



PROJECT SCOPE

Economic Analysis and
Business Case Justification

Retrofit Existing Fixtures
with Smart Sensors and
LED Interoperability

Establish Isolated, Secure,
Autonomous Mesh Network
for Building Automation and
Data Harvesting

Minimize Occupant Interaction
and Disruption in Highly
Secure Environment by
Working Overnights and
Weekends

Administered Utility Incentives

RESULTS

Entire Facility is Capturing
'Big Data' Related to
Temperature, Occupancy,
and Space Use Intensity

Elaborate, Individualized
Controls on Existing LED
Fixtures Reduced Energy
Consumption by
\$10,762 Annually

\$1,030 Annual Maintenance
Savings

INDIVIDUALIZED CONTROLS IMPLEMENTATION RESULTS IN +\$10K IN ANNUAL ENERGY USE REDUCTION & SMART BUILDING RESPONSIVENESSES

PROJECT SUMMARY

Business: Multi-National Semi-Conductor & Software Design Company
Location: Austin, TX

The LED lighting system in this high-end commercial office building was already operating at high levels of efficiency. IoEnergy's task was to add a state-of-the-art technology platform for smart building responsiveness. The platform, which allows for real-time data to be turned into actionable insights for smarter decisions, assists in managing lighting, HVAC, space, and safety. More than one thousand fixtures were updated with dimming LEDs, and intelligent sensors replaced the previously existing large lighting zones with hundreds of much smaller, more manageable zones. The sensors also provide daylight harvesting options and temperature controls, giving facility managers the ability to program and customize very specific lighting levels for employees at desks, offices, and labs throughout the building.

Along with the flexible programming settings, the software includes an energy manager, in which the client can generate energy savings and consumption reports, or participate in the local utility's demand response program.



"The big data capture on this project has the potential to advance building functionality across a variety of metrics today and tomorrow, in ways yet to be innovated. While the added annual savings are a calculable way to demonstrate project success, the value in improved occupant comfort, space usage efficiency, and increased safety is useful beyond measure." -David Krueger, President & CFO IoEnergy

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