

Rocky Mountain Association of Energy Engineers

Monthly Lunch Meeting
September 17, 2015 11:30-1:00



Where: Indian Tree Golf Course
7055 Wadsworth Blvd Arvada

China has been much in the economic news lately. That makes this month's presentation on Renewable Energy Deployment: Global and Local particularly timely. As renewable energy deployment accelerates around the world, the wind and solar industries have become a multi-billion dollar, global business. This talk will explore renewable energy market and policy trends and connect those trends to developments in Colorado.

Dr. David Mooney, leads NREL's Strategic Energy Analysis Center, and previously was responsible for managing and coordinating NREL's \$70M solar R&D portfolio, along with efforts to identify and address technical issues associated with the large-scale deployment and integration of renewable and efficiency technologies into the existing energy infrastructure. Dave has also testified as an expert witness before the U.S. House of Representatives' Subcommittee on Energy and Environment, and is extremely qualified to talk about deployment trends impacting renewable energy.

Analysis at NREL aims to increase understanding of the current and future interactions and roles of energy policies, markets, resources, technologies, environmental impacts, and infrastructure. This talk also serves as the perfect complement to the keynote at October's Energy Forum, so be sure to attend and bring your questions! To register on line click on [Lunch Registration](#). If you need a vegetarian entrée please click on [vegetarian](#)

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Presidential Wisdom

What's happening in our Industry?

CEM Class and Exam was hosted by RMAEE June 25th, 26th, 29th, and 30th with the exam on July 1st. We had 10 participants and a couple of additional test-takers. Our thanks to the Board members that hosted each day - and especially to Clint Christenson - our "local" instructor of the 5 day workshop/classes. And Welcome to the new CEMs!

From Industry Newsletters (tidbits from around the industry):

AEE Newsletter Headlines:

Senate Energy Bill Would Help Achieve the Nation's Geothermal Potential, Industry Leaders Say
[http://www.energyvortex.com/pages/headlinedetails.cfm?id=7435&utm_source=iContact&utm_medium=email&utm_campaign=AEE-](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7435&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.XltfKCG.dpuf)

[%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.XltfKCG.dpuf](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7435&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.XltfKCG.dpuf)

These 20 Cities Account For 6.5% Of US Solar PV Capacity (Denver is 7th or 8th):

[http://www.energyvortex.com/pages/headlinedetails.cfm?id=7434&utm_source=iContact&utm_medium=email&utm_campaign=AEE-](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7434&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.hPI8W0HZ.dpuf)

[%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.hPI8W0HZ.dpuf](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7434&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.hPI8W0HZ.dpuf)

Bank of America Issues \$600M Green Bond

[http://www.energyvortex.com/pages/headlinedetails.cfm?id=7358&utm_source=iContact&utm_medium=email&utm_campaign=AEE%20Energy,%20Power,%20Facilities%20Newsletter&utm_c](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7358&utm_source=iContact&utm_medium=email&utm_campaign=AEE%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter)
[ontent=AEE+Energy+Newsletter](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7358&utm_source=iContact&utm_medium=email&utm_campaign=AEE%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter)

Electric Vehicle Tariffs from Utilities Gaining Traction In US - See more at:

[http://www.energyvortex.com/pages/headlinedetails.cfm?id=7405&utm_source=iContact&utm_medium=email&utm_campaign=AEE-](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7405&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.vj3PvwME.dpuf)

[%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.vj3PvwME.dpuf](http://www.energyvortex.com/pages/headlinedetails.cfm?id=7405&utm_source=iContact&utm_medium=email&utm_campaign=AEE-%20Energy,%20Power,%20Facilities%20Newsletter&utm_content=AEE+Energy+Newsletter#sthash.vj3PvwME.dpuf)

Other sources of EE/RE Information: A new site I recently discovered -

<http://www.dailyenergyreport.com/>. A truly wide variety of EE and RE news is available on this site.. From AEE (National): <http://www.aeecenter.org/>

[Upcoming Conferences 2015 &16 -](#)

o WORLD ENERGY ENGINEERING CONGRESS (WEEC), September 30-October 2, 2015 Orlando, FL.

<http://www.energycongress.com/>

o Globalcon, March 9-10, 2016 Hynes Convention Center, Boston, MA. www.globalconevent.com

o Energy Management Congress (EMC), May 25-26, 2016 Washington State Convention Center, Seattle, WA. www.energyevent.com

Monthly Meetings Info

We start the 2015/16 year of RMAEE Meetings and events with a Lunch Meeting September 17th, 2015 - Indian Tree Golf Club, 7055 Wadsworth Blvd, Arvada. The September presentation is by Dr David Mooney, lead NREL Strategic Energy Analysis Center, who will talk on Renewable Energy Deployment: Global and Local particularly timely. As renewable energy deployment accelerates around the world, the wind and solar industries have become a multi-billion dollar, global business. This talk will explore renewable energy market and policy trends and connect those trends to developments in Colorado.

