



SMART TECHNOLOGY BETTER SPACES >

CoreSync Case Studies

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MOLEX CORESYNC

SMART BUILDING SOLUTION

Smart building technology has the potential to revolutionize the way we think about spaces: creating healthy, productive workspaces, reducing energy usage, streamlining facilities management.

Modular and customizable, CoreSync enables you to make your facilities smart in the ways that matter to you. A wide range of OEM and compatible devices and a powerful API enable a huge range of options, while a PoE infrastructure provides security and reliability.

Occupant Experience

Control environmental conditions such as light brightness and room temperature to create human-centric spaces that enable occupants to perform at their best.

Sustainability

Achieve your sustainability goals with real-time, granular data, sophisticated automation and easy reporting.

Efficiency

Streamline the workload of facilities teams, enabling them to concentrate on strategic activities that generate real value.



POWERHOUSE BRATTØRKAIA

Trondheim, Norway

The Powerhouse Brattørkaia project was designed to serve as a leading example for the northern hemisphere: a building that produces more energy than it consumes over its lifespan. The aim of the project was threefold: to maximize the amount of clean energy produced by the building, to minimize the energy required to run it, and to serve as a pleasant space for its tenants and the general public.



Reduced energy wastage

by controlling 2000 lights based on schedules and real-time data from 2500 sensors



Biodynamic lighting

automatically manages the color of indoor lighting to match the natural shift of daylight for optimal comfort and productivity



PoE switch shutdown powers down nonessential switches when not likely to be in use, further saving energy



BREEAM Outstanding The building produces over twice as much electricity as it uses. This certification is the highest offered by BREEAM



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PENN 1

New York City, NY, USA

Constructed in the 1970s, PENN 1 is a 42,000 square-foot building located in Midtown Manhattan. Originally devoid of smart or data-driven design, the evolving landscape shaped by the global pandemic prompted a strategic reassessment of its purpose. The shifting dynamics between companies, their workforce, and workspaces compelled the building to adapt and create an innovative workspace conducive to emerging flexible work paradigms efficient utilization of the space.



Integration with other building systems streamlining data aggregation and visualization for effective subsystem management



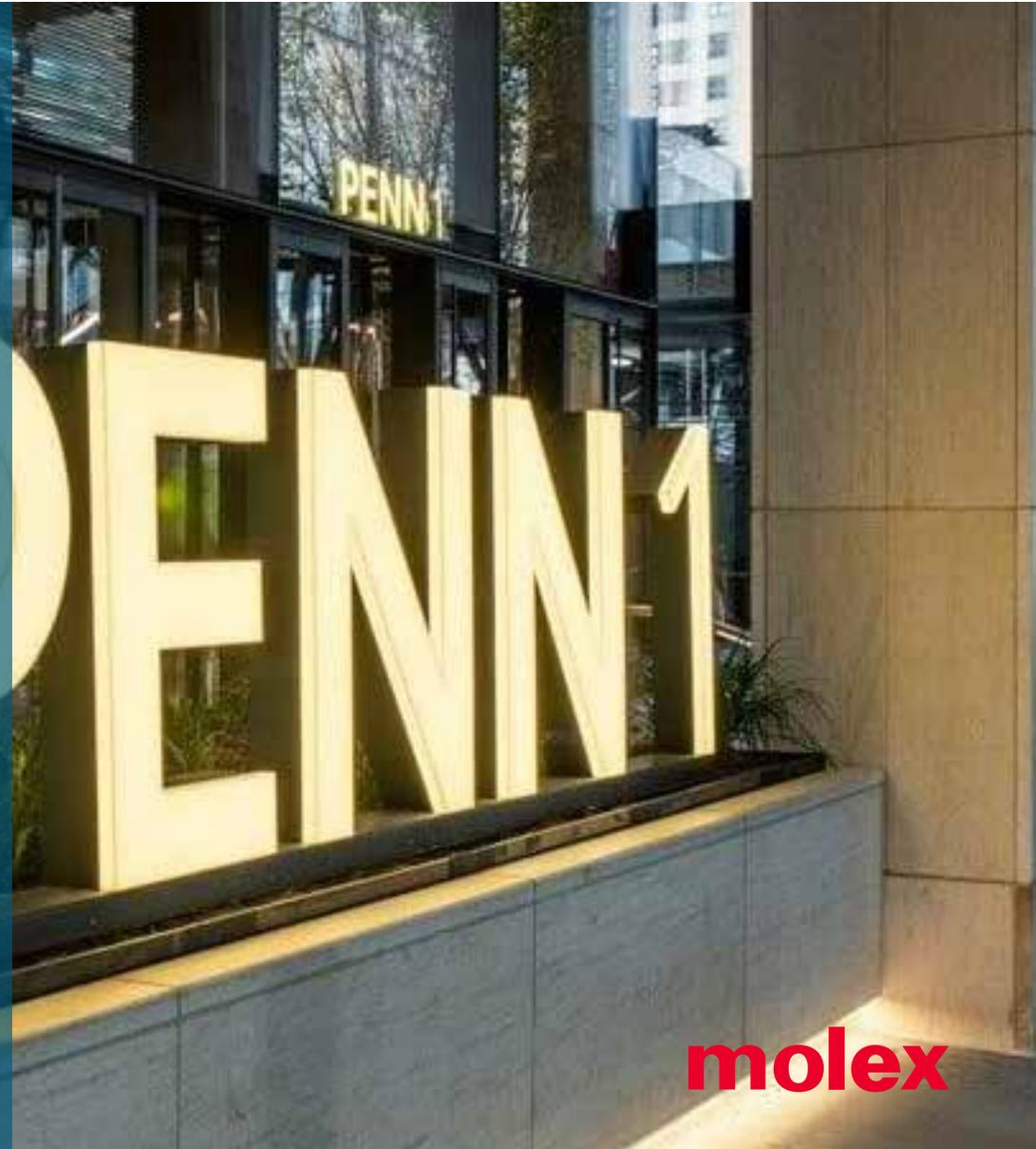
Granular sensor network monitors air quality, temperature, humidity, space utilization and more]



