

Energy Efficiency & Customer Research & Development presents...

Customer Advanced Technologies Program Newsletter

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From the Editor's Desk

What's new for 2004? Plenty! Glad you asked.

This year, the primary focus of the Customer Advanced Technologies program will be to identify, test and evaluate technologies that will help our customers deal with the tough new Title 24 energy standards that will go into effect in October of 2005.

SMUD has been working with Lawrence Berkeley National Labs, the California Energy Commission and Lithonia Lighting to develop a cutting

edge lighting system for residential kitchens. These new compact fluorescent downlights for kitchens use one quarter of the energy of incandescent downlights, significantly reduce the cost of typical compact fluorescent downlight systems, and offer lighting quality that is as good or better than recessed incandescent lighting systems. To learn more, be sure to sign up for the upcoming technology workshop "**Energy Efficient Downlights for California Kitchens**" on March 4!



Customer Spotlight: Interpress Technologies *Scale Prevention for Evaporative Coolers*

Background

Interpress Technologies, a manufacturer of printed cartons for butter, raisins, cups of soup, and other food products has a well-deserved reputation for being energy efficient and progressive. Its 50,000 square foot facility features high efficiency lighting systems and is cooled by indirect/direct evaporative cooling systems.

Unfortunately, these cooling systems have experienced significant problems with scale build-up and require extensive annual cleaning. Interpress decided to install and test FRE-FLO™ catalytic water conditioners on nine of its cooling units. An independent water treatment company, BWI Solutions Inc., was hired to test, monitor and evaluate the performance of the device.



Results

The FRE-FLO™ reduced scale formation by 29 percent and blow-down by 69 percent!

To download the full technology evaluation report, please visit the Customer Advanced Technologies Web page at www.smud.org/education/cat/index.html

Feedback

As our customer, your feedback is important to us. If you have any suggestions for technologies that you'd like to see evaluated, general questions or comments, please send them to dbisbee@smud.org. Thanks!

Upcoming Events

"Energy Efficient Downlights for California Kitchens"
March 4, 2004. Hosted by SMUD's Energy & Technology Center. To register, please call (916) 732-6738 or send an email to etcmil@smud.org.

Current Research Projects

- High efficiency kitchen lighting systems (residential)
- Electrical Harmonizer (Legend Power Systems)
- FREUS (residential air conditioning)
- HYPAK (commercial air conditioning)
- Solar-powered LED lighting
- Insulated concrete form (ICF) construction