

# PGE's Educational Seminars - November 2009 Update -



Portland General Electric

Sign Up for FREE **Energy Efficiency & Renewables** Seminars

## NEXT 90 DAYS: ½ day Free Seminars & Workshops

**Monitoring Load Shape Workshop for Commercial Customers**  
**NEW: HVAC, Building Tune-Up & Commissioning**  
**Commercial (Freon) Refrigeration Systems**  
**Smart Investments in EE for MF Property Managers**  
**Industrial Fan Systems**  
**Industrial Pump Systems**

**Nov. 4, Wilsonville**  
**Nov. 5, Portland**  
**Nov. 10, Portland**  
**Nov. 12, Portland**  
**Nov. 18, Portland**  
**Nov. 19, Portland**

**Energy Champions Workshop**

**Dec. 1, Wilsonville**

**Basics of Electricity & Managing Energy Costs**

**Jan. 26, Salem / Jan. 28, Portland**

## Recent Improvements & Changes

### **BACK BY POPULAR DEMAND**

**Commercial (Freon) Refrigeration Systems:** Earlier this year, this class received a very high rating (4.51 out of possible 5.00) from attendees. The instructor, David Wylie, P.E., Vice President, ASW Engineering, has an engineering degree from Cal Poly San Luis Obispo as well as an MBA. He can explain sophisticated refrigeration system concepts in a way you can easily understand.

**Smart Investments in Energy Efficiency for Multifamily Property Managers:** Attendees at the April session rated this seminar as a 4.60 out of possible 5.00, so we scheduled another session for Nov. 12<sup>th</sup> for those who missed this seminar.

**SOLAR and SMART GRID Seminars are now scheduled for 2010 (see next page).**

## NEW INSTRUCTOR AND MATERIALS

**Industrial Fan Systems and Industrial Pump Systems:** Ronald G. Wroblewski, P.E., Productive Energy Solutions LLC from Wisconsin, is a highly rated trainer who applies proven principles of adult education to make his technical seminars beneficial and fun. He is the senior USDOE fan systems trainer and provides industrial energy efficiency training worldwide for the United Nations.

**Basics of Electricity & Managing Energy Costs:** 100% of the October 2009 session attendees recommend this class to others.

**Education Leads to Future Action:** 86% of attendees say they are more likely to initiate an energy efficiency or solar project as a result of having attended a seminar.

**Continuing Education Units (CEU) are available for all seminars and workshops.**

Download a seminar or course syllabus at [PortlandGeneral.com/Classes](http://PortlandGeneral.com/Classes)  
REGISTER an individual or group; send an email to [PGE.Seminars@pgn.com](mailto:PGE.Seminars@pgn.com)

# PGE Educational Seminars – November 2009 Update (continued)

## We are developing more new seminars – Coming Soon

### EE & Renewables in Commercial Leased Building Spaces

Learn about how energy efficiency and solar projects can be part of your organization operations in leased buildings and spaces. This is for lessees and their landlords.

**FREE to PGE Customers - 1/2 day seminars for those who plan ahead**

#### 2010:

*Monitoring Load Shape for Energy Savings  
Commercial (Freon) Refrigeration Systems  
Ammonia Refrigeration Systems  
Industrial Fan Systems  
Industrial Pump Systems  
Compressed Air Systems  
Smart Investment in EE for MF Property Managers  
Energy & Water Efficiency – Double Your Savings  
NEW: Solar Photovoltaic Systems  
NEW: Solar Thermal (hot water) Systems  
Chilled Water Systems  
Energy Champions Workshop  
NEW: EE & Renewables – A Smart Grid Perspective  
Lighting Retrofits  
High Bay Lighting  
New Trends in Lighting  
Outdoor Lighting  
Monitoring Load Shape for Energy Savings  
Energy & Water Efficiency – Double Your Savings  
EE & Renewables – A CFO Perspective  
Chilled Water Systems*

*Feb. 9, Salem / Feb. 11, Wilsonville  
Feb. 23, Wilsonville  
Feb. 24, Wilsonville  
Mar. 2, Wilsonville  
Mar. 3, Wilsonville  
Apr. 6, Wilsonville  
Apr. 13, Portland  
Apr. 22, Portland  
Apr. 29, Portland  
Apr. 29, Portland  
May 11, Portland  
May 25, Portland  
May 26, Portland  
Jun. 8, Salem / Jun. 9, Portland  
Jun. 10, Wilsonville  
Sep. 7, Salem / Sep. 8, Portland  
Sep. 9, Portland  
Sep. 15, Portland  
Sep. 21, TBA  
Sep. 28, Portland  
Sep. 29, Wilsonville*

### **Multi-Week courses open to everyone**

#### 2010:

*Power Distribution & Transformers, 7 Week Course, Cost \$495  
Motors & Motor Controls, 7 Week Course, Cost \$495*

*Apr. 7 – May 19, Tualatin  
Sep. 22 – Nov. 3, Tualatin*

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