Emergency lighting system removes the need for separate emergency lights and local battery backup



Designed to optimize flexible working Aggregated data collection enables insights on how spaces are truly being utilized



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EDUCATION CENTER

USA

A renowned education center that serves 18 school districts in the US aims to deliver the highest quality learning experience. As technology evolves, classrooms can become more than simply spaces people exist in while they learn: they can become an integral part of the learning experience. Flexibility is a key element of this project, enabling spaces to be easily repurposed for different functions or lesson types.



Energy efficient lighting

The CoreSync controlled lighting system is Design Lights Consortium listed, verifying its high energy efficiency.



Built-in RGBW indicators

notify users of specific events such as exam in progress, space availability and emergency situations



Customizable lighting

Lighting can be customized depending whether a presentation, discussion, practical lesson or exam is in progress



Granular occupancy data

is used to create automated and reactive programming. Planned upgrades will draw on the same foundational sensor network



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GEORGIA PACIFIC

Atlanta, GA, USA

The Georgia-Pacific Tower is a landmark skyscraper in Atlanta, at one time the city's second tallest skyscraper. The building comprises 52 stories overall, of which 23 are occupied by GP, covering 500,000 sq ft. This iconic building was in need of a refit to improve the working environment and modernize, maximizing functionality, efficiency and integration, and minimize operating costs.



Automatically modulated HVAC systems Sensor data is shared with Building Automation System (BAS) temperature control



Integration with the AV system enables equipment to be automatically switched off when not in use



Human-centric lighting tailors the light to circadian rhythms for enhanced productivity



PoE motorized shades automatically controlled to assist with lighting and temperature management



Automatic room scheduling Rooms are automatically marked reserved if occupied, and released if a meeting is a "no show"



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BICSI LEARNING ACADEMY

Tampa, FL, USA

The world-class BICSI Learning Academy has served thousands of individuals across the globe. In order to ensure they would be equipped to serve thousands more going into the future, substantial remodeling was required, including an overhaul of their network infrastructure. Covering about 30,000 sq ft in total, the project was completed in two phases.



Wireless relays for plug load control

reduce unnecessary electricity use by shutting off equipment when zero occupancy is detected



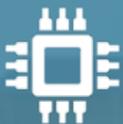
Temperature and humidity sensors

provide additional data from across the campus, enabling facilities managers to monitor different locations and identify trends about workspace conditions



Power over Ethernet (PoE) cameras

Upgrades strengthen site security for enhanced safety



400+ PoE fixtures

and over 300 gateways implemented



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NYC LAW FIRM

New York City, USA

This New York City-based law firm will occupy 640,000 sq ft over 22 floors that will incorporate Power over Ethernet (PoE) technology. By square footage, this is the largest PoE project completed in New York City.



