






## Energy Code Compliance Standards

Meeting energy code compliance is a key component within the commercial building specification process. These established codes are frequently linked, by utility sponsored programs, as qualifiers for commercial building lighting and Networked Lighting Controls (NLC) rebate programs. **Toggled iQ complies with national energy code standards and qualifies for available utility rebates.**

ANSI/ASHRAE/IES 90.1	
Code Compliance Requirement	Toggled iQ Products Meet Requirement
<p><b>Lighting Alterations 9.1.2</b> Alterations Must Follow:</p> <ul style="list-style-type: none"> <li>• Interior lighting power and control requirements (except daylighting).</li> <li>• Exterior lighting power and control requirements.</li> <li>• General lighting luminaires must be controlled per Table 130.1-A's control step and uniformity criteria (mandates dimming capability for LEDs).</li> </ul>	✓
<p><b>Local Control Device 9.4.1.1(a)</b> One or more manual control devices in a space:</p> <ul style="list-style-type: none"> <li>• Readily accessible.</li> <li>• Ability to view lighting control from local device. (May be an on/off switch or dimmer)</li> </ul>	✓
<p><b>Manual or Partial Auto On 9.4.1.1(b) and 9.4.1.1(c)</b> Lighting shall either be manual on or auto on applicable to no more than 50% of the general lighting.</p>	✓
<p><b>Bi-level Control 9.4.1.1(d)</b> Besides on and off, general lighting is either continuously dimmed or controlled with at least one step between 30% and 70% of full lighting power.</p>	✓
<p><b>Automatic Daylight Responsive Control 9.4.1.1(e) and 9.4.1.1(f)</b></p> <ul style="list-style-type: none"> <li>• Either continuous dimming or at least one step between 50-70% and a second step between 20-40% or lowest dimmed level.</li> <li>• Ability to turn off all controlled lighting.</li> </ul>	✓
<p><b>Automatic Partial Off 9.4.1.1(g)</b> Capable of automatically reducing general lighting <math>\leq</math> 50% within 20 minutes of occupant leaving. Automatic full off.</p>	✓
<p><b>Automatic Full Off 9.4.1.1(h)</b> All lighting must auto off within 20 minutes of occupant(s) leaving. Control device shall control an area no larger than 5,000ft<sup>2</sup>.</p>	✓
<p><b>Scheduled Shut Off 9.4.1.1(i)</b> Lighting not already shut off by Automatic full off control must be shut off when scheduled unoccupied:</p> <ul style="list-style-type: none"> <li>• Time schedule or other control device signal</li> <li>• Control area <math>\leq</math> 25,000ft<sup>2</sup> but not more than one floor</li> <li>• Override <math>\leq</math> 2 hours and area <math>\leq</math> 5,000ft<sup>2</sup></li> </ul>	✓

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<p><b>Automatic Receptacle Control 8.4.2</b></p> <p>At least 50% of receptacles and 25% of feeders to modular furniture shall auto off by either:</p> <ul style="list-style-type: none"> <li>• Time schedule, ≤ 2 hour override, control area ≤ 5,000ft<sup>2</sup></li> <li>• Occupancy sensor with 20 minute off delay</li> <li>• Automated signal that shall auto off receptacles within 20 minutes of occupant(s) leaving</li> </ul>	
<p><b>Parking Garage Lighting Control 9.4.1.2</b></p> <ul style="list-style-type: none"> <li>• Automatic lighting shut off per 9.4.1.1(i)</li> <li>• Automatically reduce lighting ≥ 30% when no activity detected within 20 minutes and with the area controlled ≤ 3,600ft<sup>2</sup></li> <li>• Covered vehicle entrances and exits have separate controls to reduce lighting ≥ 50% from sunset to sunrise</li> <li>• Within 20ft of perimeter wall openings, automatically reduce lighting power in response to daylight</li> </ul>	
<p><b>Guestroom Control 9.4.1.3(b)(1)</b></p> <p>Auto off all lighting and switched receptacles within 20 minutes of occupants leaving</p> <ul style="list-style-type: none"> <li>• Bathroom Control</li> <li>• Guestroom bathrooms have separate control to auto off bathroom lighting within 30 minutes of occupants leaving</li> </ul>	
<p><b>Exterior Lighting Controls 9.4.1.4</b></p> <ul style="list-style-type: none"> <li>• Auto off when daylight is available</li> <li>• Façade, landscape auto off no later than midnight or closing and 6AM or opening</li> <li>• Reduce other lighting and signage ≥ 50% no later than midnight or within one hour after operations end to 6AM or opening, or when no activity detected for &gt; 15 minutes</li> <li>• Parking lights &gt; 78W with mounting heights ≤ 24ft must reduce power ≥ 50% when no activity detected for &gt; 15minutes. Control zone ≤ 1500W</li> </ul>	
<p><b>Functional Testing 9.4.3</b></p> <p>Lighting controls tested for proper calibration, adjustment, programming, and working condition</p> <ul style="list-style-type: none"> <li>• Certify occupancy sensor parameters</li> <li>• Confirm and verify automatic time switch parameters</li> <li>• Verify daylight controls meet criteria</li> </ul>	

Find additional Toggled iQ energy code compliance standards at [toggled.com/applications/energy-code-standards](https://toggled.com/applications/energy-code-standards)