

# FIN microBMS by J2 Innovations





# Why choose FIN microBMS?



## IoT ready

- Modern tagging-based data model IoT interface through Edge2Cloud
- Designed with cyber security in mind, regular updates



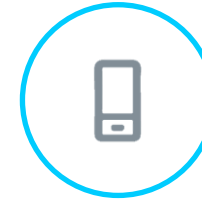
## Simple by design

- Latest technology enables unbeaten simplicity in engineering & commissioning
- Still flexibly expandable with new applications, reports, logics and dashboards over time
- Can integrate with other cloud platforms, IT systems and BMS



## Flexibly customizable for OEMs

- Flexibly adaptable to smart building OEM requirements
- J2 provides application development and developer training services



## Best-in-class user interface

- Best-in-class UX design
- Mobile responsive, fully HTML5 based
- Touch friendly interface

# Market challenges

## What's happening today in less complex smart buildings?



### Increasing integration

Devices and systems using different protocols need to be integrated, with most products requiring specialist expertise and time



### Remote connectivity

Connecting securely for remote internet access is complex and costly because of need to use a VPN



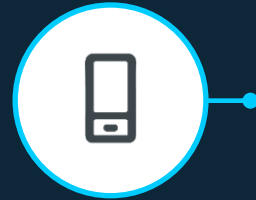
### Greater need for dashboards & analytics

Especially in more basic buildings, need for dashboards and built-in analytics is high due to lack of skilled on-site facility management



### Complex engineering

Existing automation software applications are too complex to deploy on smaller or less complex sites with installer level skill set



### Overly complex user interface

Existing software applications are not intuitive or optimized for use on smartphones or tablets

