



Drive energy and cost savings with smart hospital technology

How cloud-based technology and real-time data are helping healthcare facilities save energy, maintenance and capital costs through sustainable energy consumption

A white paper by Intuitive MB, 2023



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Executive summary

From making sure the lights stay on in the operating room, to maintaining the perfect temperature in medication storage areas, facilities management is the backbone of healthcare. As energy shortages, aging buildings and outdated equipment drive up energy consumption and disruptive downtime, creating a safe environment for high-quality care is becoming more challenging. Soaring energy and maintenance costs squeeze margins that are already razor thin, and inefficient systems compromise commitments to sustainable energy use.

To improve energy efficiency and keep facilities running smoothly, healthcare leaders and facilities engineers need real-time insights into utilization patterns across their entire enterprise.

Intuitive MB's smart hospital technology gives facilities teams the data they need to predict, plan and put actions in place for more efficient energy consumption and asset maintenance. By capturing usage data from multiple sensors and devices, this equipment-agnostic tool helps users optimize resource utilization without compromising services. Users save on energy costs, minimize building maintenance costs and extend the service life of their capital infrastructure while reducing their carbon emissions.

This paper argues that smart hospital and medical buildings are the future of healthcare facilities management. Specifically, it shows how one major hospital network used Intuitive MB's technology to identify \$2.7 million in annual energy and maintenance cost savings and prepare to meet future demand with confidence.



Current challenges in healthcare facilities management

Healthcare facilities punch above their weight in energy consumption: they make up less than 5% of commercial buildings in the US, but are responsible for more than 10% of total energy consumption in the sector.¹ Almost two-thirds of energy consumption in healthcare systems occurs in hospitals, largely attributable to energy intensive equipment and 24/7 operations. Consequently, failure to optimize energy consumption has far-reaching effects on operating costs and carbon emissions.

Beyond the financial and environmental challenges, facilities must also respond to the changing operational landscape in healthcare delivery. Staffing shortages, new technology and changing regulatory requirements call for a more sustainable approach to the utilization of buildings and equipment.

The financial challenge

- Hospitals spend over \$10 billion on energy each year, often accounting for 1-3% of a facility's entire operating budget.²

Managing energy costs is critical to healthcare delivery. Volatile energy markets leave healthcare facilities vulnerable to energy shortages, disruption to supply and escalating prices. Unfortunately, tight margins leave little room to accommodate increasing costs without compromising care. The challenge will only escalate as demand for healthcare services increases, further raising the energy demand.

Additionally, many healthcare facilities have an aging infrastructure, with equipment and buildings that are inefficient and expensive to maintain. A “*break-fix*” mentality results in reactive repairs, rather than proactive, cost-effective and energy-efficient solutions. Heating, ventilation and air conditioning (HVAC) systems account for around half of hospital energy consumption, but piecemeal upgrades mean these systems are not always designed with overall energy efficiency in mind.

Budget constraints limit investment in new technology, but hesitation could prove expensive. Smart short-term investments can have a long-term pay-off, through energy savings, reduced downtime, lower labor costs, and longer component lifecycles that minimize capital investment over time.

- The US Department of Energy estimates that preventive maintenance can reduce energy and maintenance costs by 18%, while predictive maintenance can reduce costs by a further 8-12%, saving almost a third compared to a reactive approach.³

¹Bawaneh, K. et al. (2019) Energy Consumption Analysis and Characterization of Healthcare Facilities in the United States, *Energies*, 12(19): 3775

²Kaplan, S. et al. (2012) Can Sustainable Hospitals Help Bend the Health Care Cost Curve? in November 2012 Issue Brief from The Commonwealth Fund

³US Department of Energy (2010) Operations and Maintenance Best Practices, Chapter 5: Types of Maintenance Program



The sustainability challenge

- Healthcare accounts for nearly 5% of global emissions⁴ and the US healthcare system contributes more than any other.⁵

As major contributors to global carbon emissions, healthcare facilities (and their supply chains) have a responsibility and opportunity to lead the way in environmental stewardship. Reducing emissions is also a public and patient safety issue: estimates put indirect health damage from pollution in the US on the same scale as deaths from preventable medical errors, challenging the Hippocratic commitment to “do no harm.”

As a result, consumers, investors and government bodies are increasingly expecting healthcare facilities to act. Many facilities have committed to carbon-neutral or net-zero targets as part of their environmental, social and governance (ESG) goals. In 2022, 61 of the largest healthcare organizations in the US (including over 650 hospitals) signed up to the Health Sector Climate Pledge, committing to reduce emissions by 50% by 2030.⁶ Achieving these ambitions will be impossible without a strategic approach to energy management.

Switching to renewable energy sources is an important part of the emissions reduction puzzle, but hospitals are facing an immediate concern of resolving the double digit increase in utility costs and the recent rapid escalation of reactive maintenance and capital replacement costs.

⁴Boyd, P. et al. (2021) The Case for Net-Zero Health Care, NEJM Catalyst

⁵Eckleman, M. et al. (2020) Health Care Pollution And Public Health Damage In The United States: An Update, Health Affairs, 39(12)

⁶The White House (2022) Fact Sheet: Health Sector Leaders Join Biden Administration’s Pledge to Reduce Greenhouse Gas Emissions 50% by 2030

⁷US Department of Health and Human Services (2022) HHS Launches Pledge Initiative to Mobilize Health Care Sector to Reduce Emissions

“Reducing emissions and fighting climate change’s catastrophic and chronic impact on vulnerable people is key to building a healthier nation.”

