The Business Council and NYSERDA Webinar Series:

Building Operational Intelligence

Michael Reed NYSERDA

Patty Mulholland McDonald's





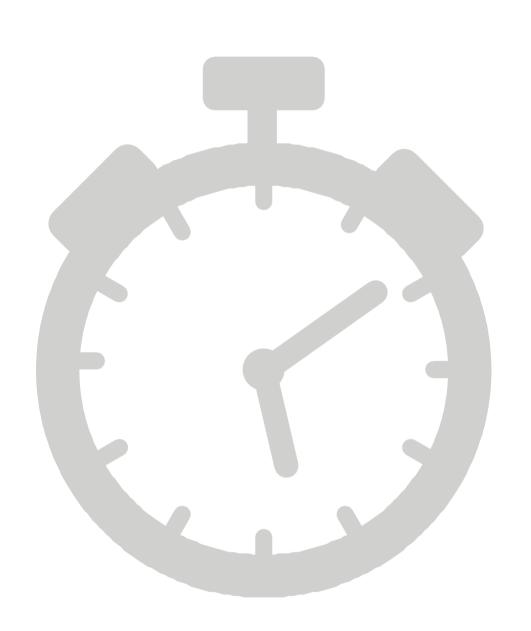


THE PROBLEM - HIGH ENERGY COSTS

- What is causing high energy costs in your buildings?
- What can be done to control costs and improve performance?

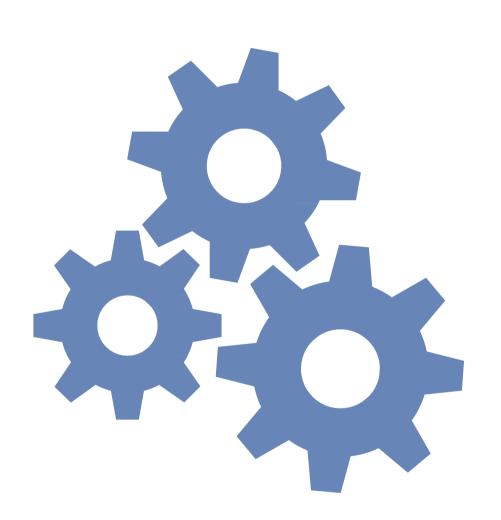
HOW CAN REAL TIME ENERGY MANAGEMENT WORK FOR YOU?

