RENEWABLE ENERGY CREDITS (REC) MARKET DYNAMICS & TRADING

June 12 – 13, 2017
Nixon Peabody LLP
Boston, MA

EUCI is authorized by IACET to offer 1.0 CEUs for the symposium

SUPPORTING ORGANIZATION

M-RETS
OVERVIEW

Renewable energy credits (RECs) are one of a growing number of environmental commodities that are an essential, but often overlooked, component of all renewable energy developments and financial transactions. Most utilities, project developers, and capital sources understand the principle that a REC is created for each megawatt-hour of renewable electricity generated and delivered to the power grid, representing the legal rights to the environmental benefits associated with this power production. Companies that cannot directly invest in solar panels or wind turbines may purchase RECs and can benefit from the flexibility that RECs provide them. However, it is often difficult to understand and fully value the multiple ways that RECs can be sold, bartered or traded as a commodity to their benefit.

This symposium provides a unique opportunity to learn the fundamentals of RECs and their relationship to renewable portfolio (RPS) mandates, while also advancing an organizational “game plan” for business strategy and successful compliance. It will describe the nuances of U.S. REC markets, devoting most attention to the growing and dynamic northeastern U.S. market, analyzing key financial and contractual considerations for RECs and exploring how emerging policies will impact the future of REC markets. The training will showcase how properly addressing RECs in a renewable energy project development transaction can make a significant difference in that project’s bankability and profitability. There will be a discussion on typical processes for REC verification, certification, system administration, and appropriate financial structuring to achieve their optimum transactional value. And state government regulatory staff charged with administering the New England REC market will discuss tips for REC compliance, as well as evaluate impacts of new and evolving regional policies on state RPS and REC markets. Attendees will come away with a current and in-depth understanding of REC market forces, dynamics and trading instruments, as well as benefit from an interactive “REC trading” exercise to gain hands-on experience in the commodity marketplace.

LEARNING OUTCOMES

• Evaluate Renewable energy credit (REC) markets on a national, regional and state perspective
• Discuss fundamentals of registering, selling, settling and tracking RECs
• Describe the New England REC market and New England states covered with RPS programs
• Examine REC market dynamics, transaction and trading fundamentals
  o Solar renewable energy credit (SREC) markets
• Review best practices for managing REC tracking systems and functional activities on the administrative level
• Analyze historical REC pricing information, market liquidity, and causes for market fluctuations
• Discuss best practices for REC compliance in New England markets for state RPS goals
• Evaluate potential impacts to REC markets from changing regulation and policy
• Identify types of transactions, contract options and processes to piece together a successful financial package
• Assess new and innovative ways to trade and monetize RECs, such as an upcoming spot market in NEPOOL and PJM

“EUCI conferences are targeted at industry insiders and each one dives deep into specific topics. This REC program is great for anyone looking to expand connections within their industry or those new to the material.”

CEO, EDGE Energy

“The panel discussions and final mock trading were very useful and informative.”

AGENDA

MONDAY, JUNE 12, 2017

7:30 – 8:00 am  Registration and Continental Breakfast

8:00 – 9:30 am  Introduction to Renewable Energy Credit Markets
• Background and history of renewable energy credits (RECS)
• Structure of RECs from a legal and regulatory standpoint
  o Renewable portfolio standard (RPS) programs
  o National perspective
  o Regional perspective
• Compare and contrast regional markets
  o State perspective
• How are RECs created?
• How are RECs transferred?
• REC procurement and sale
• Regulatory/legislative issues
• New England Renewable Energy Credits (RECs) overview
  o Economic impact
  o Environmental impacts of energy and carbon on wholesale electric markets
  o Low and zero emissions renewable energy credit (LREC/ZREC) programs
• States covered in New England with RPS programs
  o Maine
  o Massachusetts
  o New Hampshire
  o Vermont
  o Rhode Island
  o Connecticut

Christie Bradway, Manager – Renewable Power Contracts, Eversource Energy
Terri Murray, Environmental Markets Specialist, Capital Power Corporation

9:30 – 9:45 am  Morning Break

9:45 – 11:45 am  State Panel: Regulation, Compliance and Policy in NEPOOL GIS
The New England Power Pool Generation Information System (NEPOOL GIS) issues and tracks REC certificates for all MWh of generation and load produced in the ISO New England control area, as well as imported MWh from adjacent control areas. This session will feature presentations from state regulatory staff involved in NEPOOL GIS re: the history of their states’ renewable portfolio standard (RPS), discussing how RPS works in their states, qualifying resources, and an overview of the application, tracking, and certification management processes. Speakers will then participate in a panel discussion to discuss regional nuances of New England REC markets, tips for compliance, and evaluate the impacts of new and evolving policies on state RPS and REC markets.