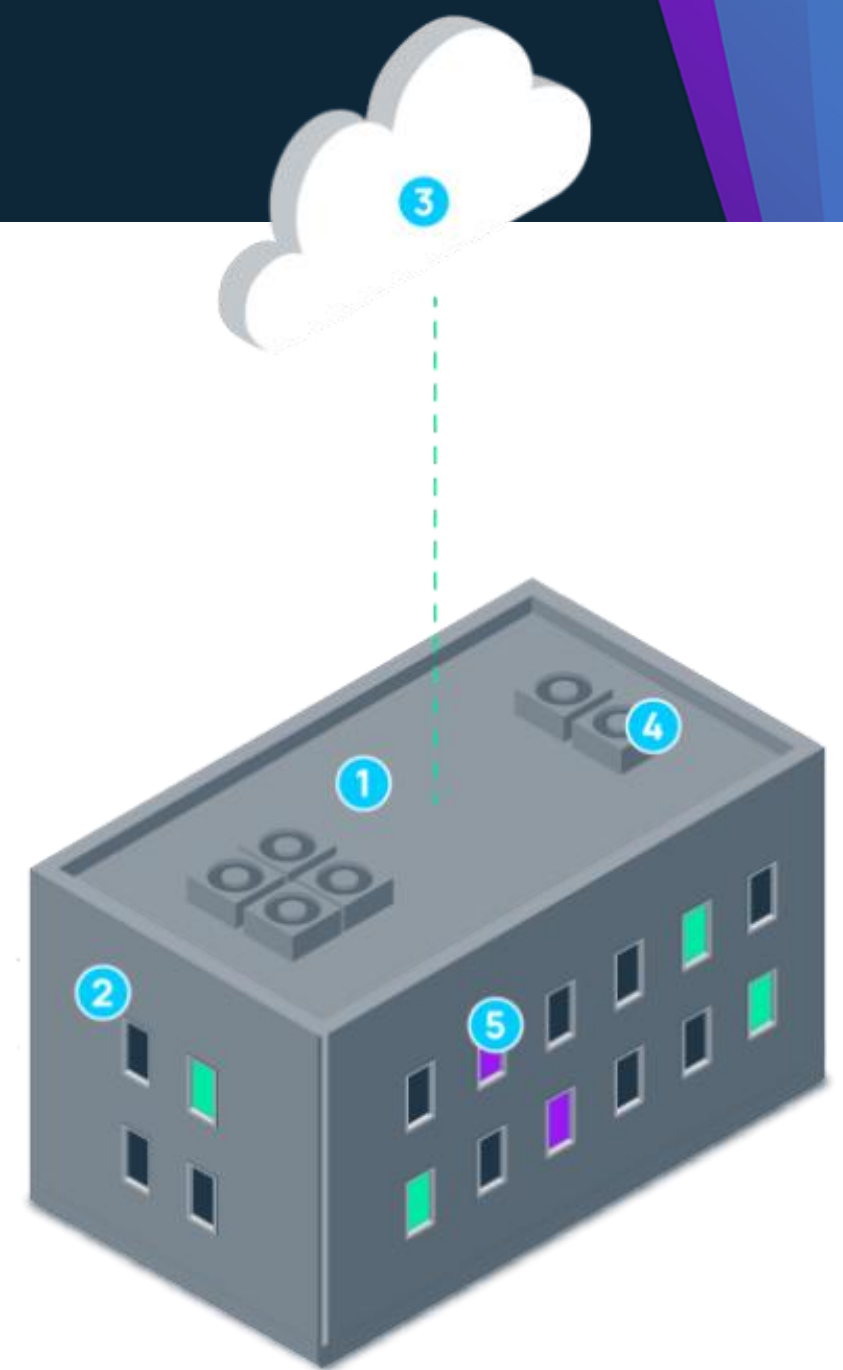


### Need for data standardization

Unlocking the value in building data requires a standardized approach to metadata and data-modelling

# FIN microBMS

1. [Intuitive facilities management](#)  
Support Intuitive dashboards for end-user operation and monitoring, focused on the most relevant information. Expand with basic facility management functions such as maintenance management
2. [Energy & power management](#)  
Manage energy performance with a comprehensive suite of functions, including customizable dashboards and reports optimized for smart phone and desktop browsers
3. [Edge2Cloud](#)  
Remote and secure access to building data
4. [HVAC](#)  
Connect, manage, control and visualize a range of HVAC solutions with built-in templating and configuration
5. [Lighting & shading control](#)  
Easy integration of lighting and shading applications for simple operation such as scheduling and zone settings





# FIN microBMS features and benefits



## Intuitive dashboards

Wide range of dashboards for end-user level operation and monitoring, energy management and facility management, flexibly adjustable



## Compliance with energy efficiency regulations

Ability to shape product to comply with market specific energy efficiency regulations such as EPBD



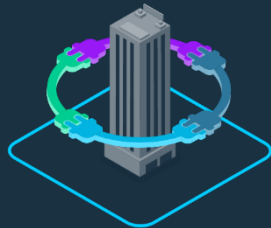
## Reporting & analytics

Set of default reports and set of analytics, with the ability to expand flexibly



## Plug'n'Play engineering

Wizards and templates allow guided engineering and commissioning process, suitable for basic installer skill level