Wide scale data collection

with wired multi sensor modules for more detailed information and better decisions



Integration with AV

turns equipment off under vacancy, saving energy and money



Integration with LED beacons

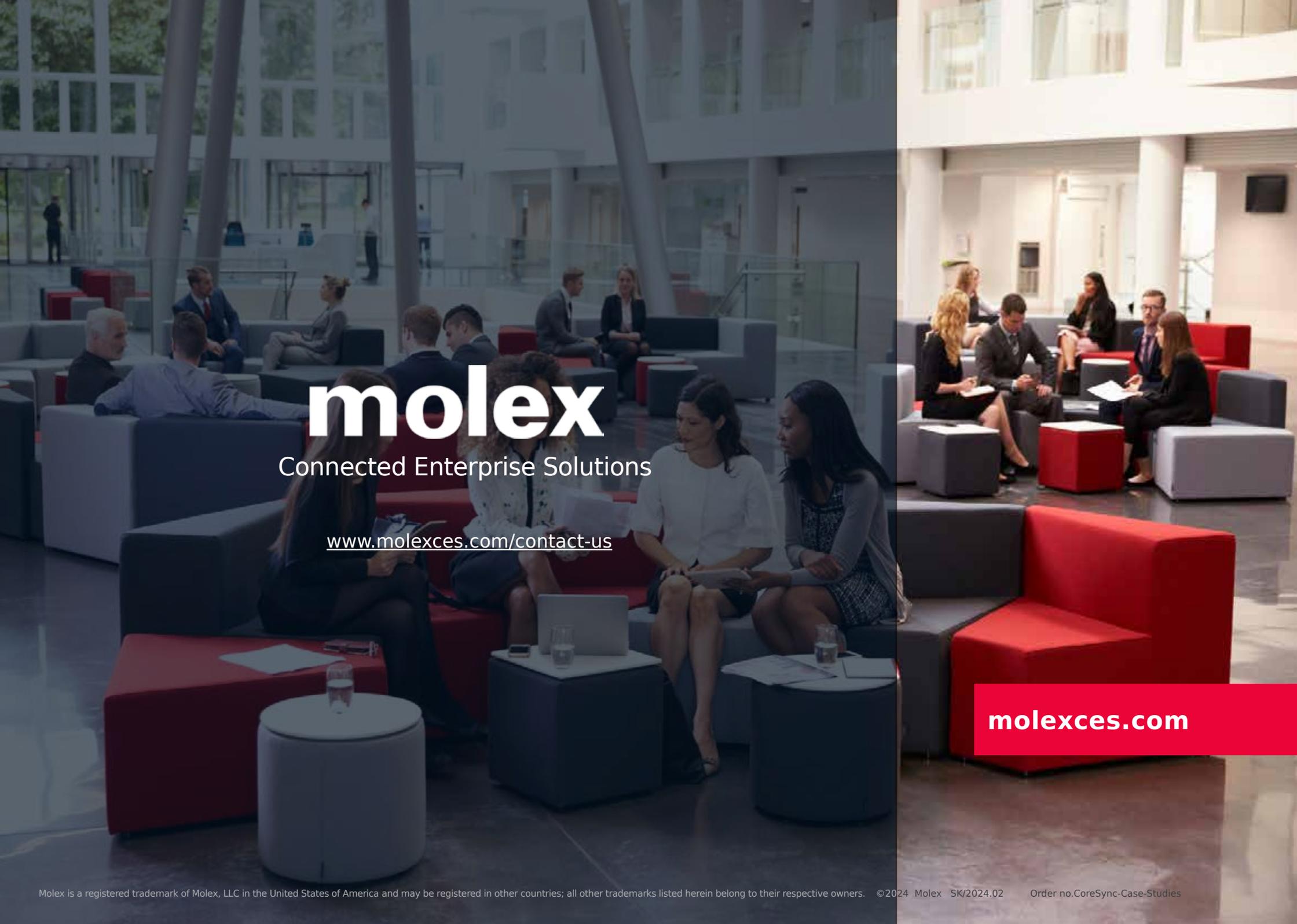
Occupancy notifications maximize effective utilization of space



Largest PoE project

completed in New York City to date

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