Put on your calendars - 16th Annual Energy Forum is October 22, 2015 at Denver Police Protective Association (PPA) Event Center, 2105 Decatur St. Denver, CO 80211
(General area is I-25 and Speer)

Former PUC Chairman Ron Binz has agreed to be our keynote speaker and this is a great one day conference.

As always, we need more members to volunteer to be on the Board, please. Contact any Board member if you are interested.

And please contact any of the Board with suggestions or commentary on how we can improve RMAEE for you.

Sincerely,

Thom W Johnson

RMAEE Chapter President, 2015

Membership – It may be time to renew!

- □ RMAEE Membership Fees may be 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 corporate membership
- 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.

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.

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
- Annual Corporate Membership - 220.00 per year allows the company to send one employee to each meeting. This also includes one free lunch meeting.

Name _____

Company _____

Address _____

City, State, Zip _____

Phone _____

Email _____

Credit Card Information ___ Master Card ___ Visa

Card Number _____

Expiration Date _____

Name as it appears on card _____

As a reminder to anyone holding an AEE certification:

Each certified professional is required to obtain Continuing Education Units (CEU) or Professional Development Hours (PDH) each renewal period. AEE does not maintain a record of your continuing education in the interim so you must maintain your own record of continuing education and complete a recertification form at the time of your renewal. A total of 10 renewal credits are required utilizing a combination of the following:

- Employment in energy activities
- Membership in a professional organization
- Office held in professional organization
- Continuing education (courses, seminars)
- Energy conference attendance
- Professional awards or published/presented papers

For more information, examples of how to tabulate credits, and how contact hours (CEUs, PDHs, etc) are converted to AEE credits see

<http://www.aeecenter.org/i4a/pages/index.cfm?pageid=3771>

Rocky Mountain Association of Energy Engineers

“Policies and Solutions Shaping Our Energy Future”

16th Annual Energy Forum
October 22nd, 2015
8:30 AM to 4:00 PM

Denver Police Protective Association (PPA) Event Center
2105 Decatur St. Denver, CO 80211
General area is I-25 and Speer
<http://www.rmaee.org/>

Participants will receive 6 Continuing Education Hours. Lunch and continental breakfast are included with paid admission of \$65 for RMAEE members and \$85 for nonmembers. This price ends at midnight October 20th. At the door registrations - the prices increase \$10 each. Students with Valid ID will be admitted for free.

Free parking is available in the lot across the street from the PPA venue.

Continental Breakfast and Registration Opens at 7:30 AM. Conference and speakers start at 8:30 AM.

Preliminary agenda (speakers and order of presentations subject to change)

EPA's Clean Power Plan - William Allison (Air Pollution Control Division Director) will present on Colorado's possible responses to the EPA's 111d Clean Power Plan rule and how to engage in that effort.

ESCO Case Studies Session - Key stakeholders (such as client and ESCO representatives) will present case studies that demonstrate ways of overcoming challenges and successes in using the ESCO model to implement energy efficiency projects in Colorado.

Net Zero Energy Projects in Army Facilities - This presentation will highlight work done by the National Renewable Energy Lab (NREL) and the Army to advance net zero energy at Army facilities.

Colorado State University Solar PV Case Study - Carol Dollard will discuss financing, installation, and results of this solar array at CSU.

Lunch

Keynote - Ron Binz, former PUC chair and visionary leader towards the Grid 2.0, will discuss policy developments and new technologies impacting energy generation, consumption, and transmission.

Energy Efficiency in Agriculture - Sam Anderson of the Colorado Dept. of Agricultural will talk about funding sources and various programs, including small hydro, available to promote energy efficiency and energy production in the ag sector.

Commercial Property Assessed Clean Energy (CPACE) - Paul Scharfenberger, CPACE Program Manager for the Colorado Energy Office (CEO), will provide an overview of this program to provide financing for energy efficiency in Colorado's commercial building stock.

Investor Confidence Project - Tracy Phillips will discuss the various ICP protocols, how they are being implemented on Colorado projects, and how these protocols may interact with initiatives such as CPACE.

DC Microgrids - John Phelan is the Energy Services Manager for Fort Collins Utilities, leading the team that provides energy efficiency, conservation, demand response and renewable energy services will discuss the new Utilities facility in Ft Collins including the use of a DC microgrid.

Colorado Energy Events

If you know of other upcoming events that should be listed in this calendar, please contact RMAEE at [Energy Events](#)

Organization	Event	Location	Date	Contact
RMAEE	Monthly Lunch Meeting	Indian Tree Golf Course	September 17, 2015	http://www.rmaee.org/
USGB	Talk and Tour: Passive Aggressive Design - Engaging the Student Experience	The Pavilion Building at Colorado State University, Fort Collins, CO	September 10, 2015	http://usgbccolorado.org
USBG	Green School Initiative School Meeting	The Alliance Center, Denver, CO	September 16, 2015	http://usgbccolorado.org
RMAEE	Policies and Solutions Shaping Our Energy Future	Denver Police Protective Association Event Center	October 22, 2015	Register Here

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>

Solar Energy International -
<http://www.solarenergy.org/worksho>