Moderator: Ruth Silman, Boston Office Managing Partner, Nixon Peabody LLP
Michael Judge, Director – Renewable and Alternative Energy Division, Massachusetts Department of Energy Resources
Karen Cramton, Director – Sustainable Energy Division, New Hampshire Public Utilities Commission
Teddi Ezzo, Utilities Examiner – Bureau of Energy Technology, Connecticut Department of Energy and Environmental Protection
Christopher Kearns, Chief – Program Development, Rhode Island Office of Energy Resources

11:45 am – 12:45 pm  Group Luncheon
AGENDA

12:45 – 1:45 pm National REC Registries & Administrative Aspects of Operation
- Overview of RECs regional markets and North American REC Tracking Systems, or Registries
  - Texas Renewable Energy Credit Program
  - PJM- Generation Attribute Tracking System
  - Western Renewable Energy Generation Information System (WREGIS)
  - Midwest Renewable Energy Tracking System (M-RETS)
  - North American Renewables Registry (NAR)
  - Michigan Renewable Energy Certification System (MIRECS)
  - Nevada Tracks Renewable Energy Credits (NVTREC)
  - North Carolina Renewable Energy Tracking System (NC-RETS)
  - New England (NEPOOL GIS)
- Review how different registries operate
- Tips for programmatic day to day, administration and operation
- Compare and contrast regional markets: key differences
- Midwestern RECs: understanding the opaque market and evaluating future opportunities
  Benjamin L Gerber, Executive Director, Midwest Renewable Energy Tracking System (M-RETS)

1:45 – 3:15 pm Renewable Energy Credit (REC) Market Dynamics
- REC market forces and dynamics
  - Supply/demand fundamentals
  - REC statistics by technologies
  - REC statistics by state
- Multi-state qualification
- Identify number of RECs needed per state to meet mandates
- Solar renewable energy credits (SRECs)
- Carve-outs, set-asides and other focusing instruments
- Describe a summary of oversupply/undersupply in the market
- Identify the function of alternative compliance payment mechanism
- Analyzing historical REC pricing dynamics
  - Regional pricing correlations, shifts, and their causes
  - Impacts of new builds, changing imports/exports, and new policies on the market
  Erin Eckenrod, Head of Environmental Products, EDF Trading North America
  Terri Murray, Environmental Markets Specialist, Capital Power Corp

3:15 – 3:30 pm Afternoon Break

3:30 – 5:00 pm Renewable Energy Credit (REC) Transactions & Trading Fundamentals
- Identify REC market players (buyers, sellers, brokers, traders)
- Technicalities of a REC transaction process
  - Successful transaction mechanisms
  - Trade execution
- Structured transactions
- Work day in the life of a REC market participant
  - Trading RECs in voluntary and compliance markets
  - Volume of RECs
  - Value of transactions
  - Types of transactions
  Christie Bradway, Manager – Renewable Power Contracts, Eversource Energy
  Jennifer Butt, Commodities Broker – Environmental Products, Marex Spectron
  Patrick McFadden, Environmental Products Broker, Marex Spectron
AGENDA
TUESDAY, JUNE 13, 2017

7:30 – 8:00 am  Continental Breakfast

8:00 – 10:00 am  REC Project Finance & Contract Options
• Piecing together a financial package for RECs
  • Project finance through REC transactions
    o Selling long-term REC obligations
    o Hedging forward REC compliance needs
  • Debt and equity
    o Contracts to sell RECs
    o Different types of REC contracts
    o Structuring long-term REC contracts
    o REC contract implications on financing
  • Contract/transaction case study
    o Kearsarge Energy

  Andrew Bernstein, Managing Partner, Kearsarge Energy
  James Duffy, Partner, Nixon Peabody LLP
  Brian Morrissey, Managing Director, Citizens Energy Corp
  Tony Grappone, Partner, Novogradac & Company LLC

