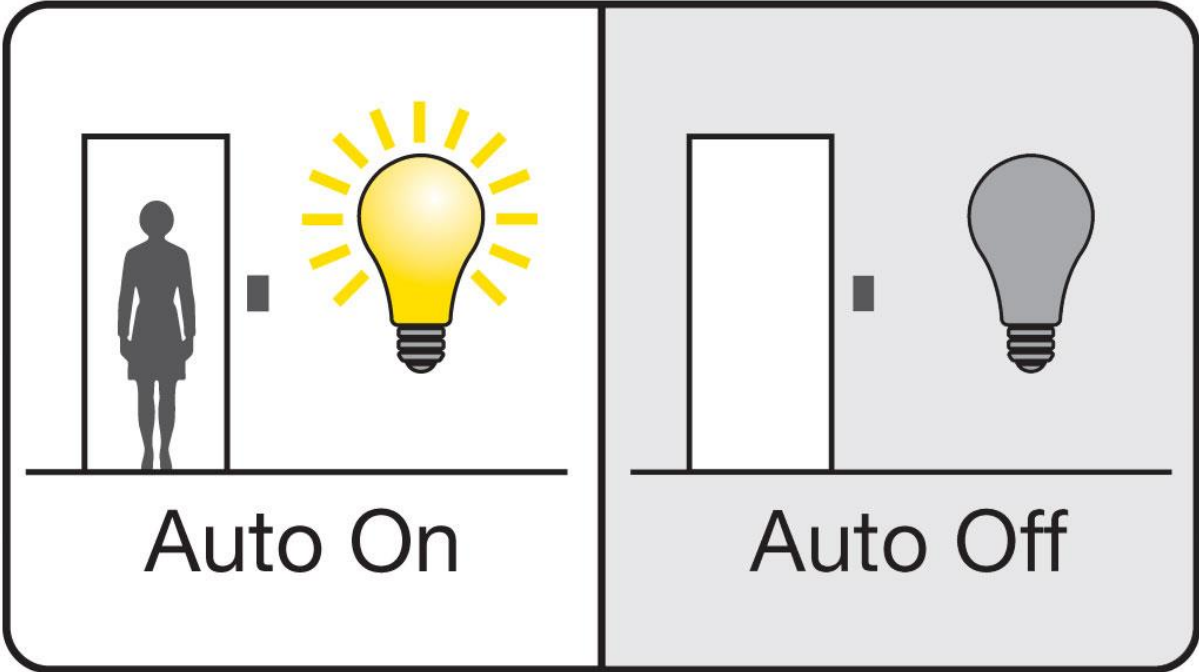


SIGMA POWER TECH PVT. LTD.

Redefining Innovation...

