

# The California Advanced Lighting Controls Training Program

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## CALCTP

**TRAINING ELECTRICIANS AND CONTRACTORS  
ON ADVANCED LIGHTING AND CONTROLS**



# CALCTP Founding Members



- California Lighting Technology Center, U.C. Davis
- Southern California Edison
- IBEW
- NECA (National Electrical Contractors Association)



# A Collaborative Effort



- CLTC / CEC
- SCE
- IBEW
- NECA
- PG&E
- SDG&E
- SMUD
- CA Community Colleges
- Manufacturers



# California Advanced Lighting Control Training Program (CALCTP) Mission

- Established to provide support to help sell, select, design, and install lighting systems for new and existing commercial, industrial and institutional facilities that are:
  - Energy-efficient & cost effective.
  - Installed and function correctly.
  - Improve the quality of the lighting for commercial facilities.
- This program increases business activity for contractors and creates jobs for skilled electricians



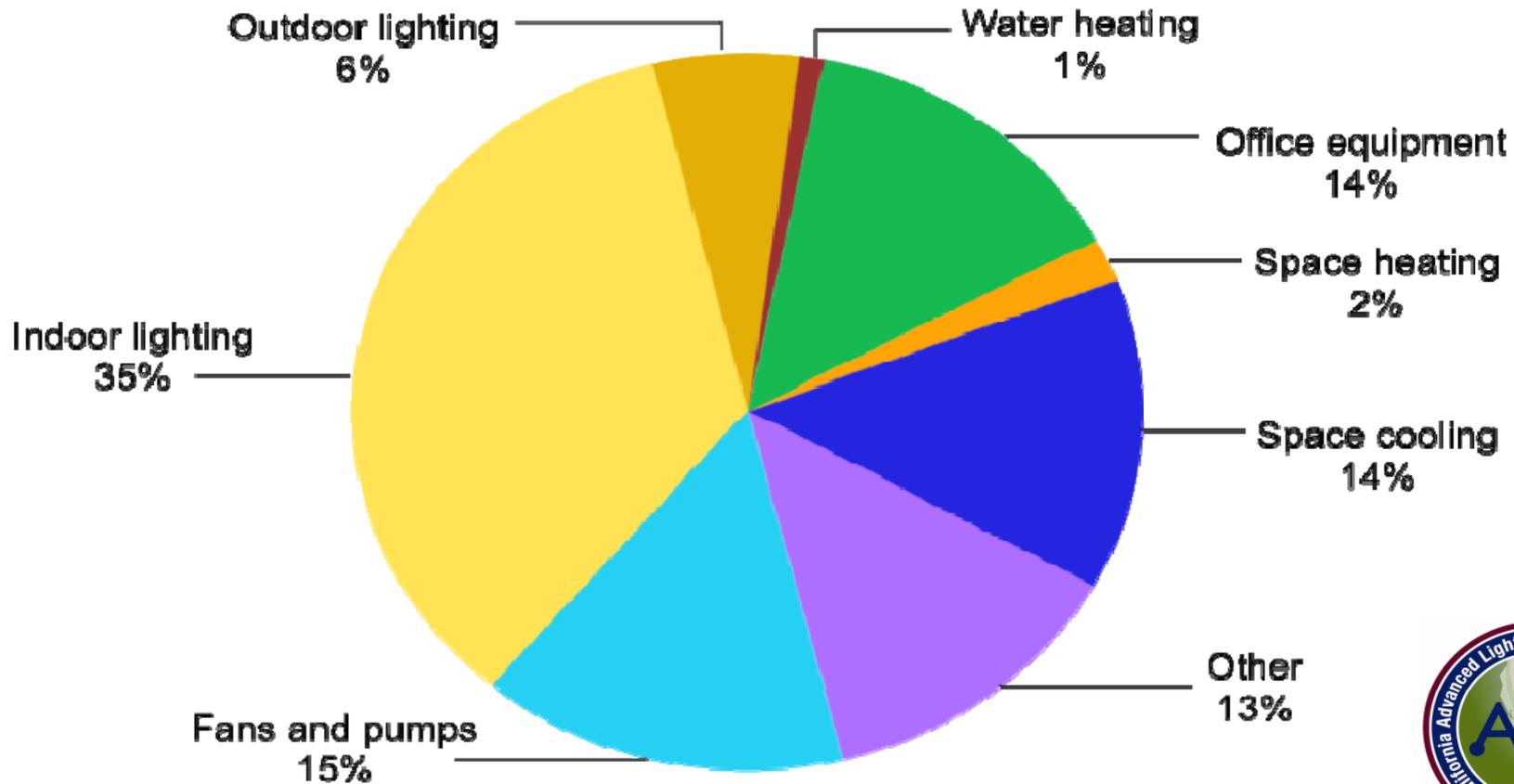
# Enormous Opportunity To Save Energy By Retrofitting

