in and processed.

The new process also changes the distribution of rebate funding. Prior to the change, appliance rebate funds were divided by type of appliance. Each category of appliance received a specific amount of rebate funds, limiting, for instance, the number of dishwasher rebates. Under the new process, funding for all appliance rebates is pooled together, allowing the rebates to flow toward the appliances where demand is highest.

Rebates are available for the following appliances:

- Refrigerators (\$50 without recycling, \$100 with proof of recycling)
- Clothes Washers (\$75)
- High Performance Gas Storage Water Heaters (\$200)
- Dishwashers (\$50)
- Gas Boilers (\$400)

Rebates will be available until funds run out. To check if rebates are still available, check out the

"\$\$ countdown" at RechargeColorado.com and click on the Learn More button under Appliance Rebates.

In some cases, rebates from Recharge Colorado can be combined with local, utility, and manufacturer incentives for even greater savings-all of which can be found with one simple resource: www.Rechargecolorado.com.

For other press releases please [click here](#).

The GEO and the American Recovery and Reinvestment ACT (ARRA) Fund 17 Colorado Businesses

The Governor's Energy Office provided American Recovery and Reinvestment Act (ARRA) funding through an Energy Audit Equipment Grant to 17 businesses across Colorado. These grants will help expand their business and provide increased services to customers by providing funding towards the costs of energy auditing equipment used in residential and small commercial applications.

- **A Tin Man Heating and Cooling** - serving Pueblo, Custer, Fremont, and Southeast Colorado Counties.
- **Alt Energy Solutions** - serving the San Luis Valley.
- **Chaffee County** - serving Chaffee County.
- **Colorado Housing Inc** - serving Southwest Colorado.
- **Comfort by Kodiak** - serving Summit Eagle, Grand, Clear Creek, Lake and Park Counties.
- **Confluence Architecture** - serving Carbondale.
- **EnergyWise Consultants** - serving Delta, Montrose, Ouray, and San Miguel Counties.
- **East Central Resource Conservation & Development, Inc.** - serving Eastern Colorado.
- **Golden Plains** - serving Northeast Colorado.
- **Grand County BEDA** - serving Grand and Jackson Counties.
- **High Country Conservation Center** - serving Summit County.
- **Huerfano-Las Animas Area Council of Governments** - serving Huerfano and Las Animas Counties.
- **Mile High Youth Corps** - serving Gilpin and Clear Creek Counties.
- **Office for Resource Efficiency** - serving Gunnison County.
- **Park County** - serving Park County.
- **Senter Lane** - serving San Miguel, Ouray, and San Juan Counties.
- **Southeast Colorado Resource Conservation & Development, Inc.** - serving Southeast Colorado.

Three Colorado utilities were awarded funding through the Compact Fluorescent Light (CFL) Buy-Down Program Grant. This ARRA funded grant specifically targeted Colorado electric utilities which have not previously been able to offer a utility sponsored CFL program to their customers. This funding will allow those organizations the opportunity to develop new residential CFL purchasing and distribution programs and advance residential energy efficiency and the education of throughout their service territories.

- Arkansas River Power Authority
- City of Delta
- City of Fountain

The GEO is also proud to announce the recipients of the Street Lighting Demonstration Grant. This grant opportunity provides funding to three communities for the installation of commercially available LED lighting technology as part of a street lighting demonstration to buy down the cost of fixtures, expand the scope of a project or compare different types of LED technology.

Highline Electric (Town of Sedgwick). The Utility will replace inefficient mercury vapor fixtures

with efficient LED bulbs saving the town over \$3,000 a year.

City of Fountain - The town will replace similar inefficient mercury vapor fixtures with LED lamps reducing energy consumption by 70 percent.

Town of Lyons - By replacing just a few of their street lights with LED bulbs, the town estimates saving close to \$400 annually.

Performance Contracting Case Study for Colorado Springs District 11

Colorado Springs School District 11 has redefined their approach to facility management in order to access energy savings and implement capital improvement projects across their schools. This district has generated a savings stream from their utility and operational costs through execution of an Energy Performance Contract. This kind of foresight has allowed the district to not only track their energy usage, but develop comprehensive energy improvements that leverage existing capital funds with utility rebates and government grants. A case study describing this 5 million dollar project is located at the following link:

[Colorado Springs 11 Case Study](#)

December Insulation & Air-Sealing Rebate Training Events

The Governor's Energy Office invites you to attend a free 2 hour event in your area that will provide you with a toolkit of useful information on current consumer rebates as well as techniques on promoting and selling energy efficiency to your customers.