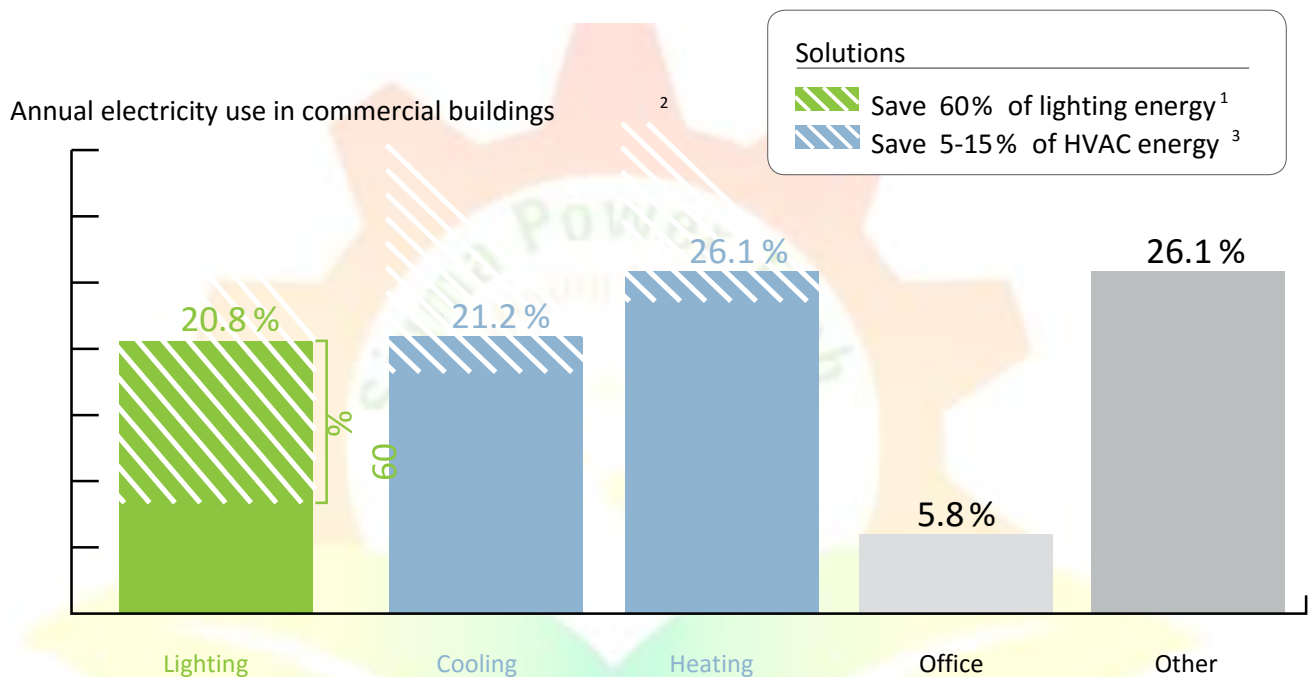


Introducing automatic lighting control system (Occupancy based).



Save up to 60% of lighting electricity usage · increase occupant comfort and productivity ·

Control virtually all loads, reduce installation and programming costs.



Lighting typically accounts for 20.8% of electricity usage in new construction and retrofit commercial applications, which include spaces such as classrooms and offices. These applications benefit from our System Automatic Lighting Control through strategies like **automatic occupancy/vacancy sensing and daylight harvesting**.

Studies show that proper lighting is beneficial to space occupants. By providing task-appropriate lighting and individual lighting control, our system improves comfort and occupant satisfaction, resulting in increased productivity.

This system requires no additional wiring. The components communicate wirelessly via **Radio Frequency (RF) technology**. In addition, simple button press programming eliminates the need for factory commissioning.

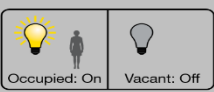
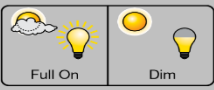
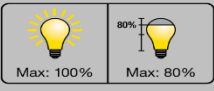

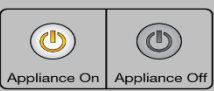

Applications:-

- Public bathroom application
- Private office application
- Conference room application
- Classroom application
- Indoor auditorium

Benefits and energy-saving control strategies:-

- Ease of installation and programming.
- All points of control are wireless for simple installation with no new wiring.
- Simple button programming procedures for all devices.
- Cost-effective.
- Overall labour and cabling costs reduced due to wireless communication – no additional wiring.
- Save energy and money