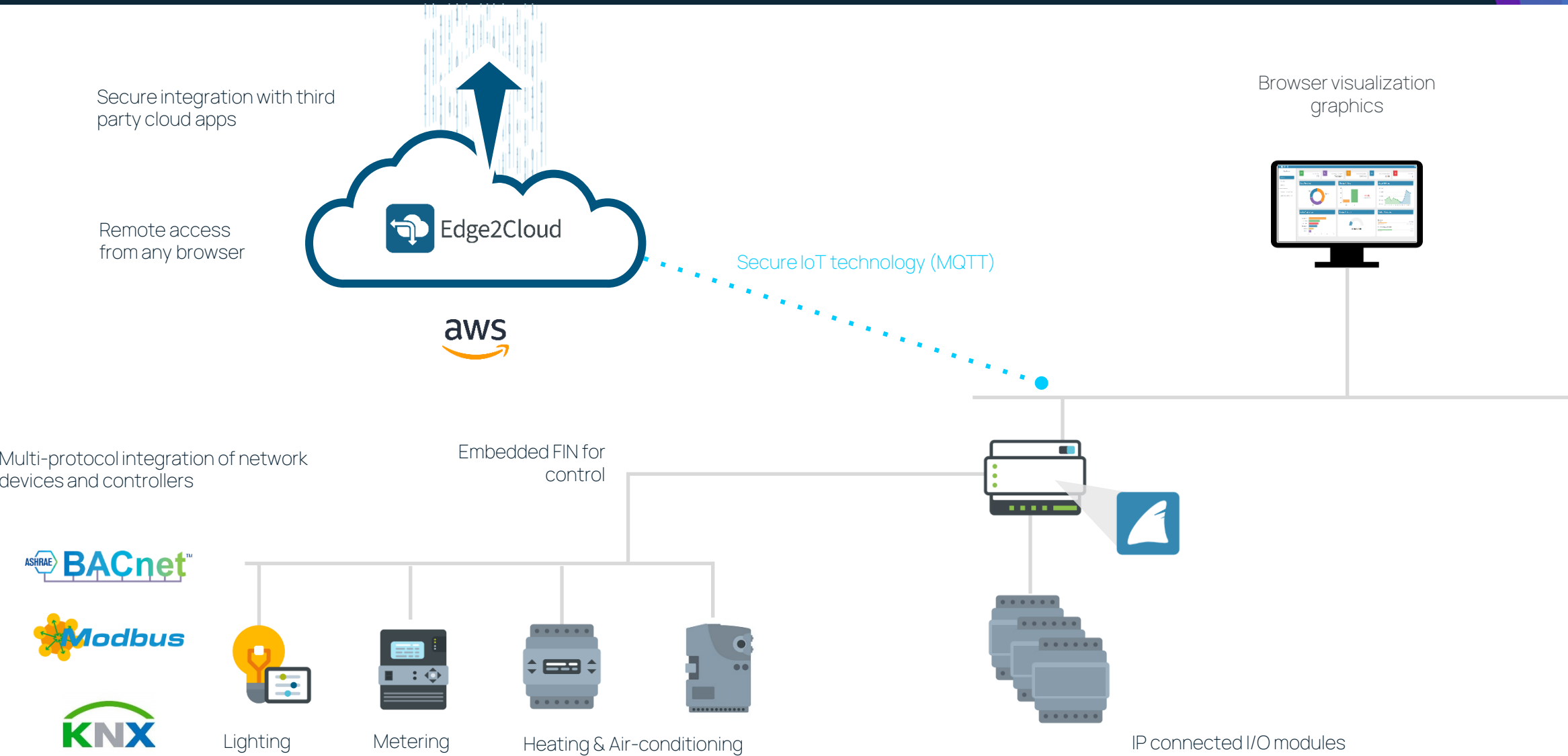


## Open & expandable

Suitable for managing one or multiple different disciplines, including HVAC, lighting, shading, energy and power management. Supports open protocols such as BACnet, Modbus, Haystack, KNX and ability to expand to proprietary protocols



# microBMS Architecture



# microBMS in action



# microBMS – wizard configurator

The screenshot shows the 'Micro BMS Builder' application interface. At the top, there is a blue header bar with the 'FIN Framework' logo and a home icon on the left, and a grid icon on the right. Below the header, the title 'Micro BMS Builder' is displayed next to a building icon. On the left side, a vertical sidebar lists eight steps: Step 1 (Building Setup), Step 2 (Add Areas), Step 3 (Add Equip), Step 4 (Template Loader), Step 5 (Template Selector), Step 6 (Equipment Configuration), Step 7 (Device to Equipment), and Step 8 (Project Ready). Step 1 is currently selected and highlighted. The main content area displays the configuration form for Step 1, which includes fields for Building Name (J2 Innovations test building), Address (Oxford), Area (5000 m²), Country (United Kingdom), Time Zone (GMT+1), and Number of Floors (2). Navigation arrows are visible at the bottom of the form.