This is your opportunity to learn and receive:

- Professional sales advice on selling energy efficiency and driving business through the promotion of rebates and incentives.
- An informational "toolkit" with relevant information on energy efficiency, including the customer-oriented "Guide to Energy Efficiency" to share with your customers.
- An update on state and utility rebates and incentives in your area.
- An overview of the Recharge Colorado website and rebate application process.

December Dates & Locations:

La Junta, CO

Wednesday, December 1st

Otero Junior College Conference Room 2001

San Juan Avenue, La Junta, CO 81050

7:00AM-9:30AM

[Register Now!](#)

Denver, CO

Thursday, December 2nd

Comfort Air

15501 E. Fremont Drive, Centennial, CO 80112

9:00AM - 11:30AM

[Register Now!](#)

Montrose, CO

Monday, December 13th

Delta-Montrose Electric Association (DMEA)
11925 6300 Road, Montrose, CO 81401
***New Time* Now 9:00AM - 11:30AM**
[Register Now!](#)

Glenwood Springs, CO
Tuesday, December 14th
Glenwood Community Center, Sopris A
100 Wulfsohn Road, Glenwood Springs, CO 81601
***New Time* Now 9:00AM - 11:30AM**
[Register Now!](#)

Ft. Morgan, CO
Tuesday, December 7th
Morgan Community College, Founders Room
920 Barlow Road, Ft. Morgan, CO 80701
7:00AM - 9:30AM
[Register Now!](#)

Upcoming High Performance Building Webinars and Workshops

FREE Daylighting 101, 201 Workshop in Ft. Collins
December 8 - 9 - 10:30 a.m.
[Register here!](#)

Location: The Neenan Company
2620 East Prospect Road, Suite 100
Ft. Collins, CO 80525

Renowned local architect Paul Hutton AIA, NCARB will detail the application of daylighting in public buildings. With more than 25 years of local design experience, Paul will discuss basic terminology as well as classic and advanced design techniques. Case studies from across Colorado will be discussed in order to illuminate specific benefits and architectural approaches. The cost of daylighting, using case studies, will also be detailed. Finally, the audience will be introduced to daylight modeling and coordination with electrical lighting.

Designers, Contractors, Building Owners and Maintenance professionals looking to learn more about the power of daylighting to reduce energy consumption and improve occupant comfort and performance are invited to join this free workshop at the Neenan Company's office.

LEARNING OBJECTIVES:

- Understand energy savings and human benefits from daylighting
- Become familiar with basic daylighting terminology
- Understand typical design strategies for daylighting buildings
- Develop realisting understanding of daylighting costs

This workshop has been approved for 1.5 LEED CEUs.

Other Classes include:

Energy Water Nexus 201
December 16 | Webinar
For details, [click here](#)

Operations and Maintenance 201 for High Performance Buildings

December 17 | Avon
For details, [click here](#)

Tipping Point: The Path to Net Zero 201
December 17 | Rifle
For details, go to HPBworkshops@state.co.us

Promoting Energy Efficiency in Your Community and the Future of Property Assessed Clean Energy (PACE)

Wednesday, Dec. 8, 2010

[Register here](#) by Dec.3

9 a.m. to noon at Westminster City Park Recreation Center Community Room [10455 Sheridan Boulevard](#) .

Retrofit programs are increasingly being embraced as communities look for ways to spur the local economy while increasing the comfort and efficiency of both commercial and residential buildings. Property Assessed Clean Energy Programs (PACE) are one financing model that enables cities and counties to offer low-interest loans for energy efficiency upgrades. This workshop will explore:

- the economic and environmental benefits of retrofit programs
- relevant state & federal legislation
- where PACE has been used in Colorado and elsewhere, and
- next steps for communities interested in residential retrofit programs.

Communities are encouraged to bring a team of representatives to the workshop, including an elected official, finance manager/director, sustainability coordinator and county assessor.