Xavier Becerra, US Secretary of State for Health and Human Services⁷

The operational challenge

At the operational level, these economic and environmental drivers often bump up against each other. A facility manager may be asked to contribute to ESG targets, while also extending the lifespan of decades-old air handling units – and at the same time drive down overall maintenance spend. Facilities teams have also been hit hard by staffing shortages seen across the healthcare sector.

In a 2019 survey, the American Society of Health Care Engineering (ASHE) found that two-thirds of respondents had been working in their field for more than 15 years, adding to the perception of a “graying workforce.”⁸ As a generation of experienced engineers draws closer to retirement, there is a lack of new candidates coming through to replace them. Stricter regulations, increasing workloads and higher salaries in competing fields are obstacles to recruitment and retention. Smaller facilities teams must do more with less, and proactive maintenance often takes a back seat.

Efficient management of buildings and equipment can support future planning to ensure that healthcare facilities remain resilient and adaptable to meet the changing demands of patient care and ensure the safety and wellbeing of patients and staff.

⁸Fink, C. (2019) Solving the Recruiting Puzzle, Health Facilities Management

⁹Squire, M. et al.(2021) Modeling hospital energy and economic costs for COVID-19 infection control interventions, Energy Build, 242:110948

¹⁰Shajahan, A. et al. (2019) Effects of indoor environmental parameters related to building heating, ventilation, and air conditioning systems on patients' medical outcomes: A review of scientific research on hospital buildings, Indoor Air, 29(2): 161–176

The patient safety challenge

Ultimately, hospitals exist to deliver care to patients. Energy management and maintenance may not be top of the list when it comes to improving clinical care, but they can have life or death implications. Several studies⁹ point to the impact of a hospital's built environment on patient outcomes:

- Air quality and HVAC parameters affect infection transmission risk, patient comfort and recovery.¹⁰
- Poor lighting and temperature control can increase the risk of diagnostic errors.¹¹
- A single system failure can cause massive disruption: for example, a broken boiler at a New Hampshire hospital led to the evacuation of over 40 patients.¹²

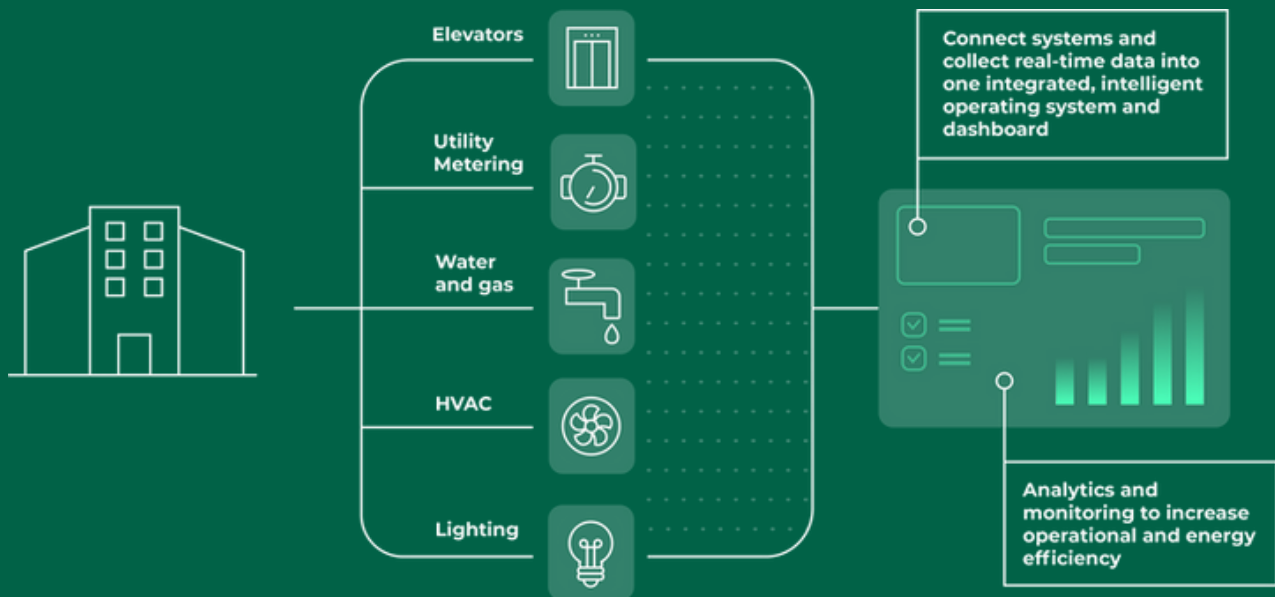
Investing in smarter building management systems not only delivers energy and cost savings, but can create a safer environment for patients and staff.

¹¹Gonzalez, A. et al. (2018) A quantitative analysis of final energy consumption in hospitals in Spain, Sustainable Cities and Society, 36:169-175

¹²Jarvis, C. (2019) Aging hospitals aren't ready for the technology revolution, Salon



Optimizing energy usage and building management: from “why” to “how”



To optimize energy usage and keep facilities running smoothly, engineers need to know how buildings and equipment are being used. Insights into energy and equipment usage can also indicate performance issues, and flag priorities for servicing and repair.

