interact Office

First IoT-based connected lighting system in the Nordics

As part of its plan to use integrated IT and communication technologies to improve citizen services, the municipality of Albertslund, Denmark, has installed the first IoT-based connected lighting system in the Nordics in their new office building.

Customer challenge

With the desire to use the latest technology to drive operational efficiency and support sustainability objectives, the municipality of Albertslund in Copenhagen has installed the first IoT-based connected lighting system in the Nordics in their newly built smart office building.

Solution

Through the Interact Office management software, the installation gives building managers unique insights into energy use and space utilization, while enabling office workers to personalize the office lighting around their workspace through a smartphone app. The project is a key part of Copenhagen's Lighting Metropolis initiative

Albertslund Municipality believes that the energy-efficient connected office lighting system can act as a platform in the evolution towards using IoT technologies to deliver better insight, management and services. Now that connected lighting infrastructure is in place, additional evolving applications can be added via the Interact Office software.

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Interact — Making it happen

The smart office in Copenhagen features a connected LED lighting system with embedded occupancy sensors that are integrated in the luminaires. Approximately 400 lights are connected via Cisco switch technology and the connected lighting can also share data acquired via the sensor network. The connected lighting system transmits the data directly via Interact Office software which is integrated with other building management systems.

Data-driven insights

Data acquired by the sensors will provide new insights via the Interact Office management software into the building's use and operations. Information, such as light levels, energy consumption and room occupancy, will help building managers optimize energy use and improve management of the office space.

Personal control

The connected lighting system gives office workers the ability to control the lighting and other building services via the Interact Office smartphone app. This supports the Municipality's goal of creating a progressive working environment that increases employee satisfaction and productivity, ensuring that employees feel empowered and have the right light for any given task.

Lighting management

Take the hassle out of managing your office lighting by remotely monitoring the performance of all light points across one or multiple sites, gaining real-time insight into energy consumption, fault detection, and predictive maintenance. Always have the right data on hand to make impactful decisions.

Space management

Software draws on data collected over the connected lighting system to create a more efficient and productive workspace. You'll also be able to capture and analyze building occupancy data to optimize space and reduce real estate costs over time. And release meeting rooms that have been booked but aren't being utilized.

Project details

- First IoT-based connected lighting system in the Nordics
- Occupancy sensors are integrated with Philips SmartBalance and Philips PowerBalance luminaires
- The connected lighting system uses Cisco PoE switches that transmit power and data over standard Ethernet cables

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