REAL TIME ENERGY MANAGEMENT

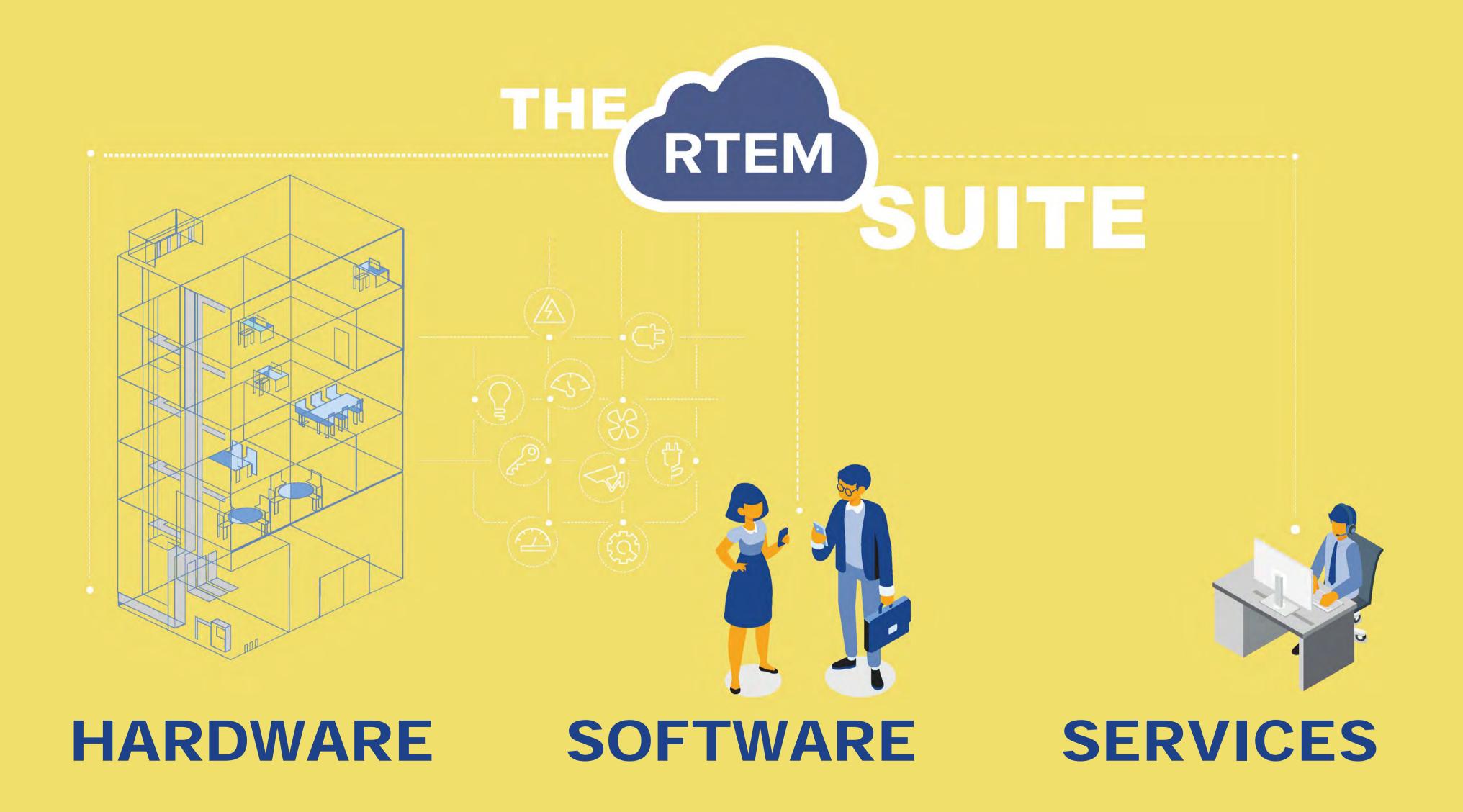


Current, continuous and historical view of building operational data.

REAL TIME ENERGY MANAGEMENT



