

## Energy Efficiency Alliance

The Energy Efficiency Alliance (EEA) is a collaboration between Rocky Mountain 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](mailto: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.cce1.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.

## 2011 Planned Program Changes

Changes to the Rocky Mountain Power FinAnswer® Express program have been filed with the Wyoming Public Service Commission. Below is a highlighted summary of changes proposed for the FinAnswer® Express program in Wyoming. For complete information on the FinAnswer® Express program changes, please refer to the tariff filing or contact your EEA coordinator listed below. **Note that the proposed changes have not been approved yet.**

### *Proposed Changes to Lighting Measures:*

#### **New Construction/Major Renovation Highlights**

Wyoming's new construction/major renovation lighting incentives will be restructured to increase flexibility, promote lighting design, and encourage the installation of market-ready technologies. The new incentive structure for interior lighting is a pay for savings approach based on the IECC energy code baseline for interior lighting and controls. A summary of the highlighted changes can be seen below.

- The total lighting power density (LPD) for interior lighting projects must be more than 10% below the IECC 2003 LPD requirement.
- New prescriptive measures have been added for exterior lighting and controls.

#### **Retrofit Highlights**

Wyoming's retrofit lighting incentives have also been restructured to accommodate the enormous growth in potential fixture combinations. To address this complexity, incentives will only be based on the installed fixture, regardless of the existing fixture. Energy savings will continue to be based on the existing and proposed fixture combination and quantities. A summary of the

highlighted changes can be seen below.

- The energy efficiency project cost cap will increase from 50% to 70%.
- Incentives will be provided on a per lamp basis instead of a per fixture basis.
- Eligibility requirements for premium efficiency T8 fluorescents will be modified to match qualifying requirements of Consortium of Energy Efficiency (CEE).
- Eligibility requirements for High Bay T8s will be modified to match CEE high-performance lamp requirements.
- **Incentives for standard T8 fluorescent lamps will no longer be available effective July 14, 2012.**
- Delamping incentives will be modified so that **only** premium efficiency lamps and ballasts are eligible; Standard T8 fluorescent lamps will not be eligible for delamping incentives.
- Screw-in Compact Fluorescent Lamps (CFL) incentives will no longer be available effective **January 1, 2014.**
- CFL measures will be consolidated into one screw-in measure and one hard-wired measure.
- Timeclock incentives will be discontinued.
- Control measures will be added for daylighting control and advanced daylighting control.
- An additional incentive for dimming ballasts that are installed and controlled by qualifying occupancy or daylighting control will be added.
- Prescriptive incentives for Light Emitting Diode (LED), induction, and cold cathode measures will be added.

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### *Proposed Changes to HVAC Measures:*

- The incentive structure has been modified to a tiered system that is consistent with federal efficiency standards and other FinAnswer® Express programs. The existing \$50/ton incentive will be removed for some equipment and higher efficiency tiers will be added for air conditioning and heat pump equipment with incentives levels of \$75 and \$100/ton.\*
- The new Integrated Energy Ratio (IEER) metric will be added to the air conditioning equipment minimum efficiency requirements. This metric is an alternative to the current Integrated Part-Load Value (IPLV) values used to determine equipment eligibility for some air conditioners and heat pumps.\*
- Several new measure categories will be added including: Indirect-Direct Evaporative Cooling (IDEC), room air conditioners, programmable thermostats, and ground source heat pumps / loops.\*

### *Proposed Changes to Motor Measures:*

- **Incentives for premium efficiency motors will no longer be available effective December 19, 2010.** Many AC induction motors will be required to meet NEMA premium efficiency standards by the 2007 Energy Independence and Security Act.
- A green motor rewind option will be added, which includes

## 2011 Planned Program Changes

incentives for customers and motor service centers.

- A leading proponent of green motor rewinds is Green Motors Practices Group™ and additional information including a roster of approved motor service centers can be found at: [www.greenmotors.org](http://www.greenmotors.org).

### *Proposed Changes to Envelope Measures:*

- A new measure will be added for reflective window film.
- The insulation and window measures will be modified to provide a distinction between retrofit and new construction/major renovation projects.

### *Proposed Changes to Food Service Measures:*

- Eligibility requirements will be modified for refrigerated vending machine occupancy sensors and solid door refrigerators and freezers.\*
- Incentives for refrigerated vending machines will not be available after August 31, 2012 because they will be required to meet federal efficiency standards.
- New measures will be added for: commercial dishwashers, electric insulated holding cabinet, electric steam cooker, electric convection oven, electric combination oven, electric commercial fryer, air cooled ice machines, residential dishwasher, residential refrigerator, LED case lighting.

### *Proposed Changes to Irrigation Measures:*

- Eligibility requirements will be modified to simplify the process and increase participation.

- Existing measures will be updated and new measure categories will be added.

### *Proposed Changes to Other Measures:*

- A new measure will be added for network PC power management software.

### *Proposed Additions to the Appliances Category:*

- New measures will be added for the following: residential clothes washer, residential electric water heater, and commercial clothes washer.

### *Proposed Additions to Compressed Air Measure Category (for systems < 75 hp):*

- New measures will be added for the following: low pressure-drop filters, receiver capacity additions, refrigerated cycling dryers, VFD controlled compressors, zero loss condensate drains, and outside air intake.

### *Proposed Additions to Agricultural (Farm/Dairy) Category:*

- New measures will be added for the following: automatic milker takeoffs, agricultural engine block heater timers, circulating fans, heat reclaimers, high efficiency livestock waterers, high efficiency ventilations systems, milk pre-coolers, programmable ventilation controllers, and VFDs for dairy vacuum pumps.

*\* This program change is time sensitive and Rocky Mountain Power is seeking an effective date of January 1, 2011 for this change.*

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## Tip of the Month

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

# FinAnswer Express News

## WYOMING



Season's Greetings 2010

## Upcoming Trainings

### Rocky Mountain Power Program Changes, Review - Lighting and Controls Technical Training - 4/hr CEU

May 10, 2011

Holiday Inn  
Riverton, WY

May 11, 2011

Outlaw Inn  
Rock Springs, WY

May 12, 2011

Hilton Garden Inn  
Laramie, WY

May 13, 2011

Casper Petroleum Club  
Casper, WY

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**Save the Date!**

## Contact Information

### Program Contacts for EEA Participants:

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**All Others:** Barry Pomeroy (801) 639-5610

**Web:** [www.rockymountainpower.net/wattsmart](http://www.rockymountainpower.net/wattsmart)

### Program Contacts for Customers:

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