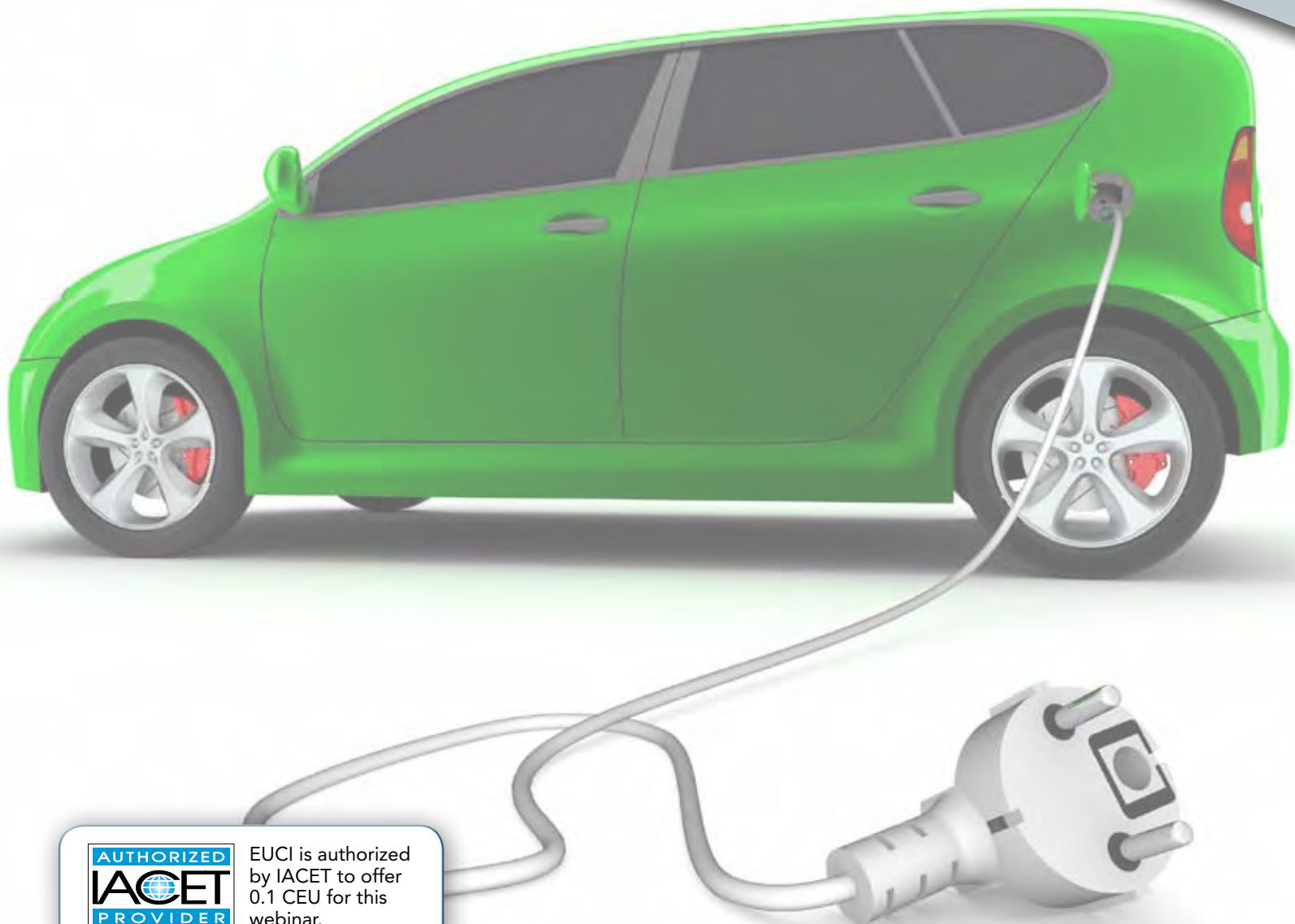


EUCI Presents a Web Conference on:

HARVESTING THE BENEFITS OF VEHICLE-TO-GRID TECHNOLOGY (V2G)

September 22, 2010 • 12:00 – 1:30 p.m. Eastern Time



EUCI is authorized
by IACET to offer
0.1 CEU for this
webinar.

HARVESTING THE BENEFITS OF VEHICLE-TO-GRID TECHNOLOGY

September 22, 2010

12:00 – 1:30 p.m. Eastern Time

OVERVIEW

Vehicle-to-grid (V2G) is a system where an electrical power grid works in conjunction with electric vehicles. The idea is that when electric vehicles are not being used for transportation, the power from their batteries can be sold to the power grid. When the vehicles are parked, the energy from their batteries could be used to let electricity flow from the cars to the power grid and back again. The utility companies would have the benefit of the extra power for other places and uses. Unique opportunities for utilities, smart metering, and software companies will develop as this idea gains traction.

