



# Lighting Research Program



## Program Information

April 24, 2003

# What Is the Lighting Research Program?



## *THE LRP IS...*

- a two-year \$5.2 million R&D program focused on developing and introducing new energy-efficient lighting technologies into the marketplace.
- a set of diverse projects that includes 15 technical and three market connection projects.
- a unique program sponsored by the California Energy Commission, which engages numerous researchers and manufacturers, and is managed by Architectural Energy Corporation.

# What Is the Value of the LRP?



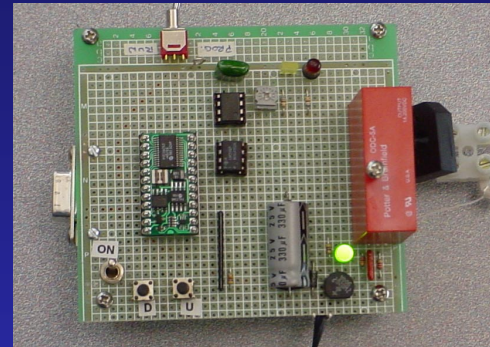
***For California citizens, the LRP provides the opportunity to:***

- reduce peak electricity demand and energy use.
- integrate research with market connection activities.
- leverage expertise and co-funding from lighting manufacturers.
- minimize pollution throughout California.

# Technology Elements of the LRP



**LUMINAIRES  
& SYSTEMS**



**DEMAND  
RESPONSE**

**ADVANCED  
TECHNOLOGIES**



**TESTS &  
STANDARDS**





# Why Fund a Lighting R&D Program?

## ***LOTS OF REASONS...***

- ✓ To address the widespread use of inefficient lighting sources in residential and commercial applications.
- ✓ To focus attention on the successful application and impact of energy-efficient lighting.
- ✓ To encourage coordination and collaboration among researchers and manufacturers.
- ✓ To provide a forum to develop and evaluate technology opportunities.





# Various LRP Product Examples

- ➔ LED Display, Cabinet, and Task Lighting
- ➔ Integrated High-Efficiency Classroom Lighting Systems
- ➔ Hotel Bathroom Nightlight with Occupancy Sensor
- ➔ Retrofit Fluorescent Dimming with Integrated Controls
- ➔ Bi-Level Stairwell Fixture with Occupancy Sensor
- ➔ Energy Star Residential Portable Light Fixtures
- ➔ Retrofit Kitchen Energy Efficient Downlights
- ➔ DALI Lighting Control Device Standards

PIER LIGHTING RESEARCH PROGRAM  
HELPING CREATE NEW LIGHTING  
TECHNOLOGIES AND PRODUCTS



# Getting LRP Products to Market

## *Program-Wide Market Connection Effort*

- Specialized consultants
- Technical assistance
- Coordinated activities

- Product Economics and Value
- Product Business Plans
- Alliances with Trade Groups
- Information Materials
- Presentations/Papers
- Manufacturer Involvement
- Demonstration Projects
- Codes & Standards
- Tools for Product Specification