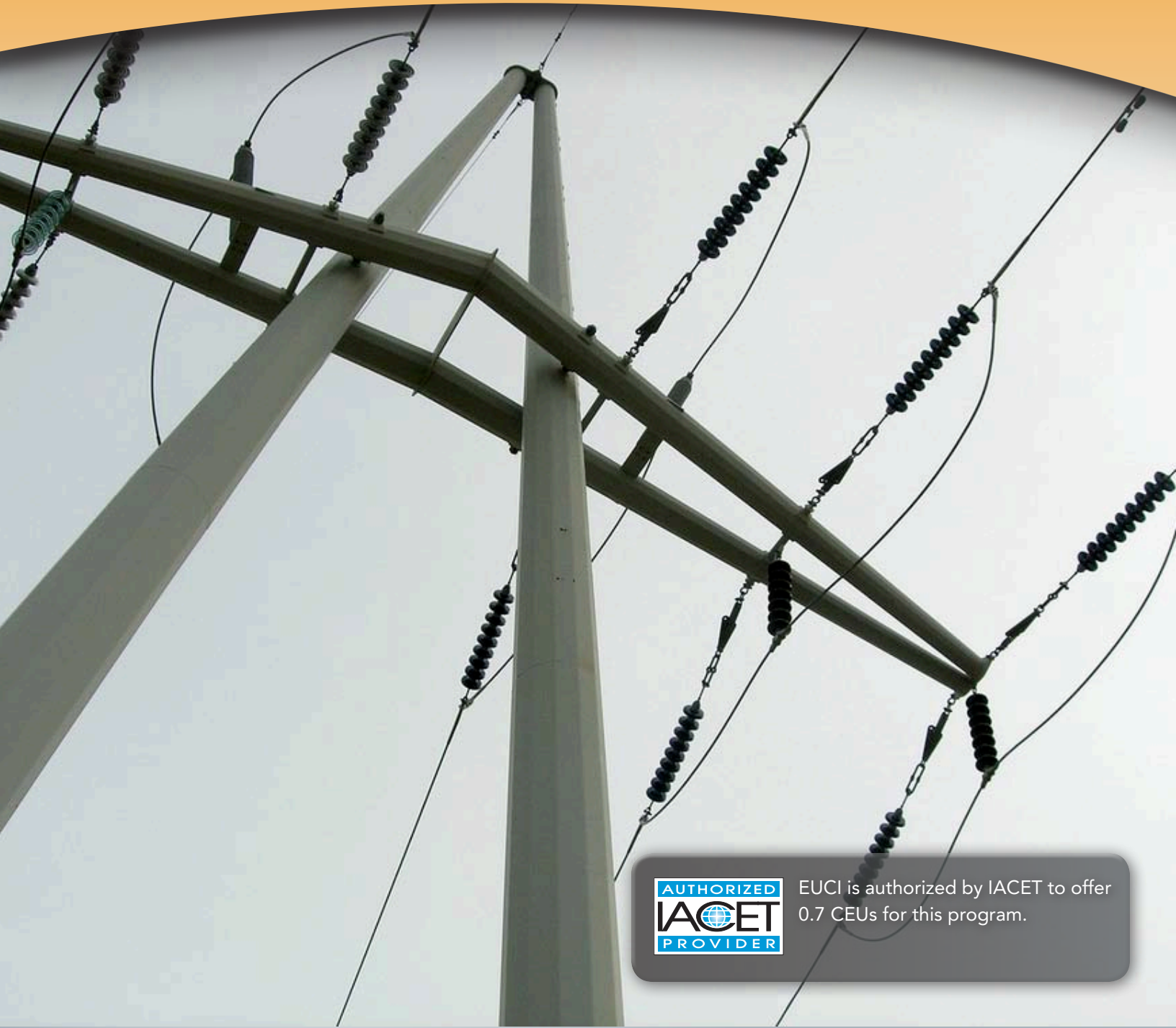


EUCI presents:

POWER SYSTEM PRIMER

March 19, 2012 • Hyatt Regency Vancouver • Vancouver, BC



EUCI is authorized by IACET to offer 0.7 CEUs for this program.

March 19, 2012

OVERVIEW

This one-day seminar is intended for the lawyer, manager, accountant, regulator, IT person, or other professional who wants or needs a basic understanding of electric power systems. This seminar uses analogies to illustrate the basic concepts of power system components and how they fit together. An overview of how power systems are designed and operated is also included. Lastly, how revenue is generated and how the customer is charged are illustrated. Attendees are not required to have engineering or technical backgrounds.

