Enlighted



Lighting Retrofit Case Studies

A Flexible Path to Smart IoT Buildings

The Case for Retrofits

A challenging economy is driving the need for more prudent operations with imperatives for cost reductions coming from the board level. Additionally, the building sector accounts for nearly 30 percent of global energy consumption and must reduce CO_2 emissions by 45 percent by 2030 to meet future net carbon zero goals.*

At Enlighted, we specialize in cutting-edge lighting retrofits, delivering up to 90 percent energy savings for customers across industries such as manufacturing, education, data centers, healthcare, and commercial real estate.

Discover the compelling ROI our customers have achieved through Enlighted products and solutions through their own stories.

*International Energy Agency (IEA), Net Zero by 2050: A Roadmap for the Global Energy Sector, 2021; https://www.iea.org/reports/net-zero-by-2050

€ Enlighted





It's so easy to retrofit with Enlighted. We realize the lighting modernization and related energy savings now. Plus, we're all set with the sensors to take advantage of the larger HVAC energy savings as soon as we're ready.

– **Shawn Cun** Energy & Utilities Manager California State University, Long Beach

MANUFACTURING



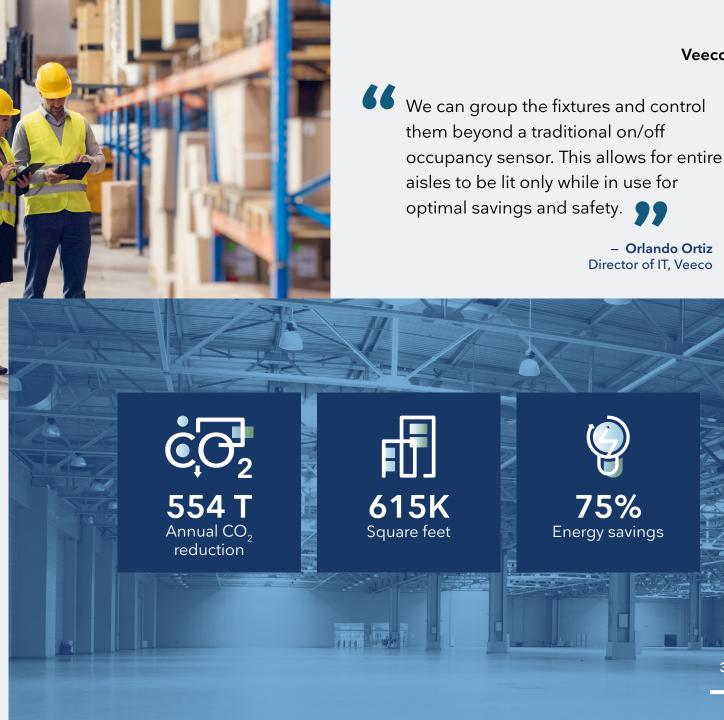
U.S. manufacturing leader reduces lighting energy costs by 75%

Highlights

€ Enlighted

Saved over 800K kWh and reduced annual energy costs by more than \$122K with Enlighted's lighting controls system

Increased employee productivity and safety while improving warehouse operations functionality



Veeco

EDUCATION

UC SANTA BARBARA

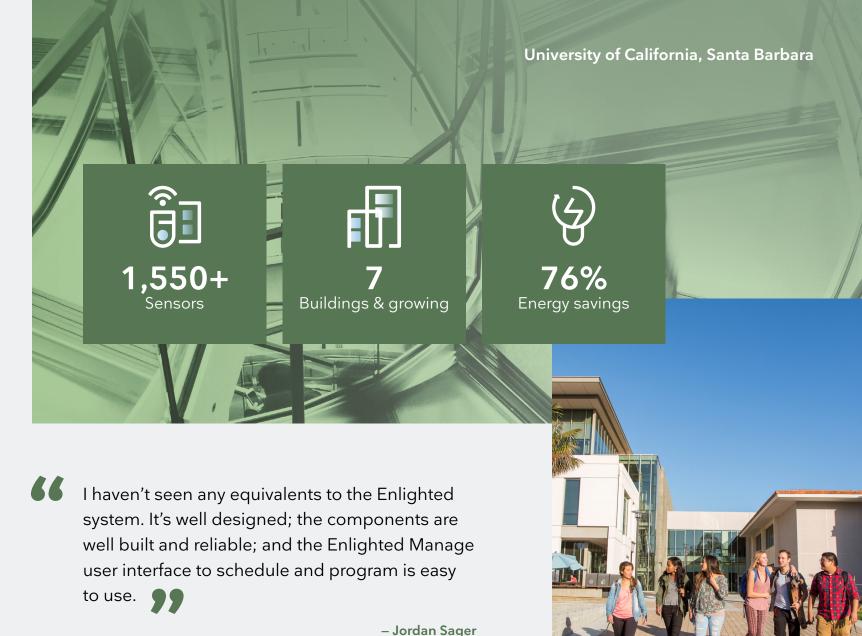
Top research university captures **76% lighting energy savings** with Enlighted's smart retrofit solution

Highlights

Created opportunities for significant reductions in maintenance and energy costs through adaptive lighting

Developed plans to implement Enlighted 's technology across five million square feet of state-operated building space to contribute to the university's long-term sustainability goals

€ Enlighted



Energy Manager, University of California, Santa Barbara

MANUFACTURING

SIEMENS energy

Siemens Energy Parsons Works lighting retrofit saves £2M in energy costs

Highlights

- Reduced lighting usage by 75% with LED upgrades
- Prevented over 1,000 tons of harmful greenhouse gases from entering the atmosphere annually
- Optimized lighting across all workspace types, including offices, training areas, and manufacturing bays with task-tuning functionality