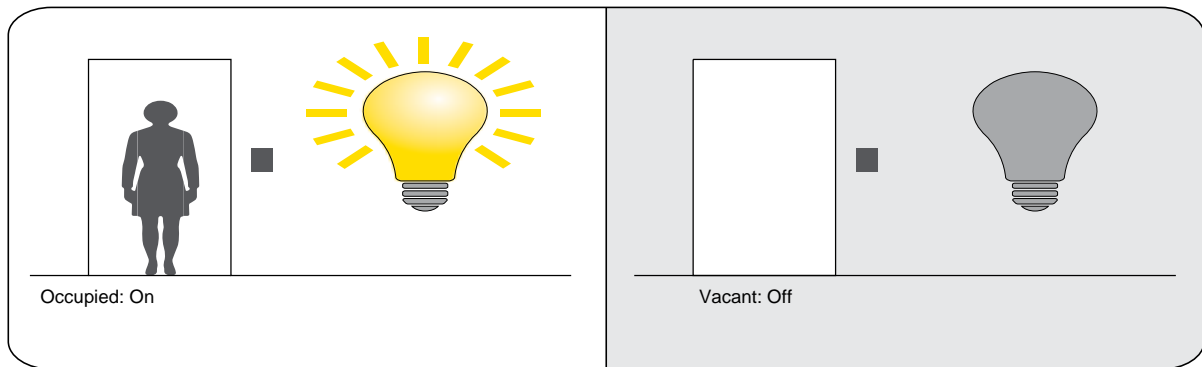
Simply incorporate the following energy-saving control strategies:

		Potential savings
	Occupancy/vacancy sensing turns lights on when occupants are in a space and off or dimmed when they vacate the space.	20–60% Lighting ¹
	Daylight harvesting dims electric lights when daylight is available to light the space.	25–60% Lighting ²
	High-end trim sets the maximum light level based on customer requirements in each space.	10–30% Lighting ³
	Personal dimming control gives occupants the ability to set the light level.	10–20% Lighting ⁴
	Plug load control automatically turns off loads after occupants leave a space.	15–50% ⁵ Non-Electronic
	HVAC integration controls heating, ventilation and air conditioning systems through contact closure.	5–15% ⁶ HVAC

Energy-saving control strategies:-

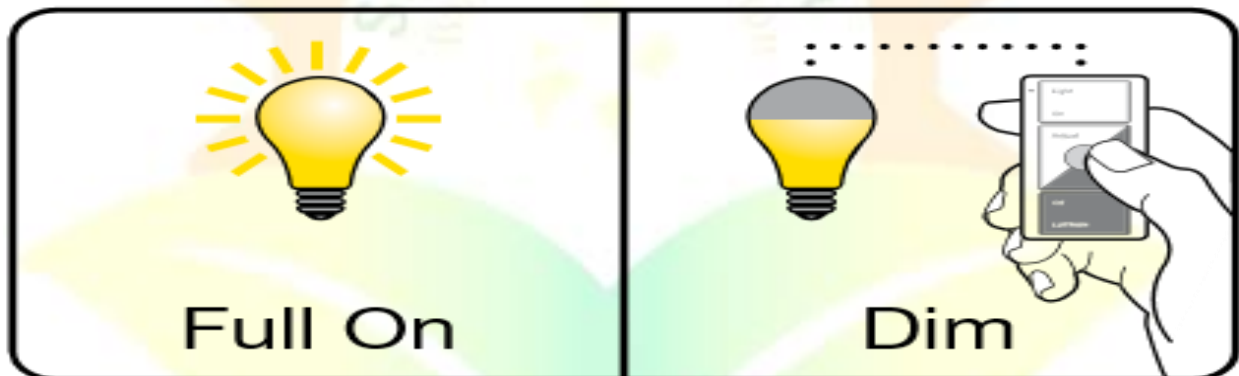
Occupancy/vacancy sensing

Turns lights on when occupants are in a space and dims lights to a low level or turns lights off when they vacate the space.