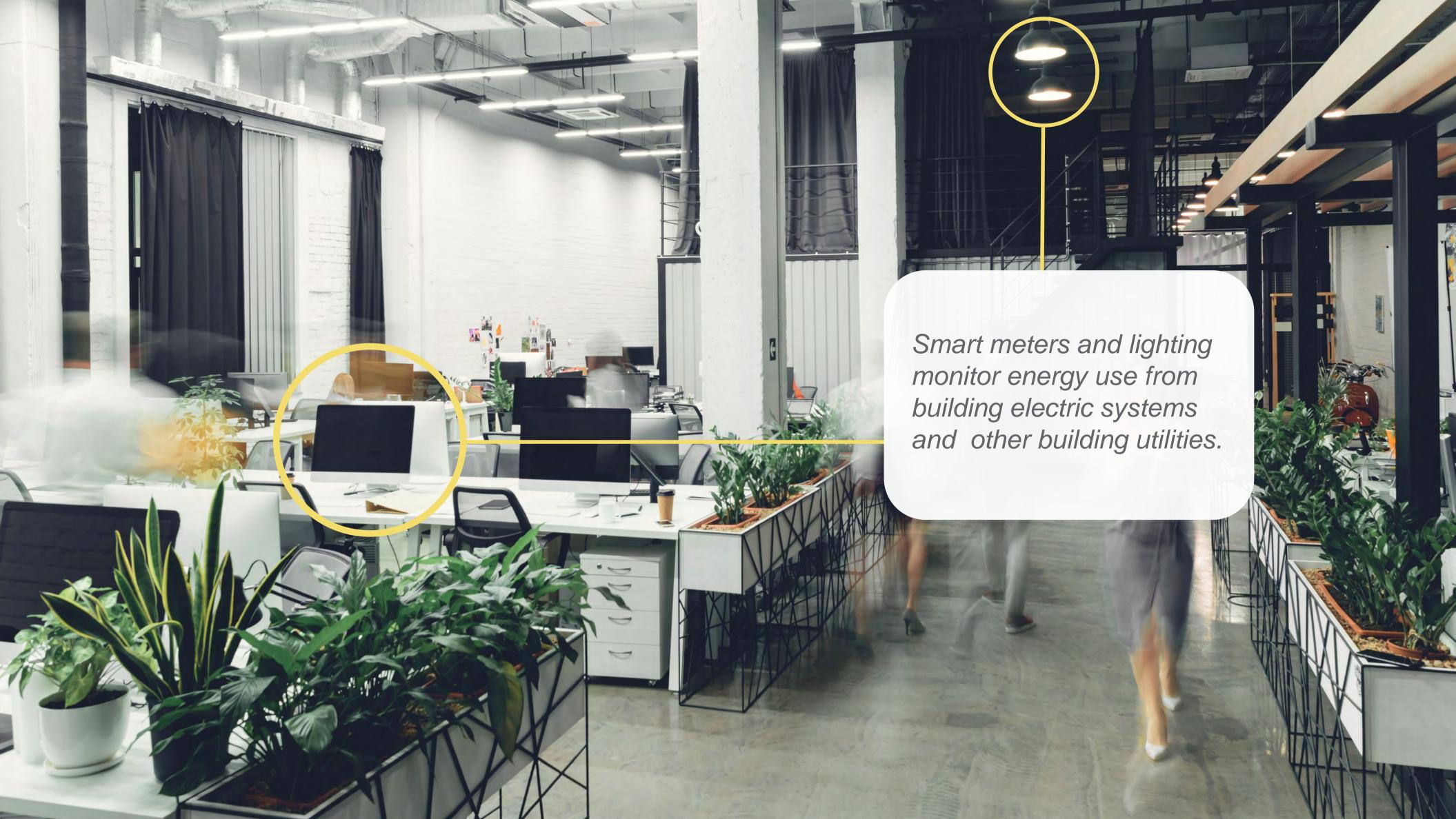
Optimizing the use of energy to maximize performance and improve the competitiveness of your business.

