Lighting within commercial offices represents one of today’s greatest opportunities for energy use reduction and savings. According to the Department of Energy, lighting makes up 39% of the electrical use in office buildings – by far the largest single source. Retrofitting with a more efficient light source is a start, but installing wireless lighting controls from Philips OccuSwitch Wireless LightManager solutions can save an additional 40 – 70% in lighting energy costs.

Wireless solutions are the smarter and greener choice for today’s intelligent office—reducing installation costs by up to 50% while enabling advanced capabilities such as multi-facility management, demand response, and whole building integration via BACnet. Wireless lighting controls provide granular management to optimize energy savings within each individual area of the office, centralized control over enterprise-wide lighting, and ultimate flexibility for reconfiguration. Whether installed alone or as part of a larger retrofit, Philips can help meet government regulations and contribute valuable points towards LEED.
Wireless Solutions for Intelligent Offices

The Philips OSW LightManager platform is a powerful and simple-to-install solution for energy-saving lighting controls in offices. The OccuSwitch intelligent wireless mesh network eliminates dedicated control wiring and physical control panels, removing much of the expense and complexity of lighting controls. Sensors, wall switches, and drivers all communicate with each other wirelessly, either through built-in wireless capabilities or with an adapter.

A wireless lighting control solution from Philips Controls not only offers control over individual lights and offices, but also provides buildings with true enterprise-wide control: multi-facility lighting management from a single console. Facility managers can view real-time energy reports, create intelligent lighting zones and set control strategies through OSW LightManager, an intuitive Web-based application, and their commands are applied across the building or enterprise.

As the office evolves, the flexible OccuSwitch solution changes with it. The ability to add zones, sensors, control strategies and even new types of lighting (such as LED and task lighting) over time through software-based updates greatly reduces the need for expensive re-commissioning. Because Philips uses open standards, offices have access to a fast-expanding set of cost-effective wireless devices.

Key Benefits

- Fastest payback - up to 50% less expensive than wired lighting control installation.
- Scalable from a single office to system-wide control of lighting across a distributed enterprise.
- Reliable and robust ZigBee mesh architecture for fast, reliable, bi-directional control.
- Real-time, measurable information about energy usage.
- Easy to install, commission and manage.
- Integrates office lighting control into advanced smart grid and demand management applications.
- Simple and intuitive remote user interface for energy management.
- Flexibility to add new devices, features and control strategies over time.

ROI Example

<table>
<thead>
<tr>
<th>Square feet:</th>
<th>50,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity cost:</td>
<td>$0.12 /kWh</td>
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<td>Incentive:</td>
<td>$0.07 /kWh saved</td>
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<tr>
<td>Annual kWh savings:</td>
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<tr>
<td>Lighting energy cost reduction:</td>
<td>56%</td>
</tr>
<tr>
<td>Time to payback:</td>
<td>2.1 years</td>
</tr>
</tbody>
</table>
Powerful Control for Offices

• **Flexible Centralized Scheduling** – Facilities can set an automated lighting schedule online for each individual zone or office.

• **Wireless Occupancy Sensing** – Wireless sensors can be conveniently placed where they will achieve the most appropriate coverage, reducing lighting levels when areas are not occupied.

• **Auto Demand Response** – The OSW LightManager solution receives demand signals from utilities through OpenADR, to automatically reduce lighting usage during peak times based on priority and zone.

• **Scalability** – Facilities can expand the OSW solution over time, limiting up-front expense.

• **Task Tuning** – Many offices are over-lit without regard to varying employee needs. Through Task Tuning, the OccuSwitch Wireless system can set a more appropriate maximum light level for each office area.

• **Individual Control** – By offering individual workers personal control over the lighting in their area, an OSW LightManager solution can both increase employee satisfaction and further reduce energy usage.

• **Energy Management** – System-wide energy management enables facility managers to view and compare energy usage over time across buildings, floors and individual offices, including BACnet integration.

Commercial Office Applications

• **Office Retrofit** – As part of a retrofit in a single-tenant or owner-occupied space, Philips OSW LightManager easily adds energy-saving intelligence and control. One OSW Access Controller (OSWAC) is installed per floor or large area on the existing IT network, and OccuSwitch Wireless Switches and Load Adapters are installed in selected positions and fixtures at the time of retrofit. The system automatically performs the key commissioning tasks, and the rest is performed online for a fast, painless, and cost-effective installation across the entire building, campus or enterprise.

• **High-rise Tenant Improvement** – OSW LightManager enables Tenant Improvement projects to exceed building code requirements—typically at lower cost than basic code-compliant solutions. Each tenant receives control over their own space, while building management gains visibility into usage across tenants. Using wireless also reduces the cost of future lighting projects, eliminating the need to replace line-voltage wiring.

• **Branch Offices** – OSW LightManager’s multi-facility architecture makes the management of distributed offices simple. Each office uses a single OSW Access Controller (OSWAC) to control its local fixtures, sensors and switches. Each OSWAC is connected to headquarters via the corporate IP network. This allows both local control of light levels, and centralized management of lighting strategies and energy use, even across large distributed corporate enterprises.