Collective agreement to establish California Lighting Technology Center, 1999-2003

- Market research (situation analysis)
- Partnerships
- Research and development proposals
Lighting Center Established at UC Davis 2003

1. R&D lighting technologies
2. Demonstrations
3. Outreach (training, education, codes)
Process road map

1. Establish shared vision
   • Needs assessment
   • Partnerships
   • funding

2. Identify strategic opportunities
   • Skills and capabilities
   • Partnerships
   • Addressing needs

3. Establish team, structure, and leadership

4. Identify partnerships
   • Market connections
   • Demonstrations
   • Commercialization

5. Build infrastructure

6. Do projects
Mission objectives

1. Support technological innovation
2. Support business opportunities
3. Advance education and training
Research & Development

1. Always with industry partners
2. Aiming at commercial products
3. Looking for low hanging fruit
4. Matching technologies to applications
5. Integrating technologies into systems
New partnership approach
### Founding Organizations

- UC Davis (University of California)
- Peer
- NEMA

### Manufacturers

- 3M
- Acuity Brands
- A Advance
- AECOM
- Cree Lighting
- Lumileds
- Osram
- Axiom
- DDP
- BKTek
- Chevron
- Encelium
- Eskaton
- IREC
- National Semiconductor
- Pacific Gas and Electric Company
- Southern California Edison
- SDG
e - Sempra Energy Utility
- SMUD - Sacramento Municipal Utility District

### Large End Users

- Department of General Services
- California State University, The California State University
- LA County
- National Park Service
- Forest Service
- Walmart

### CA Utilities

- PG
e
- Southern California Edison
- SDG
e - Sempra Energy Utility
- SMUD - Sacramento Municipal Utility District
Simplified Daylight harvesting
50% better than code

• R&D
• Industry partners
• 3 large demo’s
• Training guides
Smart Exterior Lighting Initiative

All exterior light points will reduce automatically to 50% or less power upon vacancy and increase automatically to 100% upon occupancy.
Process road map

1. Establish shared vision
   • Needs assessment
   • Partnerships
   • funding

2. Identify strategic opportunities
   • Skills and capabilities
   • Partnerships
   • Addressing needs

3. Establish team, structure, and leadership

4. Identify partnerships
   • Market connections
   • Demonstrations
   • Commercialization

5. Build infrastructure

6. Do projects