Siemens Energy Parsons Works

We recently had an ESO Audit where we were recognized for our understanding of energy usage. The auditors were 'immensely impressed' by the improvements we have

> Mark Armstrong Head of Operations, Siemens Energy Parsons Works

> > 96%

5

EDUCATION

CSUDH CALIFORNIA STATE UNIVERSITY, DOMINGUEZ HILLS

University achieves **\$1M in energy cost savings** with Enlighted's smart lighting retrofit

Highlights

Heightened efficiency with implementation of sensor-led daylight harvesting, task-tuning, occupancy insights, and HVAC integrations

Received Top Project of the Year Award by the Environmental Leader

Standardized lighting technology across the campus to increase energy savings and comfort of students and staff

Enlighted



OFFICE

Menlo Business Park

Silicon Valley office park achieves **30% energy cost reduction** with intelligent lighting

Highlights

Retrofitted over 5,000 fluorescent fixtures with new lamps, dimming ballasts, and an Enlighted lighting control system

Installed lighting smart sensors with HVAC integration for zone-level temperature control

Improved facilities management with granular, micro-zonal temperature and occupancy data

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ENTERTAINMENT



Entertainment leader chooses Enlighted for heavyweight energy savings

Highlights

Created a smart, energy efficient, headquarters and a productive environment for WWE employees

Leveraged smart IoT lighting and data for occupancy-based energy savings and optimal space management

Developed plans to track assets, including memorabilia and merchandise in real-time for movement analysis and improved inventory management

World Wrestling Entertainment (WWE)







The new WWE headquarters is comprised of spaces intended for a variety of very different uses. The Enlighted IoT Smart Building technology will make it possible for us to realize enormous energy savings, increase our operating efficiencies, and use data to capture building activity for intelligent data-driven space decisions. IoT-based asset tracking and process flow improvements will make our headquarters truly a smart building.

> – Rajan Mehta EVP and Chief Technology Officer, WWE



Enlighted

Luton Sports Village

Successful UK sports facility achieves **85%** energy savings

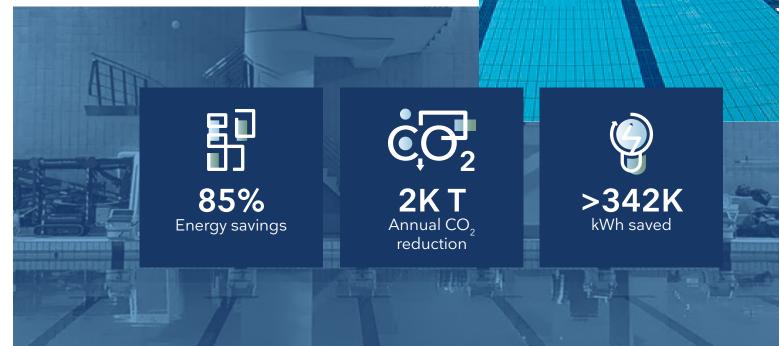
Highlights

€ Enlighted

Installed new lighting, including emergency lighting upgraded to LED, combined with a state-of-the-art Enlighted control system

Reduced number of light fittings maintained from 1,128 to 945 to optimize savings and arrange the best levels of lighting This is a great example of a project where we invested our own money to provide a better sustainable position for the organization. Those intelligent sensors could allow us to reduce further our cost base and be more efficient in the longer term.

– **Stuart Trower** Director of Operations, Active Luton



Luton Sports Village

HEALTHCARE

NHS

Retrofit increases energy performance and savings and achieves **90% energy savings**

Highlights

€ Enlighted

Increased lighting control with task tuning, occupancy and daylight harvesting with improved lighting quality and ambience

Realized IoT benefits including detailed occupancy views, utilization reporting, and real-time location services



we can tune it up or down.



– **Chris Murphy** Facilities, Project & Business Development Manager, NHS

Benefits of Enlighted Retrofit Solutions Extend Beyond Energy Savings





The LED upgrade reduced the lighting power by 75%. The Enlighted IoT controls save an additional 88% on top by constantly adjusting light output to provide perfect light levels based on the task at hand, daylight coming in from outside, and occupancy.

> Mark Armstrong Head of Operations,
> Siemens Energy Parsons Works

Unlock the full potential of a sophisticated lighting control solution with a lighting retrofit that not only helps make buildings energy efficient and lower costs but helps create an IoT-enabled system to collect robust data and insights and **ensure occupant comfort.**



Energy efficiency Daylight harvesting and vacancy detection contribute additional energy savings to already efficient LED lighting.

Productivity

Task-specific lighting and lighting scenes, paired with color temperature tuning, create ideal workspaces.



Comfort and well-being

Lighting intensity and color are automatically adjusted, ensuring occupant well-being.



Reliable wireless infrastructure A modern, wireless infrastructure is easily upgraded to IoT when ready without hardware updates.



IoT data insights

Capture real-time data, measuring temperature, light, energy consumption, and motion from every building to create valuable business insights.

Retrofit: The Path to Smart Building IoT

Discover how Enlighted can put every building on the path to become a smart IoT building with a compelling ROI retrofit program.

Enlighted is trusted by the world's largest organizations to orchestrate portfolio transformation at scale with over 1,000 customer installations in over 60 countries.

To learn more about our Lighting Solution, visit <u>enlightedinc.com</u>.



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