Building automation systems (BAS) provide basic data analytics and alarming to help facilities identify ways to save energy and even reduce maintenance costs. However, these systems are often for general application, and not designed to handle the unique challenges of the healthcare environment. Integration issues with legacy and third-party equipment mean hospitals and medical buildings end up using multiple systems to manage their facilities.

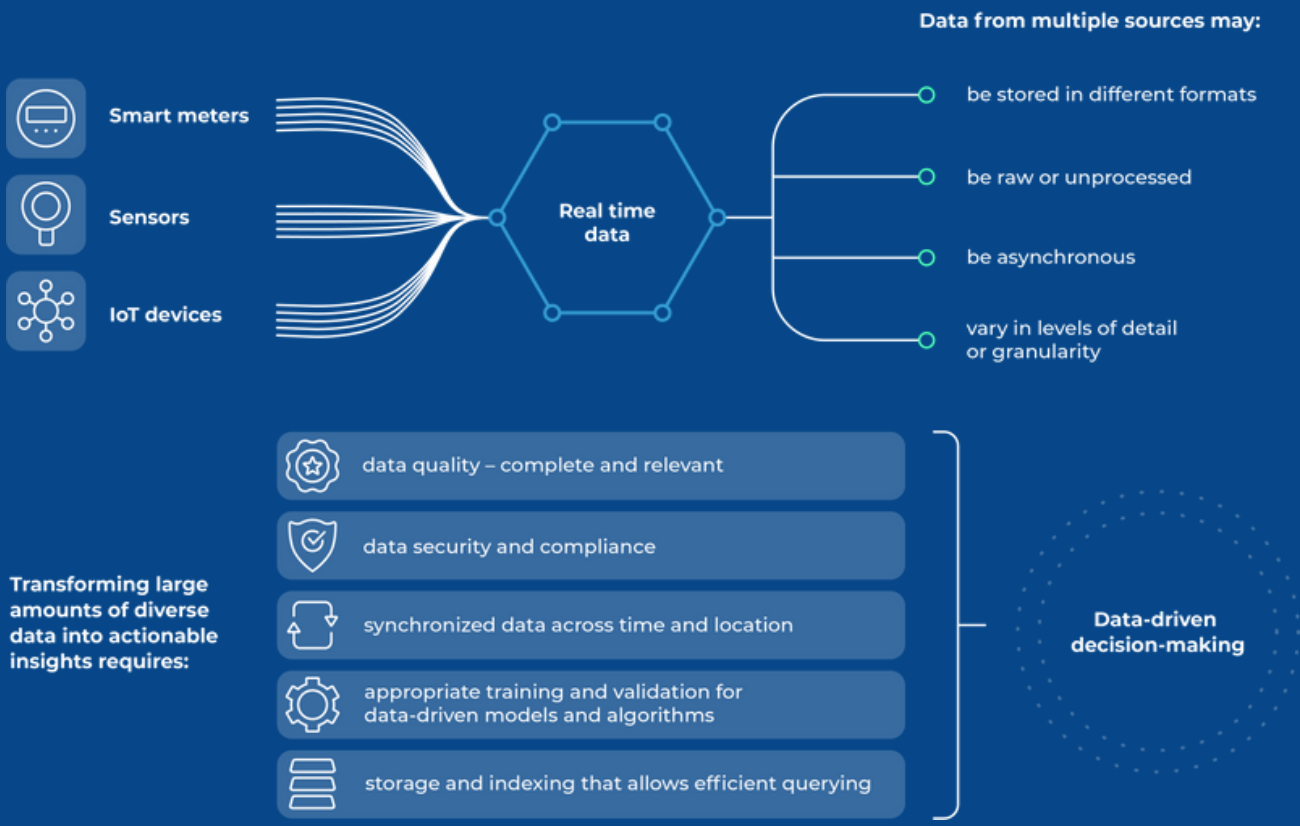
Staff must log into multiple platforms to monitor and maintain utility metering, HVAC, elevators, lighting, water and gas, using data systems that don't communicate with each other. This creates a fragmented understanding of the facility, offering siloed insights instead of a comprehensive overview. As a result, managers must deal with inefficiencies, errors, missed opportunities, and avoidable increases in energy usage.

In addition, maintenance contracts may incentivize manufacturers to recommend replacement of faulty equipment rather than repair, further adding to maintenance costs and capital equipment expenditure.



Collating real-time data on energy usage¹³

Smart meters, sensors and Internet of Things (IoT) devices can generate a wealth of information for facilities teams. But how can they make the most of this data to extract meaningful information for data-driven decision-making?



