



# New York Energy Smart<sup>SM</sup> Small Commercial Lighting Program

*The Right Light<sup>SM</sup>*

**Better Lighting. Better Business.**

April / May 2008

Newsletter Number 73

**NYSERDA**

New York State  
Energy Research and  
Development Authority



## To: SCLP Ally

### SCLP Extended Through June 30, 2008

The **New York Energy Smart<sup>SM</sup>** Small Commercial Lighting Program has been extended by NYSERDA through June 30, 2008.

- PON 809, which defines SCLP incentives, is extended from April 1, 2008 to June 30, 2008, or until incentives are totally committed on a first come, first served basis.
- Projects completed in 2008 are eligible for incentives, including those completed after March 30, the original end date of the PON. There is approximately \$30,000 remaining in the incentives pool.
- Ally Participation Agreements executed between January 1, 2005 and March 30, 2008 are effective until June 30, 2008, at which time they will expire.

Program Opportunity Notice (PON) 809 is the authorizing document for the slate of SCLP incentives, and defines how SCLP Allies participate.

### Program News Highlights

✳ **Congratulations to the Winners of the SCLP Installation Competition!** We are pleased to announce the winners of the **1st Quarter 2008 Installation Competition**.

In the **Small Contractor** category, an award of **\$1,000** will be made to **Eastern Energy Solutions** of Afton, with eight projects. The company will receive an additional **\$1,000 award** for having the highest square footage in the quarter, at 58,994 ft<sup>2</sup>.

In the **Small Distributor** category, we have a tie. Awards of **\$1,000** will be made both to **Wolberg Electrical Supply** of Albany and **Andersen Electrical Supply** of Niagara Falls, each with eight completed projects.

✳ **Other New York Energy Smart<sup>SM</sup> Incentive Programs Extended.** The Enhanced Commercial Industrial Performance Program (ECIPP -- PON 1101) and the Peak-Load Reduction Prescriptive Lighting Program (PLP -- PON 1097) have both been extended through June 30, 2008.

### Allies in Action

✳ **The Right Light<sup>SM</sup> for Auto Repair.** Last Fall, Buffalo **Ally Distributor Shanor Electric's Larry Federici** began designing a lighting upgrade for the 12,683 square foot **Schmidt's Collision and Glass** auto repair shop in Amherst. With bodywork tasks requiring high light levels and good color rendering, he developed **The Right Light<sup>SM</sup>** solution using High Performance T8 systems and SCLP design techniques. Working with Syracuse **Ally Representative Monarch Sales**, readily available Crescent Lighting fixtures were selected. These were coupled with low (.78) ballast factor ballasts and high (3100) lumen, long life (24,000 hour) lamps with 85 CRI. The layout used a combination of eight-foot four-lamp and four-foot two-lamp HPT8 industrial fixtures. The result: 60 foot-candles were provided using 15% less energy than standard T8 fixtures. Improved color rendering lamps insure better-looking repairs for Schmidt's customers. The nominal material cost increase was offset with reduced energy and maintenance costs, as well as the **New York Energy Smart<sup>SM</sup>** Peak Load Reduction Prescriptive Lighting Program incentive of \$25 per fixture. Schmidt's received **The Right Light<sup>SM</sup>** solution, and Shanor collected the **\$750 Qualifying Project Incentive**. You can't ding them for that!



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**SCLP Helps You  
Bring Your Clients  
and Customers  
The Right  
Light<sup>SM</sup>  
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: “Top Model” Slim Fluorescents Pile on the Energy Savings

*Note to our Allies: our lead article in February's Newsletter described the newly revised and more stringent 2007 Energy Conservation Construction Code of New York State (ECCCNYS), released in December 2007. As a service to our SCLP Allies, this is the third of three Technical Tips addressing the types of lighting technologies and controls that can be employed to achieve compliance with the new lighting power allowances.*

The fashion industry seems to favor the slim and sleek. That's one thing that it has in common with the lighting industry. Fluorescent lamps have evolved from a “fat” T12 (12/8 of an inch) to T8 (only one inch in diameter), and now we are flirting with T5 lamps at a mere 5/8 inch.

T8 lamps offer a simple energy-efficient replacement for T12 systems when replacing lamps and ballasts. Typically T8s use the same fixture bodies – both for new fixtures and for lamp/ballast retrofits. T5 lamps, on the other hand, almost always require new fixtures since the lamps are manufactured in metric lengths, differing from their US nominal 2ft and 4ft counterparts.

What's driving this change? Architects and lighting designers are developing a preference for this narrow design because it allows for the use of thinner fixtures. Lighting practitioners have embraced the products because of their potential for energy savings and their ability to help meet energy codes.

And of course, there is a catch. The energy savings from T5 systems is not as simple as one-to-one replacement of T12 or T8 systems. Lighting practitioners must look closely at other key elements of lighting design, such as system efficacy (mean lumens per Watt, including ballast wattage and ballast factor) and fixture efficiency.

An advantage of T5 systems over other types of fluorescent lighting is that the fixture design in some recessed and many indirect/direct suspended systems allows for a greater distance between luminaires while still providing uniform lighting. The benefit: fewer luminaires in the space will reduce installation and operating costs, even if the wattages per fixture are comparable.

T5 lamps are available in a high-output version, and are labeled T5HO. This lamp, ballast, and fixture combination can often be used as a one-to-one fixture replacement for HID highbays. The advantage: T5HO linear fluorescent fixtures offer the potential for a significant reduction in wattage compared to HID due to increased fixture efficiency. An important factor to consider, however, is the ambient temperature of the T5HO application. T5HO systems are designed to work at higher temperatures, and lumen output will decrease as the ambient temperature drops.

SCLP's **Industrial Lighting Solutions** Demonstration Project Case Study describes a T5HO warehouse application, and is available for download from our web site or through your Account Manager.

The next time you are ready to recommend T5 systems, be sure to evaluate all the components, including system efficacy, fixture efficiency, spacing criteria, and ambient temperature. Choosing the appropriate “model” for your project will result in a long term relationship, providing **The Right Light<sup>SM</sup>** for your customer.