LEARNING OUTCOMES

During the course, you will learn to:

- Illustrate basic electricity concepts, including voltage, current, power, three-phase power, and energy
- Explain components of the power system and how they fit and work together
- Discuss design and operation of electric utility systems
- Identify drivers of system design and operation
- Illustrate revenue generation and customer-charging practices

WHO SHOULD ATTEND

- Directors, officers, and senior managers without previous electric utility experience
- Non-engineers new to the industry or with limited industry experience with, for example, legal, financial, regulatory, customer care, or community-relations responsibilities (individuals in other responsibility areas can benefit as well)
- Investors and financial analysts seeking a better understanding of the industry
- Managers and supervisors of commercial and industrial facilities
- Regulatory, municipal, and legislative personnel dealing with issues related to the industry

IACET



EUCI has been approved as an

Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102. In obtaining this approval, EUCI has demonstrated that it complies with the ANSI/IACET Standards, which are widely recognized as standards of good practice internationally.

As a result of its 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 sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

Instructional Methods

PowerPoint presentations will be used in this course.

March 19, 2012

PROGRAM AGENDA

MONDAY, MARCH 19, 2012

Registration and Continental Breakfast: 8:00 – 8:30 a.m.

Course Timing: 8:30 a.m. – 5:00 p.m.

Group Luncheon: 12:00 – 1:00 p.m.

Power System Overview

- Introduction
- Objectives
- Questions

Highway Analogy

- Relation between roads, interchanges, factories, and loads

Basic Electricity

- Voltage
- Current
- Power
- Energy
- Three-phase power
- Power triangle

Basic Magnetism

- Magnet and flux

Generators

- Types
- Energy conversion

Transformers

- Why they're used
- Types

Transmission Lines

- Why different voltages
- Conductors

Loads

- Types
- Why they vary

Protecting the Power System

- Protection as insurance

Designing the Power System

- Where do you start?
- Where do you finish?

Operating the Power System

- What operators do

Finances

- How do we pay?
- What do we pay for?

INSTRUCTOR

W.O. (Bill) Kennedy, P.E., FEIC

Bill has 40 years of professional experience in the electric industry in Canada. He runs a consulting practice that helps companies solve problems related to their power supply, interconnection to their utility, and energy usage. Previously, he was a principal engineer for Alberta Electric System Operator (AESO), where he was responsible for identifying and solving transmission-related issues. While at AESO, he developed and delivered seminars on electric power systems for non-technical staff. Prior to AESO, Bill worked at ESBI Alberta as its director of measurement and protection, at Saskatchewan Power Corporation in Regina, and at the Shawinigan Engineering Company Ltd. in Montreal. Bill has broad expertise in power system planning, design, and operation for both utility and industrial power systems, as well as extensive knowledge of the deregulated electric industry in Alberta.

PROCEEDINGS

The proceedings of the course will be published, and one copy will be distributed to each registrant at the course.

EVENT LOCATION

The course will take place at the Hyatt Regency Vancouver, 655 Burrard Street, Vancouver, British Columbia, Canada V6C 2R7. The hotel's phone number is 1-604-683-1234.

REGISTRATION INFORMATION

REMEMBER: EVERY FOURTH REGISTRANT IS FREE

For instant registration, call (201) 871-0474 or fax the registration form to (253) 663-7224.

Register Three; Send Fourth Free!

Any organization wishing to send multiple attendees to this course may send one FREE for every three delegates registered. Please note that all registrations must be made at the same time to qualify.

All cancellations received on or before February 17, 2012, will be subject to a \$195 processing fee. Written cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event or publication. This credit will be good for six months. In case of event cancellation, Electric Utility Consultants' 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 (201) 871-0474.

FIVE EASY WAYS TO REGISTER	
One: CALL (201) 871-0474	Two: FAX (253) 663-7224
Three: E-MAIL register@pmaconference.com	Four: MAIL PMA P.O. Box 2303 Falls Church, VA 22042
Five: WEB SITE www.pmaconference.com	

PLEASE REGISTER THE FOLLOWING

- Power System Primer
March 19, 2012: US \$895 (+ 12% HST = US \$1002.40)
Early bird on or before March 9, 2012: US \$795 (+ 12% HST = US \$890.40)

ENERGIZE WEEKLY

EUCI's *Energize Weekly* e-mail newsletter compiles and reports on the latest news and trends in the energy industry. Newsletter recipients also receive a different, complimentary conference presentation every week on a relevant industry topic. The presentations are selected from a massive library of more than 1,000 current presentations that EUCI has gathered during its 25 years organizing conferences.

- Sign me up for *Energize Weekly*.**

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

Name _____ Job Title _____

Name Preferred for Badge _____ E-mail _____

Company _____ Telephone _____

Address _____ City _____ State _____ ZIP _____

Check here if you have any dietary or accessibility needs. We will contact you for more details.

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Visa and MC cards have a 3-digit code on the signature panel on the back of the card, following the account number. American Express cards have a 4-digit code on the front of the card, above the card number.

Name on Card _____ Signature _____

Account Number _____ Exp. Date _____

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Billing Address _____ Billing ZIP Code _____

OR Enclosed is a check for \$ _____ to cover _____ registrations.