

Energy Efficiency Alliance

The Energy Efficiency Alliance (EEA) is a collaboration between Pacific Power and local contractors, distributors and vendors. Advantages to participating include: improved business visibility, qualified business leads, incentive program training, marketing support and notifications of program updates. If you are not currently participating in the FinAnswer® Express program and are interested in joining the EEA, contact us today. Phone: 1-866-415-9800 E-mail: energy.expert@pacificorp.com Web: [Inquire online](#)

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Lighting Design Tips

An effective lighting design should look good, stay within budget, code and other constraints. It should also be environmentally responsible while responding to the architecture of the space. The challenge in re-lighting an existing space is how to achieve these requirements while producing the desired light levels that meet the customers' expectations.

The light level in a room is determined by the light fixtures, room design, reflectance's, colors and textures of the surfaces in the space. It is also affected by natural light. So how much light do we need? A good source for recommended light levels can be found from the Illuminating Engineering Society of North America (IESNA). Lighting experts reference the IES standards when determining appropriate light levels for any space they are designing. As an example:

recommended light levels for a typical office space are 30-50 Foot Candles (FC) maintained. This is important to understand that the light level available when the system is new is brighter than when the system "ages". The industry practice is to design the lighting system with this in mind; it is commonly referred to as light loss factor.

Once desired light levels are established it is time to choose the appropriate fixtures. Manufacturers have quantifiable information on specification sheets for each fixture that typically comes from an independent test lab. This provides the designer the data required to calculate light levels. Lighting software programs are readily available online and are an excellent method for determining proper light levels, fixture spacing and

quantity. As an owner, lighting is important, so request this valuable service from your lighting expert. As a lighting professional, educate customers on the importance of quality lighting. So to stay out of the dark and get the light you need, take these extra steps for each space.

For more information on lighting design please visit the following links:

- <http://www.lightingdesignlab.com/index.html>
- <http://www.lrc.rpi.edu/>
- <http://www.eere.energy.gov/>
- <http://www.iesna.org/index.cfm>
- <http://www.cee1.org>



Lighting Retrofit Projects - Frequently Asked Questions

Q: What are the requirements for cost documentation?

A: The project file must include legitimate invoices (not just a statement of costs) that reflect the following:

- Cost to the end customer for all project material and labor costs.
- The contractor / supplier company name, address, and contact information.
- Date the invoice was issued.

Q: What are the cost documentation requirements for projects completed by customers?

A: This should include the date, time of employee, hours worked on the project, and fully loaded hourly rate. In addition, an invoice from the supplier for all materials associated with the project is required.

Q: What if all material and labor costs are included in one lump sum of a bid?

A: If a contractor includes all costs in a single bid, include a note on the invoice to identify the portion that is material costs and the portion that is labor costs.

Program Changes Effective 11/20/2010

The modifications to the Pacific Power FinAnswer® Express program have been approved and are effective as of November 20, 2010. This will align the FinAnswer® Express program qualifications with changes to federal efficiency standards and the 2009 Washington State Energy Code (WSEC), as well as add a new "Part-Load" cooling efficiency metric for commercial HVAC equipment. Please review the following summary of changes made to the FinAnswer® Express program in Washington.

Changes for Lighting Measures:

- Reduced the incentive for 8 or more lamp T5 high output fixtures installed in new construction/major renovation projects.
- Added Advanced/Integrated Daylighting Controls for both retrofit and new construction/major renovation projects.
- Added a sunset date of January 1, 2011 for all lighting controls (except Advanced/Integrated Daylighting Controls) installed in new construction/major renovation projects since these controls are required by the 2009 WSEC.

Changes for Motor Measures:

- Added a sunset date of **December 19, 2010** for incentives of premium efficiency motors in both retrofit and new construction/major renovation projects since many AC induction motors will be required to meet the NEMA Premium efficiency standards by the 2007 Energy Independence and Security Act.
- **No incentives will be available for Premium Efficiency Motors of any size purchased on or after December 19, 2010.**

- Added a sunset date of January 1, 2011 for incentives for Electronically Commutated Motors (ECM) installed in new construction and major renovation projects because ECMs are required by the 2009 WSEC.
- Increased the maximum size for eligible Green Motor Rewind motors from 500 to 5,000 horsepower.

Changes for Other Measures:

- Modified the minimum efficiency requirement for vertical solid door refrigerators and freezers to align with ENERGY STAR® requirements. The cubic volume tiers were expanded from three to four to align with the ENERGY STAR® categories and added an incentive for the new tier.

Important Additional News

- For FinAnswer® Express lighting retrofit projects and all custom incentives, the applicable eligibility criteria and incentives are determined by the date on the first page of the valid incentive agreement.
- For FinAnswer® Express new construction/major renovation lighting projects, equipment purchased and installed before the approved effective date of November 20, 2010 will be subject to the previous FinAnswer® Express eligibility criteria and incentives. Equipment purchased and installed on or after the approved effective date of November 20, 2010 will be subject to the new eligibility criteria and incentives. The applicable program will be determined by the date on the second page of the signed

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incentive application, unless invoices are provided.

- For FinAnswer® Express non-lighting retrofit measures, equipment purchased and installed before the approved effective date of November 20, 2010 will be subject to the previous FinAnswer® Express eligibility criteria and incentives. Equipment purchased and installed on or after the approved effective date of November 20, 2010 will be subject to the new eligibility criteria and incentives. The applicable program will be determined by the invoice date.

The FinAnswer® Express program website has a [notice](#) with complete details on the changes. If you have questions, please contact your Energy Efficiency Alliance coordinator listed on page 3.

Incentive tables and catalogs on the website reflect the new program.

Tip of the Month

Be sure to check the Pacific Power website for the most current incentive levels and eligibility requirements. Contact your EEA Coordinator for the most up-to-date information.

Note: The Washington State Energy Code is changing January 1, 2011. Please contact your EEA coordinator for more information.

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Upcoming Trainings

Energy Efficiency Alliance Program Update Lighting and Technical Training

February 15, 2011

Marcus Whitman Hotel - Breakfast Meeting
Walla Walla, WA

Non-Lighting and Technical Training

February 15, 2011

Marcus Whitman Hotel - Lunch Meeting
Walla Walla, WA

Energy Efficiency Alliance Program Update Lighting and Technical Training

February 16, 2011

Hilton Garden Inn - Breakfast Meeting
Yakima, WA

Non-Lighting and Technical Training

February 16, 2011

Hilton Garden Inn - Lunch Meeting
Yakima, WA



Contact Information

Program Contacts for EEA Participants:

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