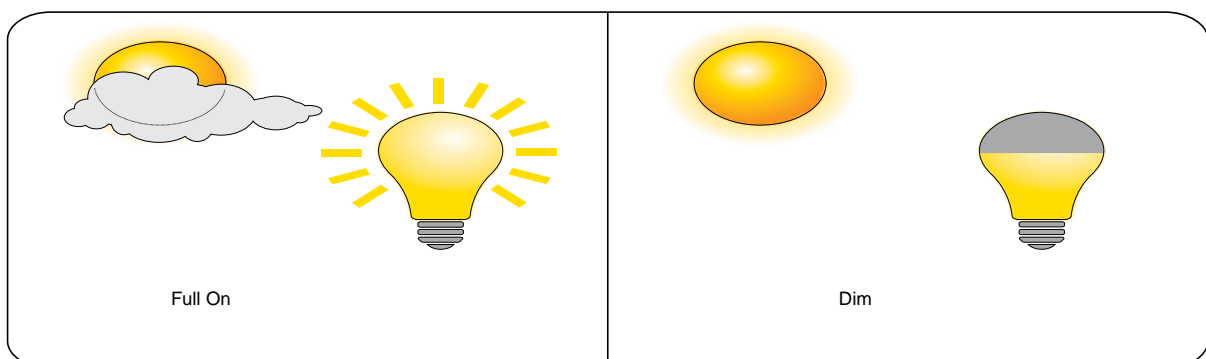
Personal dimming control

Gives occupants the ability to set the light levels.

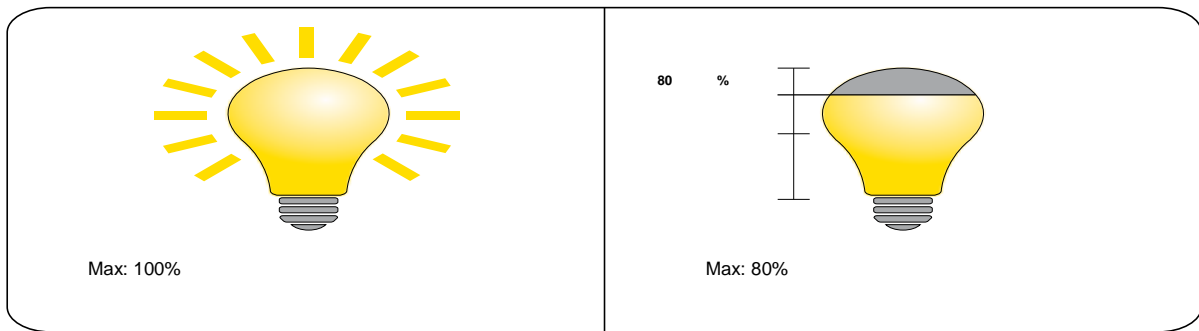


Daylight harvesting:

Dims electric light when daylight is available to light the space.