- Approximately 8 Billion square feet of existing indoor non-residential facility space in California
- Millions of square feet of outdoor lighted space
- Lamp efficiency is improving
- Controls are the biggest opportunity to save energy
- Vast majority of space, indoor and outdoor have no controls
- **Retrofitting is the Key**



# Lighting: About 40% of Existing Facility Electrical Energy

**Electrical Energy Costs in Non-residential Buildings**





# CALCTP Recognized for Job Creation by DoL Grant, and CEC/ETP Funds



- DoL Grant: \$5 Million/ 2 Years
- Funded Grant Partners:
  - CA LMCC/IBEW-NECA
  - ICF International
  - Community College Chancellors Office: Advanced Transportation Technology and Energy (ATTE) campuses
  - California Lighting Technology Center, UC Davis
  - Pacific Gas and Electric
  - Southern California Edison
  - San Diego Gas and Electric
  - Sacramento Municipal Utilities District



# Statewide Partnership Reflected in CALCTP Training Coverage

- Training held at 6 California Community College Advanced Transportation Technology (ATTE) Campuses
- Also at 21 California Electrical Training Centers (IBEW-NECA JATC's)
- Supported by 9 California WIB Partners
- Open to all non-union and union state certified general electricians



# CALCTP DoL /CEC/ETP

## Goals & Objectives

- Train 2292 Unemployed and Under-Employed Electricians
  - 2100 IBEW Electricians.
  - 192 CCC Trained Electricians.
- Train 50 Instructors
  - 38 JATC Instructors.
  - 12 CCC Instructors
- Provide 66 Lab Boards
  - 42 Lab Boards to JATCs
  - 24 Lab Boards to CCCs
- Create Website for CALCTP-Certified Contractors and Electricians (Up and Running) [www.calctp.org](http://www.calctp.org)



# DoL/CEC/ETP Training Implementation

- 200 Electricians Already Trained and Certified
- Fall, 2010: 800 Enrolled
- Spring, 2011: 500 Estimated by June
- Additional 800 Estimated by December, 2011
- Total 2300



# CALCTP Business Development Seminars

- For Electrical Contractors (The Employers)
- Business training fees paid by contractors
- Job Creation Via Business Development
- New Construction is way down; Retrofitting is the big countercyclical opportunity for Contractors
- Full Day Class
  - Marketing
  - Sales
  - PR
  - Project Development
  - Finance
- One Element in Utility Recognized CALCTP Contractor and Project Certification (Incentives May Apply)



# Strong Participation Drivers for Program Success

- 20 – 30% unemployment for CA Electricians; many more are underemployed. Electricians want and need advanced training and certification to gain employment
- Training is PAID FOR by CEC/ETP and DoL Grant Funds
- New lighting control jobs are driven by existing market demands:
  - Environmental concerns and regulation
  - Need to manage peak demand, and reduce lighting costs
  - Ability to deploy advanced lighting controls is limited mostly by a shortage of trained personnel. CALCTP Fills that Gap.
- IOU Utilities and SMUD are planning to drive market with additional, new incentives for lighting controls – especially retrofits – that require contractors and electricians to be CALCTP certified.