Cost savings of over 10%

Smart hospitals that implement digital technologies to improve care quality, patient experience and operational efficiencies could realize cost savings of more than 10% over overall annual healthcare expenditure.¹⁴

¹³Bhatterai, B. et al. (2019) Big data analytics in smart grids: state-of-the-art, challenges, opportunities, and future directions, The Institution of Engineering and TEchnology Smart Grid, 2(2): 141-154

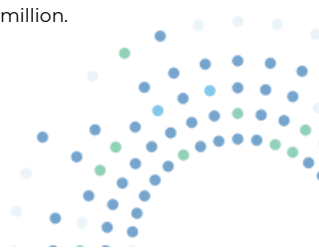
¹⁴Chen, B. et al. (2019) Finding the future of care provision: The role of smart hospitals

¹⁵NHS England (2022) Delivering a 'Net Zero' Health Service

Annual savings of more than \$150 million

In October 2020, NHS England became the world's first health service to commit to reaching carbon net zero by 2045. Real-time monitoring and control, including the use of AI, is expected to contribute to 2.3% of the target carbon emission reduction, and generate a net annual saving of more than \$150 million*.¹⁵

*Figures reported in GBP, amounting to £120 million.

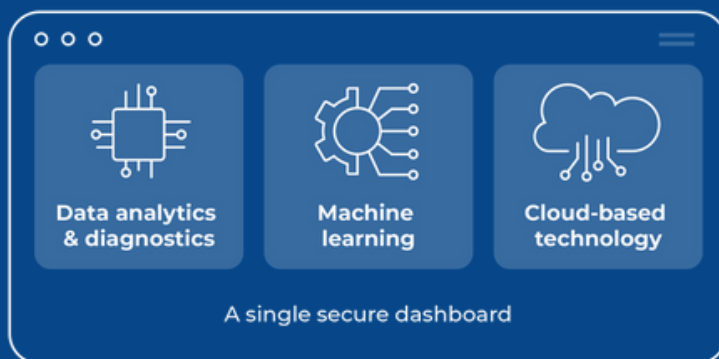


Intuitive MB: developing the next generation of hospitals and medical buildings

Intuitive MB's smart hospital technology gives facilities teams the data they need to predict and plan for more efficient energy consumption. It harnesses the power of data analytics, diagnostics and cloud-based technology to manage all hospital and medical building assets from a single secure dashboard. This allows facilities to save energy, reduce maintenance costs, improve environmental performance and build operational resilience.



Predict and plan for more efficient energy consumption



Save energy

Reduce maintenance costs

Improve environmental performance

Build operational resilience

Save +20% on energy costs per year

Save +30% on building maintenance costs per year

The technology is brand-agnostic and does not require any changes to the existing building infrastructure or assets. It connects to any building management system through an on-site gateway that can be installed in 1-2 days. These secure gateways and sensors capture the necessary data and provide 24/7 reporting, monitoring and even automated remote adjustments through cloud platforms – regardless of the equipment being used.

A proactive, predictive and prescriptive approach to managing a facility – without changing any existing equipment

Asset consolidation

Consolidating data from all hospital systems and networks into a single, user-friendly dashboard, Intuitive MB helps facilities manage disparate systems, regardless of manufacturer. By creating a “digital twin” of a hospital’s data, Intuitive MB technology can read data, generate reports, write back to devices, and optimize performance without touching the original data. Through this secure, risk-free protocol, hospitals can see the efficiency, usage and health of an entire system or drill down into the performance of individual assets.

24/7 support and monitoring

Intuitive MB monitors everything from air quality to lighting to security systems, consolidating assets through a single, intelligent operating system. Alerts catch inefficiencies and malfunctioning equipment, so they can be addressed before they become failures or compliance issues, and most alarms and adjustments can be made remotely. Comprehensive, customizable desktop and mobile dashboards give staff real-time insights into system performance. Increased visibility and adjustments improve asset life, reduce downtime and improve the patient experience.

Energy and maintenance savings

Using data collected from across the facility, Intuitive MB optimizes usage of all equipment and assets. Energy will be used more efficiently, building system failures can be prevented, and equipment and controls will last longer. Facilities can reduce emissions, improve staff efficiency and make better use of space, while reducing energy and maintenance costs.

ESG reporting

Intuitive MB helps hospitals reduce their environmental impact, demonstrate social responsibility, and generate insights for data-driven leadership. Optimized systems reduce energy consumption and minimize buildings’ environmental impact, while safer and more efficient buildings improve patient and staff wellbeing. Specially-designed reporting tools allow facilities to demonstrate their commitment to ESG values to consumers, investors, donors – and attract the best up-and-coming talent.

See it in action >>

Case study: how a large network of hospital facilities generated energy and maintenance savings with Intuitive MB smart hospital technology

A major US hospital network used Intuitive MB’s smart healthcare property technology to improve the operational efficiency of its facilities, with a focus on reducing energy consumption, equipment maintenance and repair costs. To demonstrate the scale of potential energy and cost savings, Intuitive MB connected 8 sites across 4 states.

The result:

Q1 2023

Optimize assets across all sites by end Q1 2023

\$2.7m

\$2.7m annual cost savings opportunities

23.6m kWh

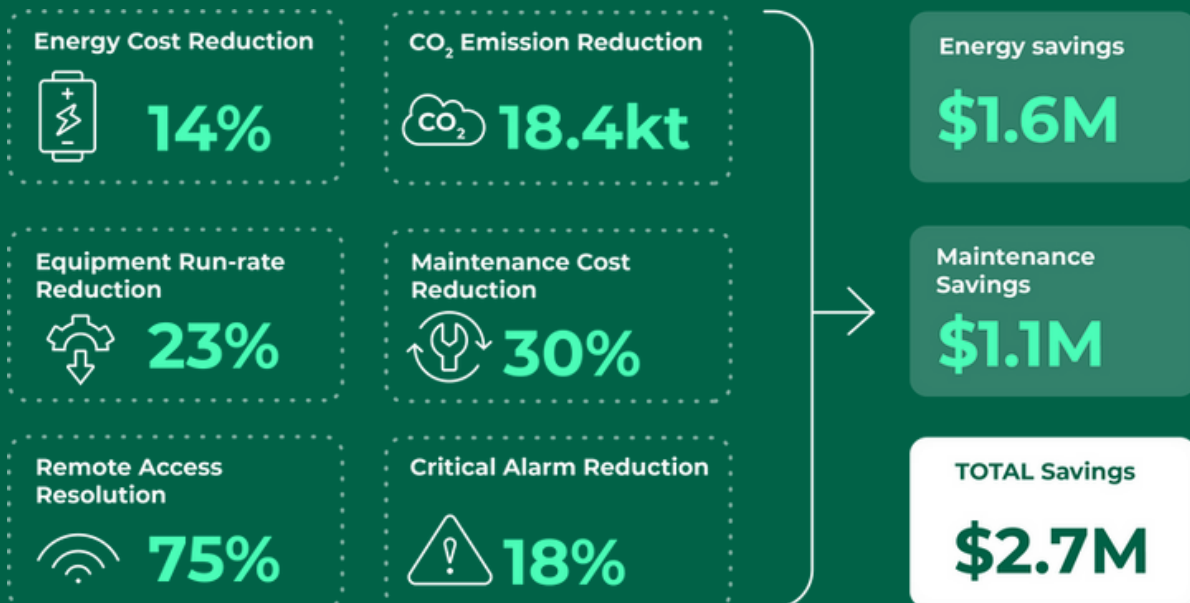
23.6m kWh annual energy reduction (equating to reduction of 18.4kt tons CO2 emissions)

The challenge:

- Access better analytics and use vast amounts of data more effectively
- Reduce energy consumption

Scope of connected equipment:

- 6 hospitals, 1 medical warehouse, 1 medical lab
- 3 different building automation systems
- 48,993 total connection points
- 800+ real-time energy metering sensors



**Control system 1:
Schnieder Electric
EcoStruxure**

**Control system 2:
Johnson Controls
Metasys**

**Control system 3:
Siemens Apogee
Insight**

- 21 boilers
- 6 domestic hot water units
- 9 computer room air conditioning units
- 29 chillers
- 31 associated chiller equipment
- 246 primary ventilation units (AHU, MAU, RTU, CSV)
- 3162 terminal units



“As a big organization, we have a variety of building automation systems, each with their own vertical view of their information. Having to log into three separate system platforms to see what’s happening across the enterprise is not very effective. We wanted an agnostic application that could bring all this information into one view so we could compare our facilities. Intuitive MB was able to do that. It’s a full tech solution that integrates with IoT devices, legacy data and third-party apps. We chose to partner with Intuitive MB because they could help us move toward a holistic way of capturing and analyzing our data in a customizable way.”

VP of Engineering & Facility Management
– Health System

Demonstrating proof of value

For the pilot, the technology was implemented across multiple facilities with diverse systems, datasets and devices, to demonstrate the potential impact in a variety of settings.

Intuitive MB set up each gateway using a read-only “digital twin,” so the health network could see the technology in action with no real-world risk. Current and legacy data was extracted from building automation systems and incorporated into an isolated virtual local area network (VLAN), so users could test the platform’s ability to analyze and predict energy and asset utilization in a safe and secure way.





“Some BAS systems take significant training before you can use them. But this was very intuitive. It’s built around the real world of how healthcare facility managers actually operate facilities, not how somebody outside the industry thinks it should be done.”

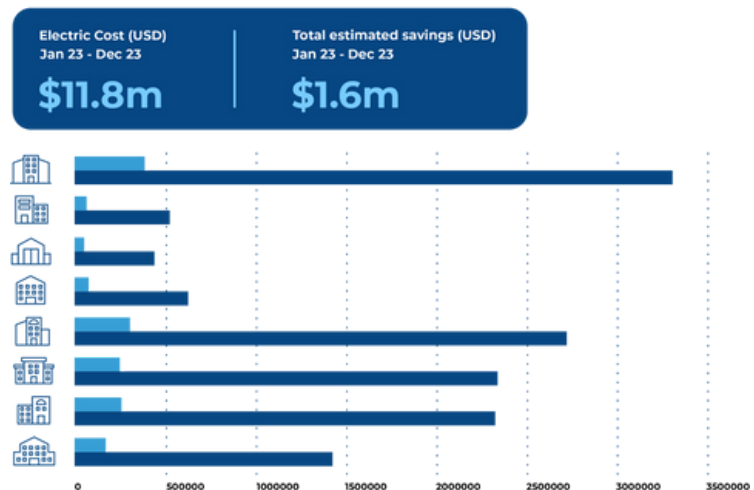
Director of Facility Management – Healthcare Facility

Key outcomes

1. Estimated energy cost savings of \$1.6m

With Intuitive MB’s Intelligent Building Operating System sitting above their existing infrastructure, the health network could manage assets and energy usage more effectively. Dramatically reducing energy usage generated significant cost savings while accelerating the client’s efforts to reduce CO2 emissions. This led to initial estimated electric cost savings of 10.8% over a 12-month period.