Presentations include:

- Energy, Economy & Employment--Demonstrated Economic Benefits of Retrofit Programs (NREL Study), Jason Coughlin, National Renewable Lab
- PACE Retrofits Program in Colorado--[Boulder County's Climate Smart Loan Program](#) , Commissioner Will Toor, Boulder County
- Statewide Opt-in Districts, Brett Johnson, Colorado Governor's Energy Office
- [Current State of PACE Nationally](#) and Alternative Financing Models, Cisco DeVries, Renewable Funding LLC

Add this event to your calendar. There is no fee to attend, but please [register](#) online to reserve a seat.

Wonder how you can do your small part to conserve energy?

A local non-profit, Colorado Interfaith Power and Light (ColPL), has received a grant from GEO to do 100 Senior Savers workshops within the next year. Although the workshops are specifically aimed at those 55+ and over, all ages are welcome and there is no charge to attend. Each workshop will help you make easy, money-saving lifestyle changes and teach you how to apply for

low-income utility assistance, appliance rebates and tax credits. The workshop leaders will assist you in creating a personal plan that fits your lifestyle.

A December workshop is scheduled for December 2nd, 2010 from 3 p.m. to 4 p.m. at the Hover Community, 1401 Elmhurst Dr., in Longmont. Pre-registration is recommended but not required.

To pre-register, contact either Sheila Long at 303-772-9292 x202 (slong@hovercommunity.org) or Betty Goebel at 303-429-5792 (bgoebel@coipl.org). Please provide workshop date, name, phone number, and number in party attending.

For more information, go to [Energy Saving Program](#) .

Want to know more about the Colorado Carbon Fund?

Over the last few years, the Colorado Carbon Fund has helped individuals and businesses learn about ways to reduce their greenhouse gas emissions. In return, over 47 million pounds of carbon dioxide emissions have been prevented from entering our atmosphere. That's the equivalent of the carbon sequestered by over ½ million trees grown for ten years or preventing the consumption of 2.4 million gallons of gasoline!

To find out more sign up for our e-newsletter at www.coloradocarbonfund.org. Or if you would like to receive up-to-date news on ways to reduce your carbon footprint you can follow us on [Twitter](#) and [Facebook](#). As a bonus you will be entered into monthly giveaway contests!

Together, we can and will continue to reduce CO2 emissions throughout Colorado.

GRANTS

December 2010 Grants

QECB Applications for Private Projects - Closes December 17, 2010

This Request for Applications is intended to select proposals in the private sector that would use Qualified Energy Conservation Bonds (QECBs) to assist in financing of Colorado clean energy projects. For more information please review the application and visit the [QECB webpage](#).

For more information go to [Funding Opportunities](#) on the GEO Website or contact Erika Gibson at grants@state.co.us.

Upcoming Events

[11/30/10 - 04/12/11 Online Green Building Certificate Program \(GBCP\)](#)

Denver, CO

12/03/10 - RETool: Developing Business & Career in the New Energy Economy - Class @ CU

Boulder, CO

12/03/10 - RETool: The Promise of Energy Efficiency - Developing Business & Careers in RE - CU

Boulder, CO

12/08/10 - 12/09/10 Colorado ENERGY STAR Summit - Early bird special ends Nov. 12

Denver, CO

12/09/10 - ENERGY STAR Summit

Denver, CO

12/12/10 - 12/17/10 Monthly BPI Building Analyst Training

Lakewood, CO

2011 - 2013 - University of Colorado Denver Executive MBA Program

Denver, CO

Fall 2011 - Green Homes Certificate Program (GHCP)

Denver, CO

Ongoing High Performance Building Workshops and Webinars

Denver, Colorado

Ongoing SEI workshops - Building for the Future: Sustainable Home Design Online

Denver, Colorado

Ongoing Solar Energy International's Renewable Energy Education Workshops

Denver, Colorado

Ongoing Sustainability Series Meetings - Tuesdays @ 6 p.m. Wynkoop

Denver, CO

For events details go to the [Events Calendar](#)

More news from the Governor's Energy Office

Renewable Energy in Municipal Buildings

This grant opportunity will provide funding to Colorado communities who did not receive an award of the Energy Efficiency and Conservation Block Grant from the U.S. Department of Energy. The funding may be used to install solar panels on a facility owned by a city, town or county. State government, colleges and universities, schools, and special districts are not eligible for this grant.