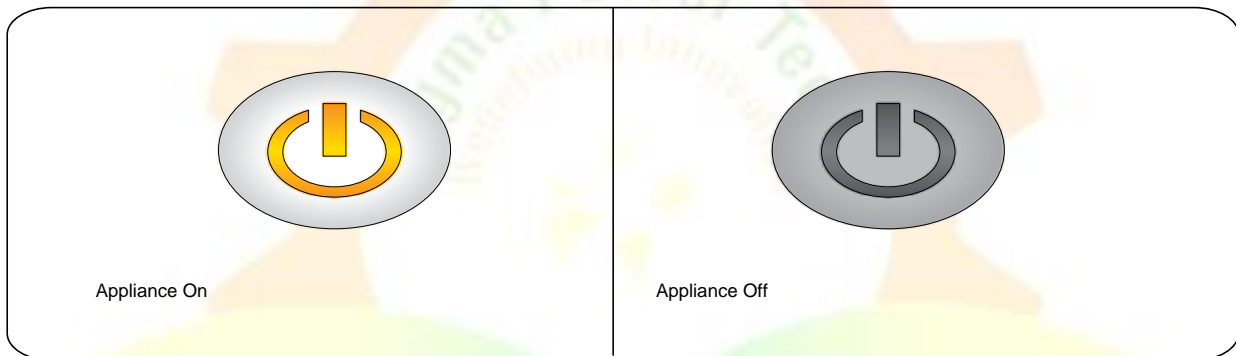


High-end trim: Sets the maximum light level based on customer requirements



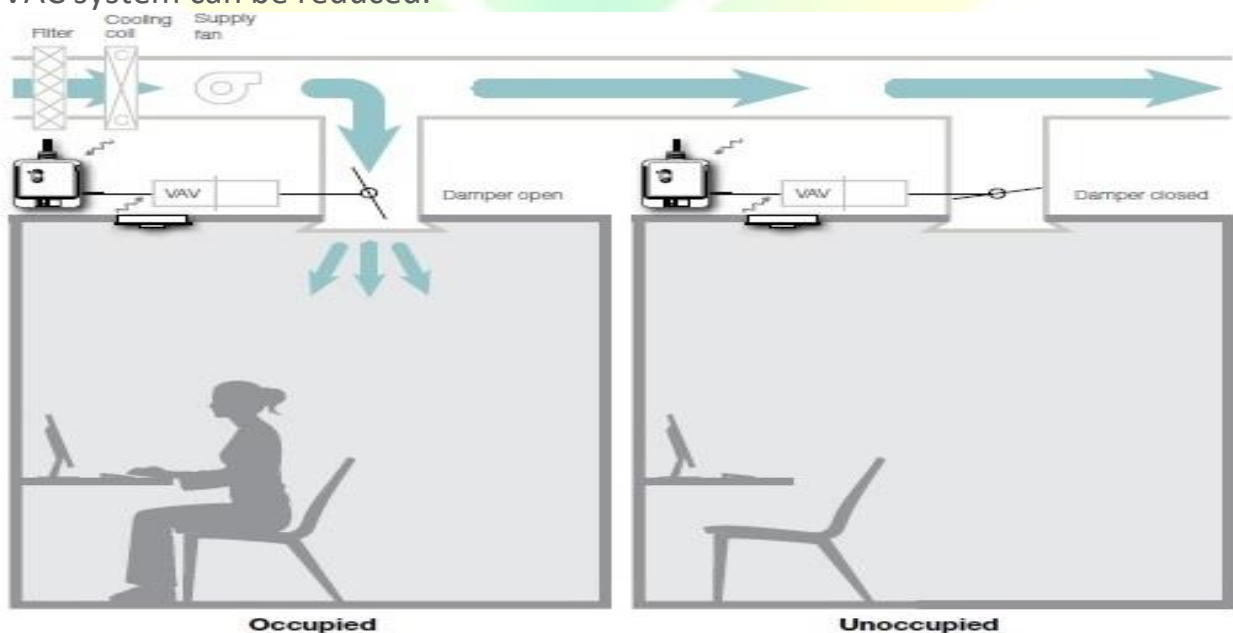
in each pace.

Plug load control: Automatically turns off loads after occupants leave a space.



HVAC (VAV Integration) Integration:

By not heating or cooling an unoccupied room, the electricity consumed by the HVAC system can be reduced.



Applications Examples:-

Public Bathroom:



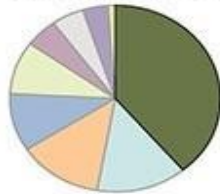
Class Room:



Conference Room:



Annual electricity use in office buildings¹



39% Lighting
14% Space Cooling
13% Other
10% Computers
9% Ventilation

5% Space Heating
5% Refrigeration
4% Office Equipment
1% Water Heating

Contact Us:

Sigma Power Tech Pvt. Ltd.

F13/14, Pandav Nagar

New Delhi -110091

www.sigmapowertech.com

info@sigmapowertech.com

+91-9958633180,9821754808

Our Expertise: Project Consultancy& AMC, Complete Solar Solution, Automation (Building Management/Home Automation), Security & Surveillance (CCTV/PA System/Access Control), Fire Alarm System, Fire Fighting System, Lighting Control System(also Emergency Lighting) etc.