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## Wise Building (WiseBldg)

# Smart Energy Management and Control for Small and Medium Commercial Buildings



### Robust IOT platform

Affordable device level secure control which pays for itself within 2-3 years without proprietary hardware makes it well suited for smaller buildings



### Single Pane of Glass

WiseBldg can discover and control a wide variety of electric loads and IOT devices including HVAC, lighting, solar PV, security cameras through a single UI



### Smart Occupant Comfort

Proprietary machine learning algorithms leverage buildings own historical data to automatically manage energy while increasing occupant comfort



### Remote Management

Building owners/operators can securely monitor and manage energy and IOT devices across multiple buildings via the web or smartphone apps

## Get to know WiseBldg

WiseBldg is a powerful, affordable, open-architecture software platform for monitoring and control of major energy systems (e.g., HVAC, lighting and plug loads), as well as security cameras, solar PV systems, energy storage units and other IOT sensors in commercial buildings. The platform has embedded algorithms that can learn from archived building operational data and occupant preferences to allow commercial buildings to save energy (kWh), reduce peak demand (kW) and participate in demand response markets.

## WiseBldg connects to open platforms

IEEE  
802.11

ASRAE BACnet™

openADR  
ALLIANCE

RS-485

Modbus

abg WiFi n a c

IEEE  
802.3

SMART-  
ENERGY  
PROFILE (SEP)

zigbee



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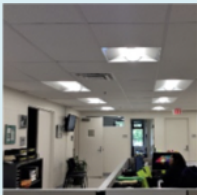
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## WiseBldg Web Interface



## Customer Success Stories



### ARLINGTON COUNTY EQUIPMENT BUREAU BUILDING (Arlington, VA)

Savings achieved: **30% reduction in electricity usage for lighting**

Size: ~5,000 square feet

Loads controlled: Lighting

Measures: Dimming light intensity based on a pre-defined schedule, or usage profile

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### VIRGINIA TECH SCHOOL OF PUBLIC & INTL AFFAIRS (Alexandria, VA)

Savings achieved: **10-15% reduction in total electricity usage**

Size: ~25,000 square feet

Loads controlled: HVAC & plug-load

Measures: Raising A/C set points using machine learning algorithms to maintain comfort



### VIRGINIA TECH OFFICE & RETAIL BUILDING (Blacksburg, VA)

Savings achieved: **10-15% reduction in total electricity usage**

Size: ~40,000 square feet

Loads controlled: HVAC

Measures: Raising A/C set points using machine learning algorithms to maintain comfort

## About BEM Controls

BEM Controls, LLC (established 2015) is an Internet of Things (IOT) software company spun out of Virginia Tech's Advanced Research Institute (VT-ARI) headquartered in the Washington DC metro area. The BEM Controls leadership team has extensive experience in power system and energy efficiency systems design and implementation, and software architecture – both in the United States and globally. BEM Controls is led by its founder, Professor Saifur Rahman, the founding Director of VT-ARI, the President of the IEEE Power & Energy Society and an IEEE Fellow. Dr. Rahman has developed smart grid, renewable energy and energy systems solutions for major utilities around the world. BEM Controls' products have been developed with more than \$3 million in competitive research and development grants from the U.S. Department of Energy, National Science Foundation and the Virginia Center for Innovative Technology.