



Office lighting

The Edge

# How Deloitte created an intelligent building by harnessing the Internet of Things.



At The Edge, InterAct Office, the smart connected lighting system from Philips, helps create a more comfortable, productive and sustainable environment.

## Find out how the world's most sustainable building harnesses the Internet of Things

When architects were invited to create an innovative multi-tenant office in Amsterdam, the goals were clear: to deliver an intuitive, comfortable and productive environment that would lead sustainable building design around the world. Philips Lighting worked closely with the building's principal tenants OVG Real Estate and Deloitte to install their new connected lighting system, InterAct Office.

**“Innovation is our highest priority and we want to raise the bar in terms of data analysis, delivering new insight into the use of the office space. It shows how we can reduce CO<sub>2</sub> emissions from buildings and create a more sustainable world.”**

Eric Ubels, ex CIO Deloitte

## InterAct Office

InterAct Office apps and dashboards help optimize Deloitte's lighting investment by delivering granular insights into their use of space and energy to enhance the management and flexibility of the open-plan office. Sensors integrated into the connected lighting receive and transmit anonymized data on lighting performance and how employees use the space, enabling Deloitte to optimize the lighting, HVAC, cleaning and space usage to improve efficiency, reduce energy usage and optimize space costs.

Employees use an app to personalize their workspace lighting above their desk, improving visual comfort and wellbeing. They can use the app to adjust the lighting and temperature in meeting rooms. By communicating and interacting with the environment, office life becomes an immersive experience, making the building a more inviting place to work.

## Philips Lighting – making it happen

Nearly 6,500 connected LED luminaires are used to create a digital lighting infrastructure throughout the building's 15 stories. Integrated sensors in 3,000 of these luminaires collect granular anonymous data on occupancy, temperature and light that is fed into a centrally-hosted software dashboard, which captures, stores, shares and distributes information about the illuminated spaces.

Operations and infrastructure managers use the software to visualize and analyze real-time and historical occupancy data, enabling them to make fact-based decisions on space optimization and workplace design, and allowing them to track energy consumption and streamline building operations. 750 Power-over-Ethernet (PoE) switches are used to connect lighting fixtures to the building's IT network. Ethernet cables send both power and data to the luminaires, eliminating the need for separate power cabling.



### Savings

- €3.6m savings in office space per annum\*
- €100,000 reduction in energy costs per annum\*
- About 2,500 Deloitte workers now successfully share 1,000 desks
- Lowered the annual cost of space per employee by over €1,800



### Employee control

Personalization of lighting scenes and room temperature gives employees control of their working environment. Wherever they go, it knows their preferences for light and temperature and can adjust the environment to suit.



### Highest accolade

The combination of smart technology and intelligent design, underpinned by the Philips connected lighting system, helped the building receive a BREEAM sustainable building score of 98.36%. BREEAM is the world's leading design and assessment method for sustainable buildings, and this is the highest score ever awarded.



### Competitive edge

Deloitte has seen a four-fold increase in job applicants, which they attribute to the building's prestige and sustainability appeal, indicating that workers feel attracted to and excited about the smart features in the space.

## About The Edge, Amsterdam

A landmark 40,000 square meter building, The Edge has a host of sustainability features, including solar panelling, aquifer thermal energy storage for heating and cooling, rainwater harvesting and a 15-storey atrium with state-of-the-art daylighting and natural ventilation.

\*Versus previous occupied HQ

**Find out how Philips Lighting can transform your business**

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