For more information about this request for applications [click here](#) and look under "Open Grants."

Upcoming Events

All lunch meetings are the third Thursday of the month at Indian Tree Golf Course unless noted otherwise

Stay Connected with the RMAEE!

Visit this award winning website at

<http://www.rmaee.org/>

We've added an employment section.

If you would like to post an employment notice please send your listing(s) to Dan Sachse at dan.sachse@xcelenergy.com.

Membership – It's time to renew for 2011!

- RMAEE Membership Fees for 2010-11 year are due. The RMAEE annual fee is \$50/person, unless you hold a National AEE membership. For National AEE members the RMAEE annual fee is \$40. Local membership gets you \$10 off the regular lunch meeting price of \$30 through out the year. Fill out the **application (below)** and fax, mail or email to Steve Kutska.
- Annual Corporate Memberships- Improved! An Annual Corporate Membership (ACM) is assigned to the company, thereby allowing any employee of the company to use this "Annual Corporate Membership" to attend RMAEE meetings. Each ACM allows one company employee to attend the meeting. This is different from previous years, when only the assigned employee could

use the Annual Corporate Membership. Each annual pre-pay of \$220/ACM receives one free lunch meeting.

Another membership benefit is the password protected member's corner on the RMAEE website, www.rmaee.org. All available presentations are stored here in PDF form for local members to download. If you are a local member and do not know the password send an email to dan.sachse@xcelenergy.com and the sign on and password will be mailed to your email address.

Rocky Mountain
Association of Energy Engineers



Membership Form

Members may join the local Rocky Mountain Chapter of AEE at any time during the year. Membership will run for one year from the month you join RMAEE.

Please send the completed form or attach a business card and send along with payment for your membership dues. We have 2 ways to pay – check payable to RMAEE or Credit Card (Master Card or Visa cards only).

Mail payment to:
Steve Kutska
Xcel Energy
1800 Larimer Street
Denver, CO 80202
Stephen.p.kutska@xcelenergy.com

For questions about membership call Steve Kutska at 303 571-7254.

RMAEE Local Membership Dues Form

Please complete this box or simply attach a business card and mail along with your payment.

- I am an AEE National Member – a check for \$40 is enclosed for Chapter Dues AEE Member
- I am NOT an AEE National Member – a check for \$50 is enclosed for Chapter Dues
- Prepay for \$220 for the year including chapter dues. (Make sure to include your Company's name on the application form.)
- Annual Corporate Membership; \$220/membership. Price includes all fees for one year and one free lunch/ACM.

Name _____

Company _____

Address _____

City, State, Zip _____

Phone _____

Email _____

Credit Card Information ___ Master Card ___ Visa

Card Number _____

Expiration Date _____

Name as it appears on card _____

Number of Annual Corporate Memberships: _____

Colorado Energy Events

If you know of other upcoming events that should be listed in this calendar, please contact Dan Sachse at dan.sachse@xcelenergy.com

Organization	Event	Location	Date	Contact
Rocky Mountain Association of Energy Engineers	January 2011 Lunch Meeting	Indian Tree Golf Course	Jan 20, 2011	http://www.rmaee.org
Colorado Renewable Energy Society	Legislative Day at the Capital Recharging Colorado - How New Energy and Smart Land Use Are Growing our Job Base	Old Supreme Court Room, 2nd Floor	December 9, 8 a.m. – 12 p.m.	RSVP to policy@cres-energy.org
Urban Land Institute		Xcel Building 1800 Larimer St 2 nd Floor Denver, CO Tallyn's Reach Library, 23911 E. Arapahoe Road, Aurora, CO 80016.	December 9 12:30 PM	http://www.cres-energy.org/events/documents/Registration Form 12.9.10.pdf
Colorado Solar Energy Industries Association	Savvy Solar Consumer Workshop		December 9 6 to 7 PM	RSVP for the workshop, call Diana Denwood at 303-739-7483

Colorado Governor's Energy Office:
<http://www.colorado.gov/energy/>

ASHRAE <http://www.ashrae.org/>

Rocky Mountain Electric League <http://www.rmel.org/>

IEEE <http://www.ieee.org/portal/site>

Colorado Renewable Energy Society –
<http://www.cres-energy.org/events>