Energy consumption, cost & estimated savings



SPOTLIGHT

Reducing energy consumption in the warehouse facility by 20%

The health network’s warehouse facility set a target to reduce energy costs by 20% at current utility rates by reducing energy and maintenance demand. Additional savings are expected as utility rates increase and warehouse operations expand.

Multiple systems were integrated using Intuitive MB’s smart building platform, including:

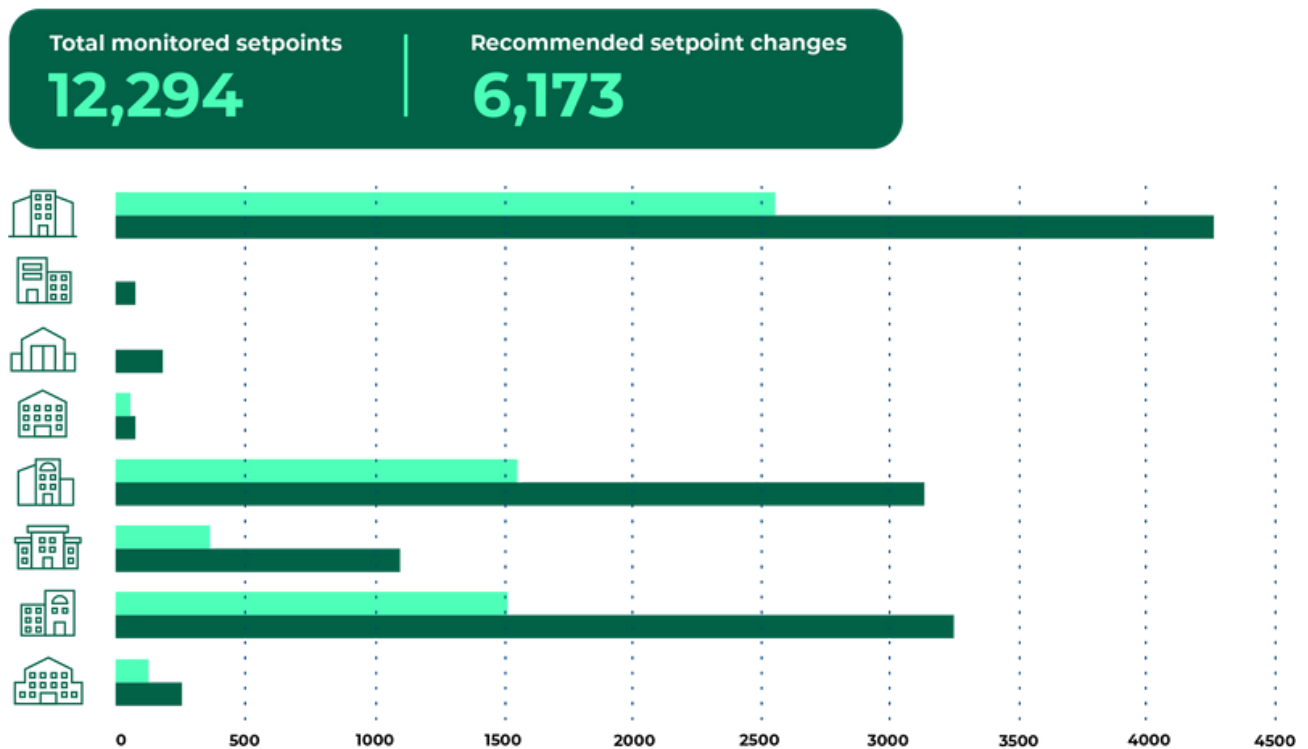
- Sensoscientific temperature and humidity controls to monitor specific spaces and maintain regulatory compliance
- BAS covering 36 roof top cooling units (RTUs)
- Hot Drops and Volt Drops, which monitor real-time energy usage by RTUs.

The platform enabled the facility to triage temperature and humidity sensors to maintain compliance with medical storage requirements, and optimize operational performance and energy consumption of the RTUs. The engineering team discovered they could rely on just 50% of their RTUs to maintain temperature and humidity controls, while reducing overall equipment run time and energy consumption.

2. Improvements to operational efficiency, including more than 6000 recommended setpoint changes

With integrated control systems, the facilities could increase building efficiency by optimizing asset usage. Predictive and preventative maintenance could extend the lifecycle of equipment, removing or at least postponing the need for expensive replacements.

Estimated performance changes



“Facilities teams don’t always have much time to look at setpoints, but we can pull that information together for them. As we get under the hood, we can make recommendations for setpoint changes that lead to more efficient use of equipment. Generally, the more setpoint changes we recommend, the greater the improvement.”

Paul Warren, Senior Field Engineer, Intuitive MB



SPOTLIGHT:

Optimizing hot water boilers in acute care facility

One of the hospitals included in the pilot was a 420,000 square-foot acute care facility in Florida. Analytics revealed a shortfall in the performance of the condensing boilers alongside excessively high temperatures in the hot water system. Intuitive MB worked with the original equipment manufacturer to reprogram the boiler operating system, to improve boiler performance and remove the risk of high temperatures. The resulting energy savings reduced gas consumption and extended the safety and lifecycle of the boilers.

