

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.

Tip of the Month

The Calgreen Code will become effective on January 1, 2011. The new code is part of the Building Standards Code and is very similar to LEED. The FinAnswer Express program in California will not be affected by the Calgreen code changes. For more information on the Calgreen code and how it may affect your business please visit: <http://www.bsc.ca.gov/CALGreen/default.htm>

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Technology Tip - Motors

Incentives are no longer available from Pacific Power for NEMA Premium Efficiency Motors as of December 19, 2010. A provision of the Energy Independence and Security Act (EISA) of 2007 mandates a higher motor efficiency standard that becomes effective on this date. EISA states that all motors (1-200 HP) manufactured for sale within the U.S.

on or after that date shall meet the nominal full load efficiency defined in [NEMA MG-1 \(2006\) Table 12-12](#). This change will make equipment more energy efficient and customers can expect lower electric bills and longer motor life with the premium motors; however up-front costs for may be higher. Although incentives for NEMA Premium motors will

be discontinued, a motor rewind performed at a qualifying service center in accordance with Green Motor Rewind guidelines will qualify as a GREEN REWIND and may be eligible for an incentive. Green Motor Rewind incentives are not affected by the changes in NEMA efficiency standards. See the [Wattsmart](#) web page for more details.

Upcoming Trainings

**Energy Efficiency Alliance Program Update
Lighting and Non-Lighting Technology Training**
June 8, 2011
Lighthouse Inn
Crescent City, CA

June 9, 2011
Holiday Inn Express
Yreka, CA

Save the Date!



Contact Information

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