



U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy



Guides and Specifications

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Cody Taylor
Building Technologies Program
U.S. Department of Energy

Overview – Guides and Specifications

1. 9:00-9:30 Assessment of Evaluation, Measurement, and Verification Methods
2. 9:30-10:00 Real Performance for Real Buildings
3. 10:00 – 10:30 Best Practices for Controlling Capital Costs in Net Zero Energy Design and Construction

Commercial Buildings Integration (CBI) Mission/Vision

The Commercial Buildings Integration (CBI) program's Mission

Accelerate voluntary uptake of significant energy performance improvements in existing and new commercial buildings.

CBI vision:

A commercial buildings market where energy performance is a key consideration during construction, operation, renovation, and transactions, and net zero energy ready commercial buildings are common and cost-effective.

Guides & Specs:

Provide design and decision support resources for new and existing commercial buildings.

How Guides and Specs Fit Into the Program

- Guides and are used strategically to make technical content accessible to a wide audience
 - e.g. how to design a highly-efficient hospital
- Specifications are used to make rigorous product specifications easy to use
 - e.g. how to specify a high performance fume hood in procurement
- Developing guides is not typically a standalone activity: it is the result of technical research, development, and demonstration.



Develop

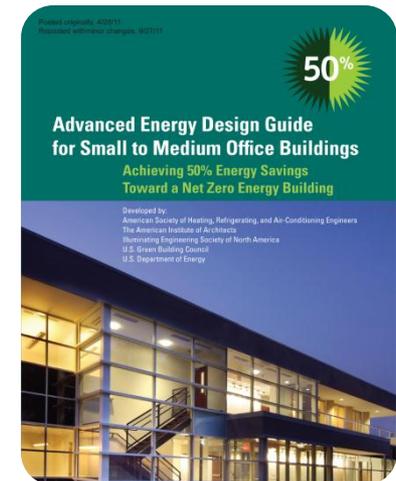
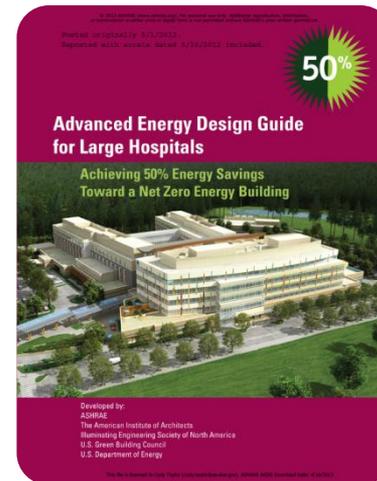
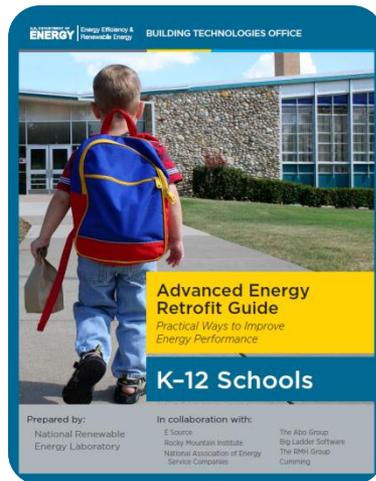
Demonstrate

Deploy

Guides and Specifications

Commercial buildings activity in Guides & Specs includes:

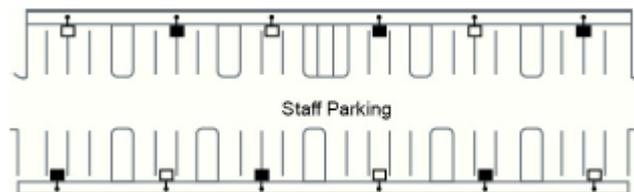
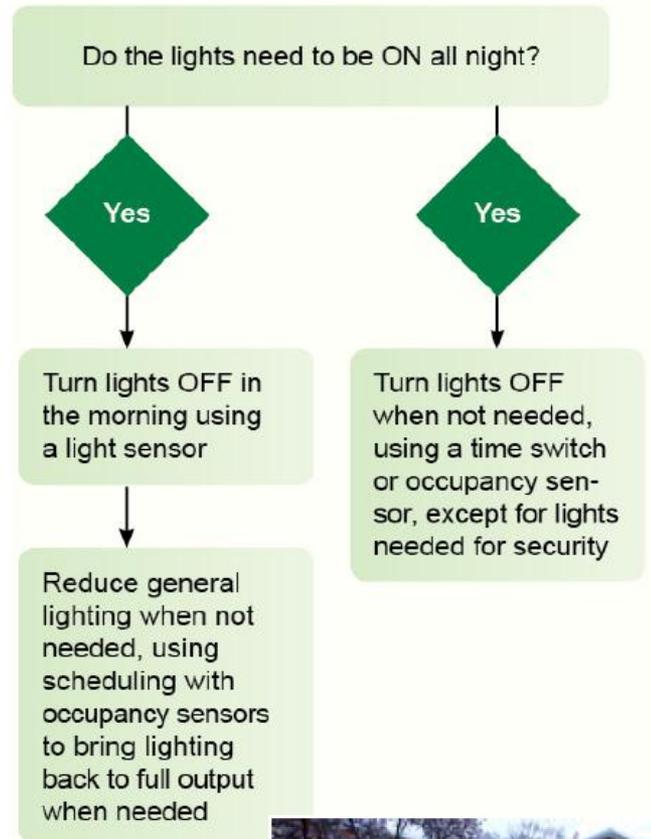
- Advanced Energy Design Guides
- Advanced Energy Retrofit Guides
- Product specifications
- Test Protocol for M&V methods
- Guidance on building design and procurement



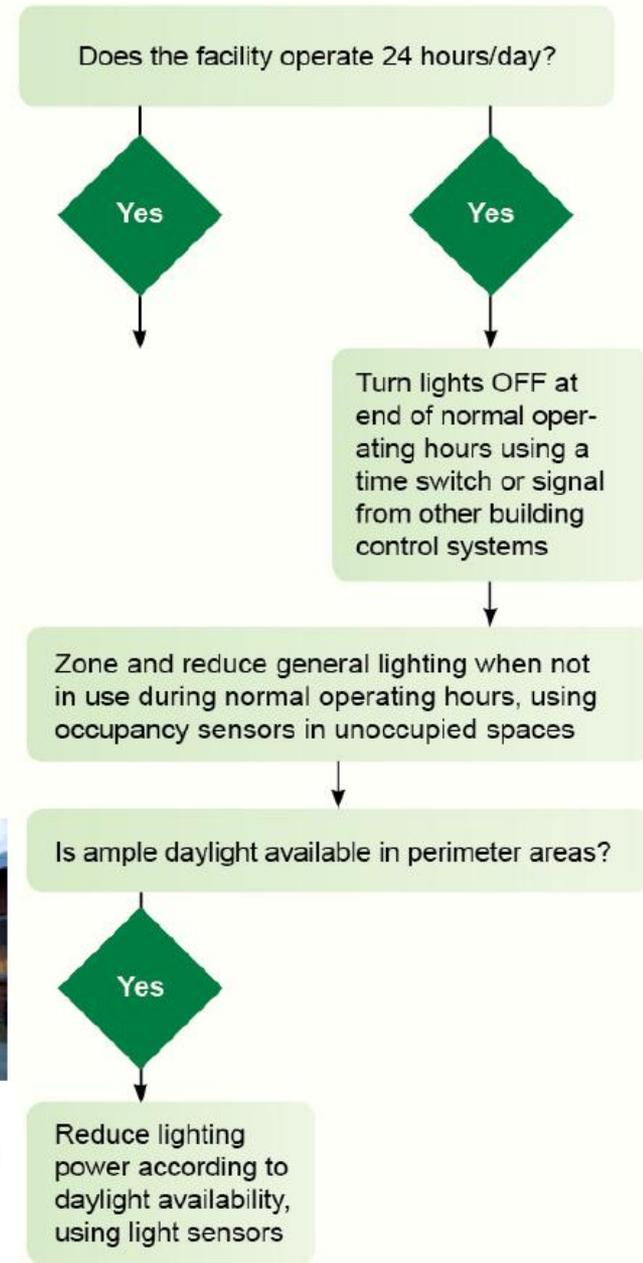
Example: Exterior Lighting Control Guidance

- Control strategies by application
- Lighting types
- Control devices
- Code compliance
- Wiring
- Zoning
- commissioning

Exterior Lighting (Outdoor Area/Parking Lot, Entrance/Exit Canopies, Wall Packs)



Parking Garages



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Questions?

Contact:

Cody Taylor

cody.taylor@ee.doe.gov

202-287-5842