10:00 – 10:15 am  Morning Break

10:15 – 11:15 am  Mock REC Trading Exercise
• Role-play as a REC market buyer (seller, buyer, trader)
• Market dynamic exercises with mock injections of market forces
• Practice buying, selling and trading

  Patrick McFadden, Environmental Products Broker, Marex Spectron
  Jennifer Butt, Commodities Broker – Environmental Products, Marex Spectron

11:15 – 11:45 am  New and Innovative Ways to Trade and Monetize RECs
In some instances, project developers will want to sell their RECs after a transaction as quickly as possible. More such quick turnaround transactions can help secure a good REC price in volatile markets, and help overcome the costly transaction requirements for upfront capital and credit. A new initiative is seeking to fill this market niche in US REC markets, by launching a REC ‘spot trading’ platform that would facilitate inter-day REC trading. This session will evaluate how a REC spot trading platform could change the market and bring new opportunities for REC market participants. It will focus on NEPOOL and PJM, two markets where the platform is planning to launch.

  Scott Hernandez, Vice President – North America, CBL Markets

11:45 am  Symposium Concludes

“The program was great. It covered the topics needed for a REC seller.”

Associate Electrical Engineer, MWRD
INSTRUCTIONAL METHODS

PowerPoint presentations, interactive dialogue and instructor/panel discussions will be used to present the material.

REQUIREMENTS FOR SUCCESSFUL COMPLETION

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the AN-SI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the AN-SI/IACET Standard.

EUCI is authorized by IACET to offer 1.0 CEUs for the symposium

EVENT LOCATION

Nixon Peabody LLP
100 Summer St., 25th floor, Pokross Room
Boston, MA 02110

NEARBY HOTELS

<table>
<thead>
<tr>
<th>Hotel Name</th>
<th>Address</th>
<th>Phone</th>
<th>Distance from Office</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyatt Regency Boston</td>
<td>One Avenue De Lafayette</td>
<td>(617) 912-1234</td>
<td>0.2 miles from office</td>
</tr>
<tr>
<td>Boston, MA, 02111</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Godfrey Hotel Boston</td>
<td>505 Washington Street</td>
<td>(617) 804-2000</td>
<td>0.2 miles from office</td>
</tr>
<tr>
<td>Boston, MA, 02111</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>InterContinental Boston</td>
<td>510 Atlantic Ave</td>
<td>(617) 747-1000</td>
<td>0.3 miles from office</td>
</tr>
<tr>
<td>Boston, MA, 02210</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Harborside Inn Of Boston</td>
<td>185 State St</td>
<td>(617) 723-7500</td>
<td>0.4 miles from office</td>
</tr>
<tr>
<td>Boston, MA, 02109</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to these symposiums may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.

SPONSORSHIP OPPORTUNITIES

Do you want to drive new business through this event’s powerful audience? Becoming a sponsor or exhibitor is an excellent opportunity to raise your profile before a manageably sized group of executives who make the key purchasing decisions for their businesses. There is a wide range of sponsorship opportunities available that can be customized to fit your budget and marketing objectives, including: Platinum, gold, or VIP sponsor, Reception host, Networking break host, Tabletop exhibit, Workshop sponsor, Lanyard sponsor, Luncheon host and Breakfast host.

Please contact Maggie Field at mfield@euci.com or 720-988-1250 for more information.
PLEASE SELECT

- RENEWABLE ENERGY CREDITS (REC) MARKET DYNAMICS & TRADING SYMPOSIUM
  JUNE 12 – 13, 2017: US $1495
  Early bird on or before May 26, 2017: US $1295

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name | Job Title
---|---

Company

What name do you prefer on your name badge?

Address

City | State/Province | Zip/Postal Code | Country
---|---|---|---

Phone | Email
---|---

List any dietary or accessibility needs here

CREDIT CARD INFORMATION

Name on Card | Billing Address
---|---

Account Number | Billing City | Billing State
---|---|---

Exp. Date | Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx) | Billing Zip Code/Postal Code
---|---|---

OR Enclosed is a check for $ ____________________ to cover ____________________ registrations.

Substitutions & Cancellations
Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before May 12, 2017 in order to be refunded and will be subject to a US $195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. In the event of non-attendance, all registration fees will be forfeited. In case of conference cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at 303-770-8800. EUCI reserves the right to alter this program without prior notice.