Data analysis also uncovered overuse of reheat valves on many air terminal units. Inconsistencies between the position of reheat valves and required air temperatures meant that valves were activating the two heating water boilers unnecessarily, causing localized temperature issues and stalling boiler maintenance. Intuitive MB worked with the facility to limit the position of the reheat valves and enable boilers to be taken offline for preventative maintenance, without compromising overall performance. Removing the need to run two boilers at once has reduced energy demand.

The health system's VP Engineering notes that each operational improvement leads to additional opportunities to optimize equipment performance:

"I could tell the boilers weren't working right and figured we could make around 30% savings. With Intuitive MB, you solve a problem and you see an improvement. But then it cascades and reveals another problem that you couldn't see, which was masked by the original problem. We realized we had to add a new burner diffuser, repair some steam traps, work on setpoint pressure, and then work on lead-lag sequencing. With data continually coming in, you're seeing how you're moving the needle in the right direction. Right now, we're at 20% savings, so we still have 10% to go but we know what we need to do to get there."



How improving operational efficiency through a single platform addresses staffing challenges

Maintenance teams

- Facilitates preventative and prescriptive maintenance, reducing the need for a reactive “break-fix” approach and allowing teams to prioritize highest return opportunities
- Increases productivity by addressing problems in advance and often handling them remotely, saving time and allowing for more efficient allocation of staff
- Helps address current staff shortages by utilizing technicians at a more advanced and effective level, justifying higher pay and improving talent acquisition and retention

Clinical teams

- Enables clinicians to focus on patient care by reducing distractions caused by multiple screens, checklists, log-ins and alarms
- Helps clinicians distinguish signal from noise by minimizing alarms, allowing them to quickly identify patient emergencies or equipment requiring attention
- Assists in monitoring healthcare spaces, such as recording when an operating room (OR) is in use and making sure lights are turned on or off as needed
- Streamlines processes and reduces staff input through automation

3. Saved more than 2,200 man hours utilizing data analytics and diagnostics to enable alarm monitoring and compliance

In addition to improving operational efficiency and asset performance, Intuitive MB technology also helped facilities identify and respond to potential compliance breaches.

Temperature, air pressure and humidity must all work in harmony to create a safe environment. This is especially important in the operating room, where failures can negatively affect patient outcomes, result in breaches that can lead to fines, and even result in the OR being shut down. Intuitive MB aims to give facilities teams as much visibility as possible, bringing together data into a single dashboard. Remote monitoring by Intuitive MB's Smart Service Center utilizes data analytics and diagnostics to forecast potential issues and provide recommendations.

During the pilot, Intuitive MB recorded more than 2000 incidents relating to variation from the ASHRAE Standard 170-2017 (Ventilation of Health Care Facilities). The majority were temperature issues related to seven units.

Critical alarm monitoring helped facilities quickly fix any issues that might be at risk of non-compliance, as well as minimizing downtime and avoiding high-cost emergency repair callouts.

Operating room



Comfort level



Number of breaches

2,049

OR room compliance

11,140

Comfort level

25

Humidity

686

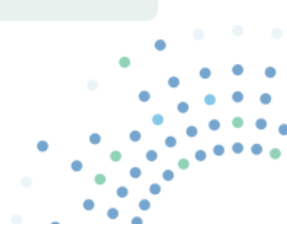
Humidity

2,024

Temperature

10,436

Temperature



4. Visualization and management of all building assets through a single pane view

Intuitive MB’s technology allows asset-level benchmarking, reporting and control across all buildings. Because the platform is equipment-agnostic, users are no longer tied-in to the equipment vendors’ proprietary systems and maintenance. For the health system, having a “one-to-many” platform that links multiple devices and datapoints in a single view was a major advantage.

For example, at one of the acute care hospitals in Florida, data showed that a boiler was cycling on and off every minute. This was clearly inefficient and would eventually wear out the equipment. Finding usage patterns from multiple sensors helped uncover the problem and anticipate failure risks so they could be addressed. With the ability to compare data from multiple sensors at once, maintenance teams could distinguish a systemic issue from a faulty sensor – and save a significant amount of dollars and staff-time by avoiding an unnecessary replacement.

“Most facilities managers are only using a fraction of the data created by their building automation systems because they lack a process to pull out actionable information. Data can be coming from different platforms and systems, making analysis difficult. With this technology, you get the macro and micro view of your data.”

VP of Engineering & Facility Management
– Health System

“What you’re able to do with real-time monitoring is pinpoint the best place to spend your capital dollars. It’s the 1-10-100 rule in practice. A typical air handling unit might cost \$1 million. With this data, we’ve been able to invest only a third of that to extend the service life of the unit by another ten years.”

