

Smart Grid 101 'The Future is Now' SUST 802



Smart Grid 101 'The Future is Now'

Course ID: SUST-802 (1 Day)
October 14 , 2009, 8:30 A.M. to 5 P.M.
EOS Alliance Training Center
650 South Orcas Street, Suite 220
Seattle, WA 98108

Instructor: *Bryan Zetlen, EOS Alliance*

This course provides a comprehensive introduction to smart grid technology including deployment and applications. The material focuses on high-level aspects of smart electrical grids, and the benefits, challenges, and opportunities in the present economy. The course also addresses the increase in electric vehicles and plug-in hybrids, and associated demand for smart grid charging stations. The specific technical aspects of smart grid engineering and systems design are beyond the scope of this one-day course and will be covered in future courses intended for smart grid workforce development and systems management professionals.

Course Topics:

Origins of the Smart Grid

Smart Grid Design/Structure

Smart Grid Applications and Benefits

Smart Grid Components and How Emerging Electric Vehicle Charging Stations Connect to the System

Key Players and Roles in Smart Grid Implementation

Smart Grid Implementation Costs and Current Budgets

Smart Grid Objectives for Energy Policy

Government, Business, and Education Sector Development; and Job Creation

About the Instructor: **Bryan Zetlen** has 25 years experience in technology and infrastructure development, general management of companies working on energy efficiency, conservation, and systems optimization. His work experience includes:

- Energy production and utility infrastructure development with agencies and organizations including Southern California Edison, PG&E, Consolidated Edison, and Bonneville Power Administration;
- Program management of technical and regulatory matters for U.S. Department of Energy, U.S. Army Corps of Engineers, U.S. Department of Defense, U.S. Environmental Protection Agency, and U.S. Department of the Interior;
- Commercial/space/defense environmental & climate analysis projects in conjunction with Lawrence Livermore National Laboratory, Sandia National Laboratory, Idaho National Engineering Laboratory, Los Alamos National Laboratory, Lawrence Berkeley Laboratory, and the Electrical Power Research Institute; and
- Energy technology & infrastructure management (nuclear, fossil, solar, wind, biomass, tidal), conservation & sustainability policy development & logistics planning, renewable/sustainable energy systems, regulatory & policy development in technology transfer.

Outcomes: Course participants will gain an improved understanding of the current state of smart grid technology, the economic opportunities, employment opportunities, and impacts on home and business efficiency.

Intended Audience: This course is intended for those seeking an improved understanding of smart grid deployment, system design, employment and business opportunities, challenges, and sustainability factors.

Education Level: Introductory/Review

Course Materials: Participants will receive course proceedings and reference materials.

Continuing Education Units: 0.7

What to Bring: Pen or pencil, coffee mug, and a water bottle (to reduce waste). Please wear comfortable clothes appropriate for the prevailing weather. Lunch will be on your own. There are numerous restaurants within walking distance. Drinks and snacks will be provided each day.

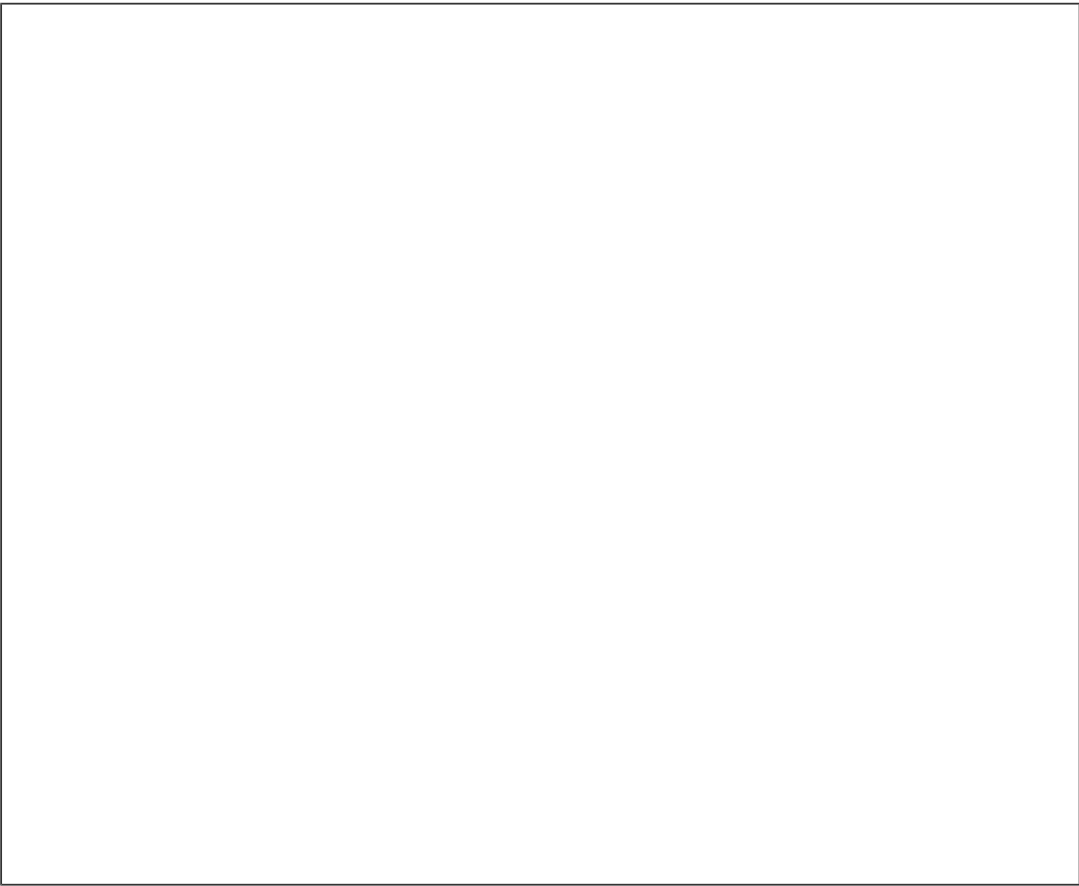
Registration: \$295. Reduced tuition is available for Native American tribes; government employees; nonprofits; students; and NAEP, NEBC, NWAEP members (reduced tuition is \$235). You may register via the link below or by calling the Northwest Environmental Training Center at 206-762-1976.

Cancellation Policy: *Registration fees are fully refundable up to 30 days prior to the event and 50 percent refundable (or 100% credit) thereafter up to 3 business days prior to the event. No refunds are issued for cancellations occurring less than 3 business days before the start day. Course registration fees and cancellation policy are subject to change without notice.*

Disability Accommodations: *To request disability accommodations, please contact us at info@nwetc.org or (206) 762-1976 at least 30 days prior to the event.*

Northwest Environmental Training Center

A nonprofit 501(c)(3) program of the Environmental Outreach and Stewardship (EOS) Alliance
650 S. Orcas Street, Suite 220, Seattle, Washington 98108
Phone: (206)762-1976, Fax: (206)762-1979
www.nwetc.org



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NORTHWEST ENVIRONMENTAL TRAINING CENTER

650 S Orcas Street, Suite 220, Seattle, Washington 98108

Ph: (206)762-1976, Fax: (206)762-1979

www.nwetc.org

REGISTRATION FORM

Name: _____ Today's Date: _____

Agency/Organization: _____

Street Address: _____

Street Address (cont'd): _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____ Title: _____

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Payment Method: Check PO Credit Card (Visa MasterCard) Total: \$ _____

Credit Card or PO #: _____ Exp: _____

Notes: Please make checks payable to Northwest Environmental Training Center.

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