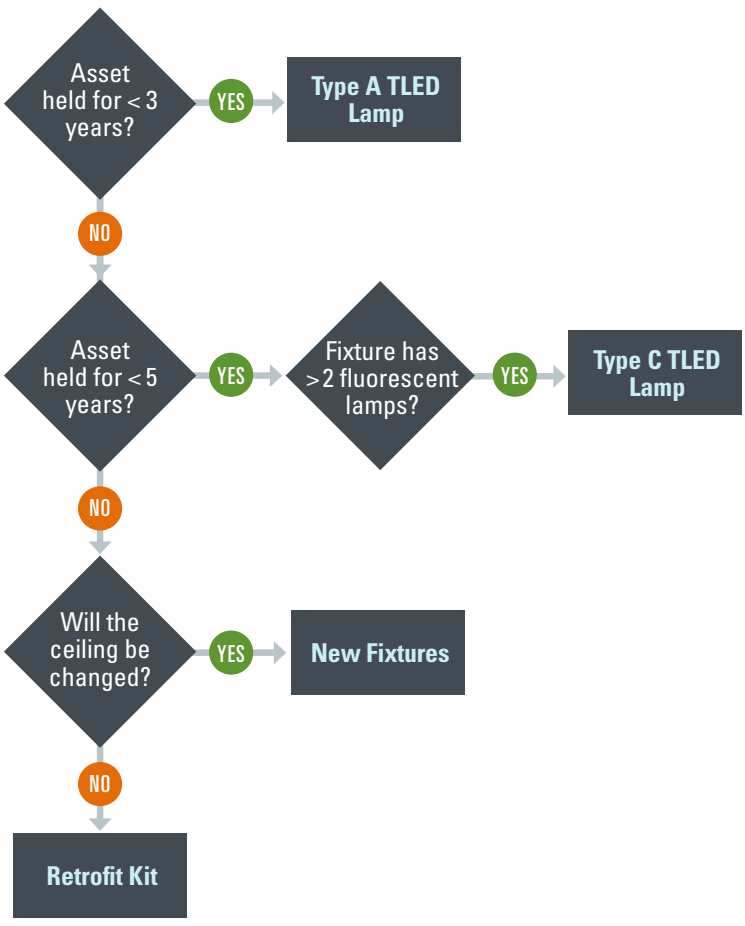
LED LIGHTING AND CONTROLS

Guidance for Federal agencies to select the most cost-effective and energy-efficient lighting systems available

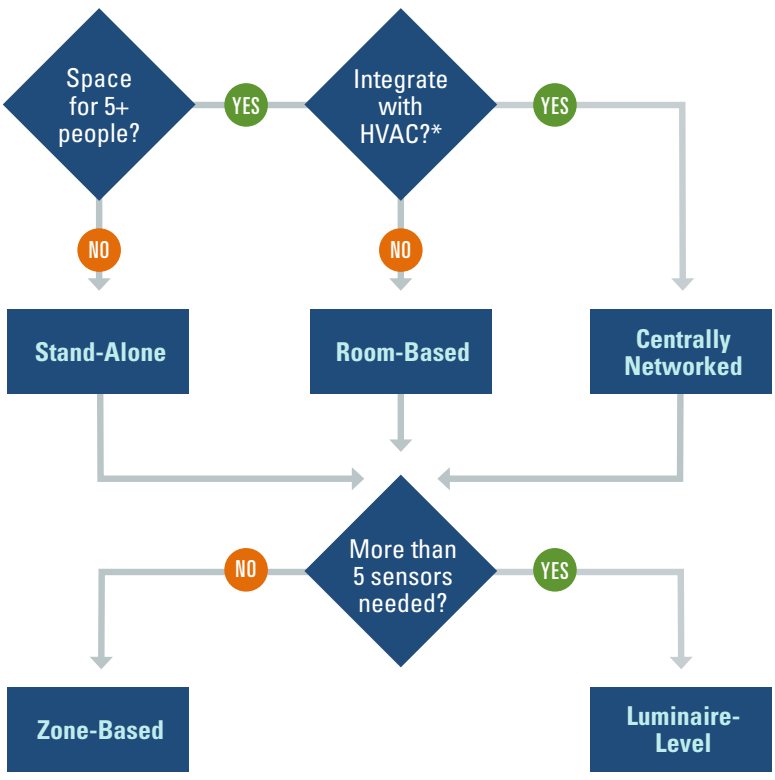
Use the guide as a roadmap and reference to select the best lighting system for your facility

The guide includes flowcharts that illustrate LED and control options with the best return on investment. It provides deployment guidance and implementation considerations and offers best practices and lessons learned from past GPG evaluations.

Decision Flowchart for Retrofitting Linear LED Lighting



Decision Flowchart for Lighting Controls



*Heating, ventilation, and air conditioning (HVAC) integration is recommended for buildings over 50k ft^2; consider for buildings over 25k ft^2

Follow 8 steps to streamline your lighting control design

1. Review Energy Code Requirements
2. Assess Need for Enhanced Capabilities
3. Design Lighting Zones
4. Select a System Architecture
5. Determine Sensor and Controller Location
6. Configure Control Wiring
7. Identify Communication Protocols
8. Plan for Retro- and Re-Commissioning

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GSA

The Center for Emerging Building Technologies' three programs, Green Proving Ground (GPG), Pilot to Portfolio (P2P), and Applied Innovation Learning Lab (AILL), enable GSA to make sound investment decisions in next-generation building technologies based on their real-world performance.