



Codes and Controls 3.0

Credits: AIA Program #CEU125 (1.0 LU) | USGBC Approved #0920016170

Description: According to the U.S. D.O.E., other than process loads (e.g. motors, fans, machines...) lighting is the largest energy user in commercial buildings. Lighting consumes more energy than space heating, cooling, ventilation, refrigeration, electronics, water heating, cooking, and computers. Lighting controls can drastically reduce that appetite. They can eliminate 60% or more of the wasted lighting energy in buildings while enhancing occupant comfort and productivity. Building energy codes understand the importance of lighting control toward reducing energy consumption. This session will review the mandatory lighting control requirements in the latest commercial building energy codes such as ASHRAE 90.1-2016 and IECC 2018.



Learning Objectives

1. By reviewing U.S. Department of Energy data, the participant will be able to describe the importance of energy conservation in buildings and how light control significantly helps.
2. Using several light control strategies, the participant will be able to explain how light control saves energy in commercial buildings.
3. By reviewing commercial building energy codes requirements, the participant will be able to determine how light control helps meets those requirements.
4. Through examination of the provided real-world case studies, the participant will be able to describe how they used lighting controls to save energy.