



New York Energy SmartSM Small Commercial Lighting Program

The Right LightSM

Better Lighting. Better Business.

November 2008

Newsletter Number 78

NYSERDA

New York State
Energy Research and
Development Authority



Reminder:

**The 4th Quarter
2008 Installation
Competition
began October 1,
2008 and runs to
December 31,
2008. Good luck
to our Ally
Contractors and
Distributors!**



To: SCLP Ally

Program News Highlights

* **The Shape of Things to Come.** Our SCLP Program Participants are very loyal. Since SCLP's inception, nearly 9 million square feet of effective, energy-efficient lighting projects have been designed and installed, saving electricity equivalent to nearly 10,000 New York State households. You've given us feedback, telling us what you like about the Program and what you feel should be changed. We *have* listened to you, and are planning great new changes to the Program. Here are a few highlights of what you can expect to see in 2009:

- The "Small" in SCLP is being eliminated, and we will transition to the **New York Energy SmartSM Commercial Lighting Program (CLP)**. While we will continue to seek lighting projects that are designed and installed for small commercial enterprises, we are now broadening our focus to capture more of the market for lighting upgrades, renovations, and new construction.
- We plan to raise the square foot cap beyond 25,000 square feet on qualifying projects. This will allow larger commercial spaces to be part of the Program, such as large commercial office buildings, retail spaces, hospitals, and educational facilities.
- Incentive offerings will be sweetened. We will offer incentive bonuses for projects that are significantly below the lighting power allowances of the Energy Conservation Construction Code of New York State. And for the first time, we will be offering incentive bonuses for projects that incorporate specific lighting technologies and controls.
- We will have a new special place in the Program for Energy Service Companies (ESCOs), with a new Ally ESCO category.

We can't go into more detail now, because many of these changes are still under development. But with the final expiration of PON 809, a new PON will be released, along with a new CLP Users' Guide, new Participation Agreements, and new incentive forms. Keep reading this newsletter for more details as we can make them available.

Allies in Action

* **Extra – Read All About It!** Last year, Mechanicville Ally Contractor **P. J. Baker Electric's** Kim Baker began reviewing the large Albany-based **Times Union** newspaper facility for potential lighting upgrades. Kim's discussions with Times Union Facilities Superintendent Ray Riccardi revealed several areas requiring attention. Kim enlisted the aid of Albany Ally Manufacturers' Representative **Quality Lighting's** Bruce Balderston for lighting design and product recommendations. This summer, Times Union focused efforts on the paper storage area, replacing 52 250-watt metal halide highbay fixtures with 30 4-lamp T8 fluorescent highbays. Fixture mounted occupancy sensors turn off lamps when enormous stacks of newsprint rolls block the lights from view. When factoring in the occupancy sensor energy reduction, the new lighting layout provides similar light levels at one-quarter of the old energy use. In addition to the significant energy savings, Times Union received incentives under the Enhanced Commercial Industrial Performance Program – Tier 1. Baker Electric also received a **\$1,000 SCLP Qualifying Project Incentive** for this 16,380 square foot project. And that's the news!

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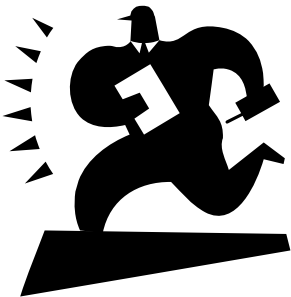
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We're on the Web!
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**SCLP Helps You
Bring Your Clients
and Customers
The Right
LightSM
Effective, Energy-
Efficient Lighting.**

**Better Lighting.
Better Business.**

**Please pass this
newsletter along to
your colleagues or
customers who
might find the
contents valuable.**



Technical Tip: EPA^T Tax Deductions for Warehouses

Our October 2008 Special Edition Newsletter announced the extension of the EPA^T 2005 Building Tax Deduction through December 31, 2013. With properly designed lighting projects, your customers may be eligible to receive the deduction (up to \$0.60 per square foot), will save money on their utility bills, and can receive financial incentives from **New York Energy SmartSM** programs to help buy down the project cost. As an SCLP Ally, you can also receive financial incentives for lighting designs that meet Program criteria

Warehouses have a specific set of conditions that must be met for the tax deduction. The bullets below provide a partial list of the criteria, and describe how they relate to SCLP:

- **Lighting power density (LPD)** in Watts per square foot (W/sf) must be 50% of that specified in ASHRAE/IES Standard 90.1-2001 (ASHRAE 90.1-2001). Under the whole building method for computation, the maximum LPD allowed to receive the deduction is 0.60W/sf. With the space-by-space method (where the warehouse space is calculated without any other space types), 0.80W/sf is the maximum for fine material storage, and 0.55W/sf is the maximum for medium or bulky storage. These LPDs are lower than the SCLP requirement (10% below the 2007 Energy Conservation and Construction Code of New York State – 2007 ECCCNY).
- **Light levels** also must meet IES recommendations. Scrimping on lighting watts resulting in under-lit spaces *is not* a short-cut to the tax deduction. “Working spaces where simple visual tasks are performed,” such as pallet storage or large container warehouses, only require about ten footcandles. However, if the tasks are more complex, such as in produce warehouses or where small parts are stored, higher light levels are allowed. The light level criteria for SCLP are the same as for the EPA^T Tax Deduction.
- **Controls** requirements listed in ASHRAE 90.1-2001 must also be met. One key provision requires automatic lighting shutoff requirements in buildings larger than 5,000 square feet. Another requires devices to independently control the general lighting within the space (“space” is defined as an area enclosed by ceiling height partitions). Space controls can be activated manually or automatically by a sensing device, but must be readily accessible and located so the occupant can see the device.
- **Bi-level switching**, while not included in ASHRAE 90.1-2001, is required for the tax deduction in all buildings except hotel and motel guest rooms, storage rooms, rest rooms and public lobbies, so this would apply to warehouses. Most bi-level switching approaches split the lighting in a space into two circuits that can be separately controlled. As an alternative, bi-level or continuous dimming can be employed, ideal for applications where switching or separately circuiting is not practical. Other approaches include bi-level switching of alternate ballasts, alternate fixtures, or alternate circuits; switches controlled by photosensors; manual switches controllable by occupants; manual switches controllable by the facility operator; and scheduled switching based on time or day or other factor.

SCLP encourages the installation of lighting control devices.

With today's improved lighting technologies, including Pulse-Start metal halide, T5HO and High Performance T8 industrial highbay fixtures, proper light levels *can* be achieved within the allowable LPDs. Note that financial incentives for fluorescent highbay fixtures are available to the end user for certain applications. While the controls requirements may be a challenge in existing facilities, bi-level, step-dimming, and continuous-dimming ballasts, combined with photosensors and occupancy sensors, can meet the challenge.

End users should consult with their tax advisors to determine their eligibility for any tax deduction. And remember, your SCLP Account Manager is there to help you meet your customer's requirements for **The Right LightSM**.