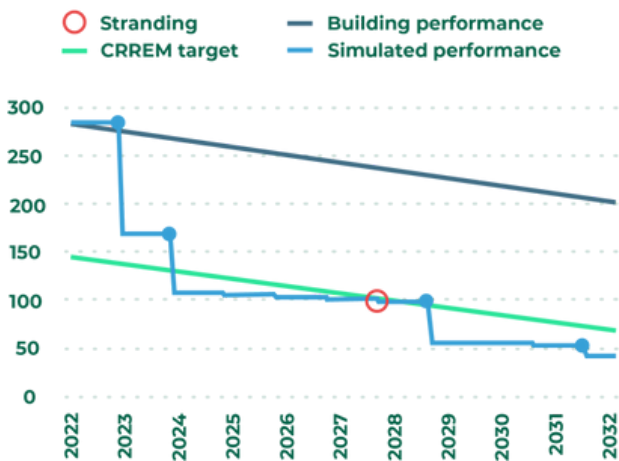
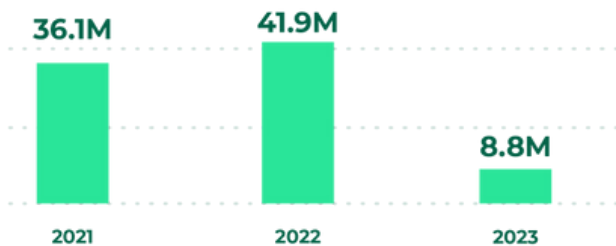
VP of Engineering & Facility Management
– Health System



5. Intuitive carbon pathways reduce emissions and provide evidence of an ESG commitment

Improving energy efficiency reduced the facilities' energy consumption by 23.6m kWh and reduced CO2 emissions by 18.4k tons.

Carbon dioxide - Total - Absolute



SPOTLIGHT

Enhancing energy efficiency of water system in hospital facility

In one of the network's acute care hospitals in Tennessee, Intuitive MB noticed a low deltaT between the supply and return chilled water temperatures in the coils of several air handling units (AHUs). This prompted a recommendation to install Belimo Valves for a more efficient heat exchange across the coil and eliminate overflow. When the temperature sensors recorded a lower temperature differential, the valves closed, slowing the flow of water. With this small investment, the facility has reduced the amount of energy needed by the chiller by 20%.



“Demonstrating good environmental stewardship is important. In our facilities, we’re focusing on energy conservation – reducing greenhouse gas emissions by saving energy. If we improve operational efficiency, we’re consuming less energy, then we can augment that with renewable energy and perhaps even microgrids later. But the priority is for our buildings to be working well.”

VP of Engineering & Facility Management – Health System



What's next?

After seeing the success of the initial test period, the healthcare network plans to roll out Intuitive MB's smart technology to additional facilities.



“Working with Intuitive MB has been great. It’s one thing to implement new software, but it’s another to have a coach by your side to help you get the most out of it. That’s what Intuitive MB has done. The three strong points are energy savings, maintenance optimization (and in turn cost savings) and capital effectiveness. We’ve seen enough value so far that we’d be confident about implementing it in other facilities, too.”

VP of Engineering & Facility
Management – Health System



Next steps to create *your* smart hospital building

What does the set-up look like for installation of Intuitive MB technology?

- 01** An Intuitive MB engineer arrives at your building for a scheduled installation. With minimal guidance, they connect a gateway and real-time energy metering sensors to the hospital systems and major assets, capturing all the relevant data and bringing it to a single point of control.
- 02** All of the data points are mapped into a common “digital twin” data model. None of the original information is modified in any way. Your Intuitive MB dashboard goes live within the first 4-8 weeks, giving each user 24/7 access to real-time data in your facility.
- 03** Utilizing machine learning through data analytics and diagnostics, the Intuitive MB system continues to self-improve, generating several thousand points of data. Facility managers get 24/7 monitoring and management of alarms and system performance, which can be addressed either remotely or on-site.
- 04** A dedicated Intuitive MB Field Engineer will partner with your facilities management team to make recommendations, prioritize the highest return opportunities, and drive action that provides quantifiable results using the analytical data from the client dashboard.

- ✓ easy set-up
- ✓ demonstrable security protocols
- ✓ ongoing support
- ✓ quantifiable results





“With this technology, the buildings talk and we listen. Our goal is to give engineering teams their time back, so they can forecast energy and asset usage and plan accordingly. If there’s a problem, the data will guide you to the optimal course of action. To make sure no opportunities for efficiencies are missed, each account has a dedicated Intuitive MB Field Engineer with field experience available to help with set-up, training and ongoing implementation. They’re an expert sounding board for those complex maintenance and repair commissioning decisions.”

VP of Engineering & Facility
Management – Health System

Smart hospitals are the future of healthcare facility management

By leveraging the power of machine learning, Intuitive MB's operating system gets more efficient the longer it runs. More data means more efficiency. And that means more energy and cost savings for your facility.



“Just as a doctor measures the patient’s vital signs, we want to help you do the same with the building. Intuitive MB’s platform interrogates real-time data to forecast usage so teams can predict and plan to save energy and improve asset performance, rather than waiting for something to break. Instead of treating your equipment’s “ailments,” our technology gives you a prescription to optimize your buildings’ overall health.”

Steven Simpson, Founder and CEO,
Intuitive MB

Arrange a demo today

Contact us to arrange a presentation and live demo of the platform and dashboards. Our team will walk your key stakeholders through the product solutions and technology so you can see how smart technology could generate energy, maintenance and time savings for your organization.

Kyle Willis,
Chief Development Officer

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About Intuitive MB

Intuitive MB is a smart hospitals platform focused on energy management that uses Internet of Things (IoT), Data Analytics and Diagnostics, and Machine Learning to create "Smart Hospitals and Medical Office Buildings." It allows any medical building, old or new, to become "Smart Ready" in approximately four weeks. The company's proprietary monitoring technology is always connected, giving real-time insight and support to the facilities management team for better overall building operations.

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