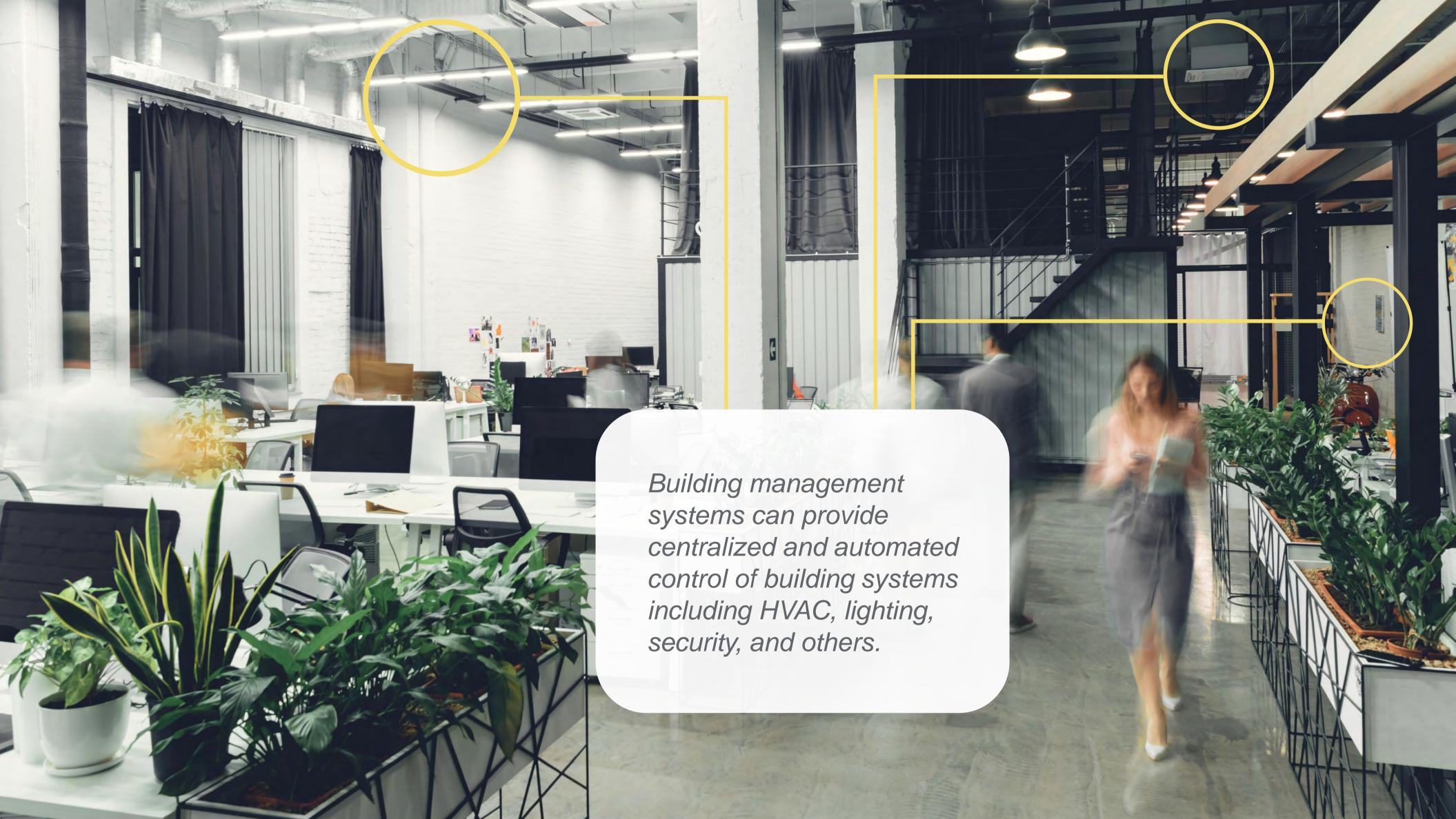














SAVE ENERGY. SAVE TIME. SAVE MONEY.

Smart building management benefits building owners, staff, and occupants.

ENERGY BENEFITS



Reduce energy waste



Avoid on-peak consumption and demand charges



Ongoing Commissioning



- Optimize scheduling and use of building equipment and plants
- Monitor building equipment performance to detect issues and identify energy efficiency opportunities
- Energy savings achieved can range from 10% to 30% annually
- Reduce on-peak energy consumption

FINANCIAL BENEFITS



Capital planning



Operational Efficiency



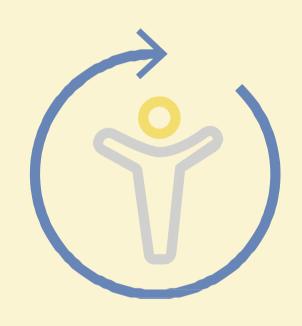
Risk management



Financial Benefits

- Automate scheduling and management of building equipment based on data analytics and forecasting
- Prevent equipment issues before they happen
- Better information for third party maintenance staff
- Greater certainty of current and future energy costs

OCCUPANT BENEFITS



Wellness, comfort, & productivity



Occupant behavior change



Attract and retain tenants

CASE STUDY - McDonald's



Project Background:

- Managing expenses is central business strategy for restaurants
- The Colley Group, a large NY based franchise, struggled to minimize energy costs, their 3rd largest business expense
- The franchise's energy costs were rising, driven in large part by demand charges on their electric utility bill
- McDonald's has ambitious sustainability goals, but local franchisees operate on thin margins with limited capital, so any effort to go green has to have a bottom-line focus

CASE STUDY - Project Details

- Partnered with JouleSmart Solutions
- No upfront cost to Franchise Operator
- Installed a Building Management System with central control at franchise HQ
- Lighting retrofits, including parking lot
- Installed Variable Frequency Drives (VFD) on heating/cooling units
- Smart thermostats integrated with the Building Management System
- Fault detection capabilities keep an eye on mechanical equipment

Questions for Patty

- Why did you decide to do this project?
- What was the process of installing this project like?
- What did you learn? Any advice for the audience?
- What did the ROI look like?
- Has the project reduced your energy costs?
- Any other benefits from this project?

PARTICIPATE IN THE NYSERDA RTEM PROGRAM

Find out which real time energy management solution is right for you.

PROGRAM DETAILS

\$30 million in incentives still available

30% project cost share

40 qualified, active vendors

Our RTEM Advisor is a free, unbiased expert who can help evaluate if RTEM is a good fit for your business

PROGRAM PROGRESS

\$14 MILLION

in incentives provided to date





across New York State



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