

# COMMERCIAL DESIGN

The definitive guide to successful commercial spaces and facilities management

Lighting and automation - the new mantra for efficiency;  
What is driving industrial and warehousing demand? Top trends in coworking segment

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## THE EVOLVING SCHOOL OF THOUGHT

TO UNDERSTAND INSTITUTIONAL BUILDINGS AND THEIR EVOLVING ARCHITECTURE BETTER, COMMERCIAL DESIGN LOOKS AT HOW A HOST OF FACTORS INFLUENCE DESIGN IN THIS DOMAIN





### INTEGRATING THE “SMART” IN LIGHTING

By Pragya Sanghavi, Director, Pentaspace Design Studio



A smart office is one where smarter energy management incorporates integrated lighting and HVAC controls for creating energy efficient workplaces. Up to 80% energy savings can be done by using LED Lighting, integrated sensor and HVAC integration, while designing and planning these spaces.

Lighting controls like sensors for movement and daylight are being used to measure values such as temperature, humidity, daylight or room occupancy. Different spaces require different lighting automation. Conference rooms, open offices, workstations, etc, would work better with a combination of switches and sensors, external corridors and washrooms should use only motion sensor to save electricity.

If the lighting control system are able to dim as well as switch off lights, it can lead to increased electricity savings. Using dimming control enables occupants to create mood lighting. One such technology is Power over Ethernet (PoE) for connected lighting systems that can help buildings be smart and energy efficient. Lights left on in empty buildings is a sure sign of waste and unnecessary carbon emissions. Thus, no matter what technology you use, at the end of the day switching it off is the best solution to save energy.



sensors such as motion and touch interactions.” For instance, lighting can be integrated to a smart security system – so that when the security alarm goes off, the lights come on automatically.

Shalini adds that the concept of controlling lighting digitally from a remote location is also popular. “There is a growing demand because the technology is not just functional, but also has a wow factor associated with it.” Wireless lights are popular abroad, and the trend is steadily

catching up in India too.

The idea of lighting automation is fast gaining a foothold, bringing a tremendous change from the old and ordinary.

GM’s Intelligent Building Control System offers a broad range of options for optimum energy efficiency. The innovative G-Bus technology communicates directly with KNX, enabling the integration of many devices and facilitating total flexibility in communicating with your home environment, at your ease. G-Bus

Automation system allows you to control the lights, blinds, etc. “It also turns appliances on/off and monitors their behaviour with a Wi-Fi or 3G or 4G connection through the GM G-Bus-App, from wherever you are in the world, using a tablet or a smartphone.”

One of the top lighting trends to have recently emerged, is connected ambient lighting that can seamlessly integrate with a Wi-Fi network, enabling users to remotely control and operate it, using just their smartphone. 📱