The growth of EVs can provide other unique opportunities in the context of the smart grid. Given the addition of a large number of batteries via electric vehicles, there is the potential to aggregate the batteries to create an energy storage buffer. This buffer can absorb excessive power during low-load periods such as nighttime, and it can become a source of electrical power during high-load periods such as a hot summer afternoon. This source of energy can also provide buffer power for smoothing out frequency fluctuations resulting from mismatched demand (generation vs. consumption), and it can be implemented by the utilities as demand dispatch.

LEARNING OUTCOMES

- Recognize the ability of EVs to alleviate peak load
- Identify EVs as energy storage units
- Examine the specifications that will make V2G technology possible
- Define options to better manage consumer power use and costs

PROGRAM AGENDA

- What are the EV specifications that need improvement to make V2G realistic?
- Will these specifications be created independent of the utilities?
- Using V2G to manage peak load
- Better and more consistent power provided to consumers
- More options available for consumers to better manage electricity use and costs
- How the utility can best implement systems based on the time of day charging takes place
- Technology advances in back-up power solutions

INSTRUCTOR

John Bryan is the president of the Secure Smart Grid Association. He is also the project director for the still-unfunded regional intra-transmission project, Rocky Mountain Secure Smart Grid Initiative. He previously was Xcel Energy's Utility Innovations' program manager responsible for their vehicle-to-grid plug-in hybrid electric vehicle (V2G PHEV) project, the SmartGridCity distributed generation program, and the utility's ambitious 1 MW wind-to-battery energy storage project. Bryan is an ex-quality engineer and manufacturing engineer from the automotive manufacturing industry. He worked for a Tier 1 supplier to Ford, GM, Toyota, and others and has led telecommunications deployment programs for Qwest Communications. Prior to that, he was the owner and operator of a 25-employee rapid prototyping manufacturing plant for four years.

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As a result of their Authorized Provider membership status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards.

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Requirements for Successful Completion of Program

Participants must be logged in to the web conference for its entirety to receive continuing education credit.

Instructional Methods

Web-based PowerPoint presentation and online, interactive question-and-answer session.

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LOGGING IN TO THE WEB CONFERENCE

After registration, each registrant will receive a confirmation of payment or an invoice, depending on method of payment. Each registrant will also receive an e-mail with appropriate login information and more information regarding the event 24 hours prior to the start of the event. To log on, you will need a Windows PC with a broadband connection and audio system.

WHAT IS A SINGLE SITE CONNECTION?

A site connection allows a single connection to the web conference. That connection is open to any number of users in a collaborative setting. Because there are no travel expenses and only a single registration fee is required, each additional participant lowers the cost per participant significantly.

By purchasing a site connection, you can invite as many people as you would like to view and participate in the session from a single location. Set up the session in a conference room and project the presentation and chat on a large screen. You also have rights to distribute copies of the presentation materials to everyone involved. Please note that audio is received via the computer sound system and must be broadcast to your group.

If for any reason a relevant stakeholder cannot co-locate for the session, we encourage you to include that person by purchasing an additional connection at the reduced fee of \$195 per session. This will ensure that every member of a team receives the same relevant, timely information in the most efficient way.

If you have any technical or purchasing questions, please contact us at (201) 871-0474.

Start Time: 12:00 p.m. Eastern Time

United States Regional Start Times:

9:00 a.m. Pacific :: 10:00 a.m. Mountain :: 11:00 a.m. Central :: 12:00 p.m. Eastern

Use the time zone converter at (<http://www.timezoneconverter.com/cgi-bin/tzc.tzc>) to find your correct start time.

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REGISTRATION INFORMATION

Mail or fax this form along with payment. You will receive a confirmation and/or invoice within 48 hours. Make checks payable to PMA.

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REFUND / CANCELLATION POLICY

All cancellations received prior to September 3, 2010 will be subject to a US \$50 processing fee per web conference per registrant. Written cancellations received after this date will create a partial credit of the tuition good toward any other EUCI conference, publication or web conference. This credit will be valid for six months. No refunds will be given after August 13, 2010 in any case. In case of web conference cancellation, EUCIs' liability is limited to refund of the web conference registration fee only.

PLEASE REGISTER THE FOLLOWING

- Harvesting the Benefits of Vehicle-to-Grid Technology
September 22, 2010, Single Site Connection: US \$345
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Number of additional connections: _____
- Web Conference Presentations Available on CD:**
CDs are available 48 hours after the web conference is complete. The cost per CD is US \$295 (add US \$50 for international shipments). Upon receipt of order and payment, the CD will be shipped to you.
NOTE: All web conference CD sales are final and are non-refundable.

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

Name _____ Job Title _____

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PAYMENT METHOD

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