Step 1  
Building Setup

Step 2  
Add Areas

Step 3  
Add Equip

Step 4  
Template Loader

Step 5  
Template Selector

Step 6  
Equipment Configuration

Step 7  
Device to Equipment

Step 8  
Project Ready

Building Name  
J2 Innovations test building

Address  
Oxford

Area  
5000 m<sup>2</sup>

Country  
United Kingdom

Time Zone  
GMT+1

Number of Floors  
2

Simple 8 step wizard configurator

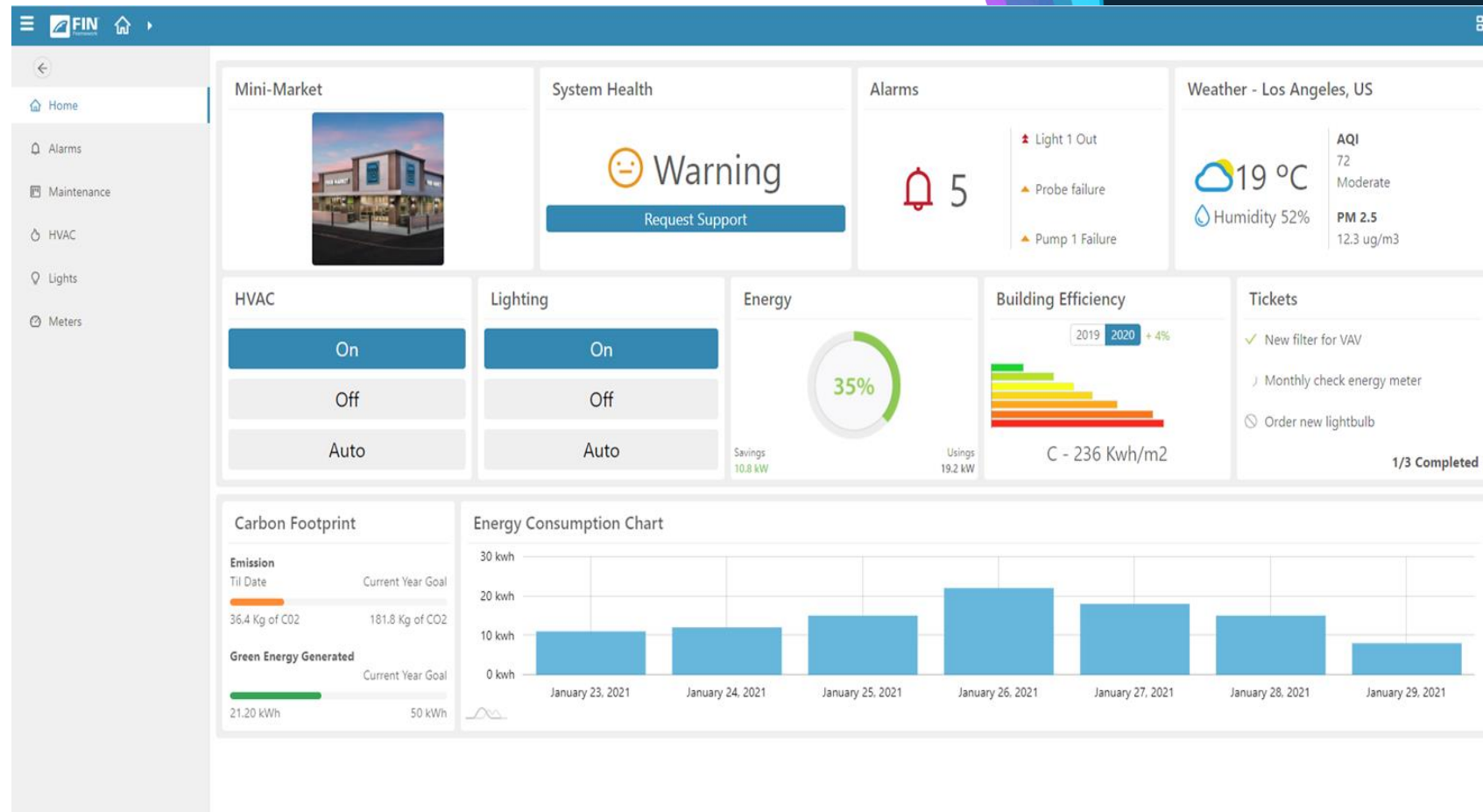
Out-of-the-box set-up

Can connect to devices using various protocols using templates e.g. BACnet, Modbus, KNX

User interface screens are easily customizable for each partner



# microBMS – main dashboard

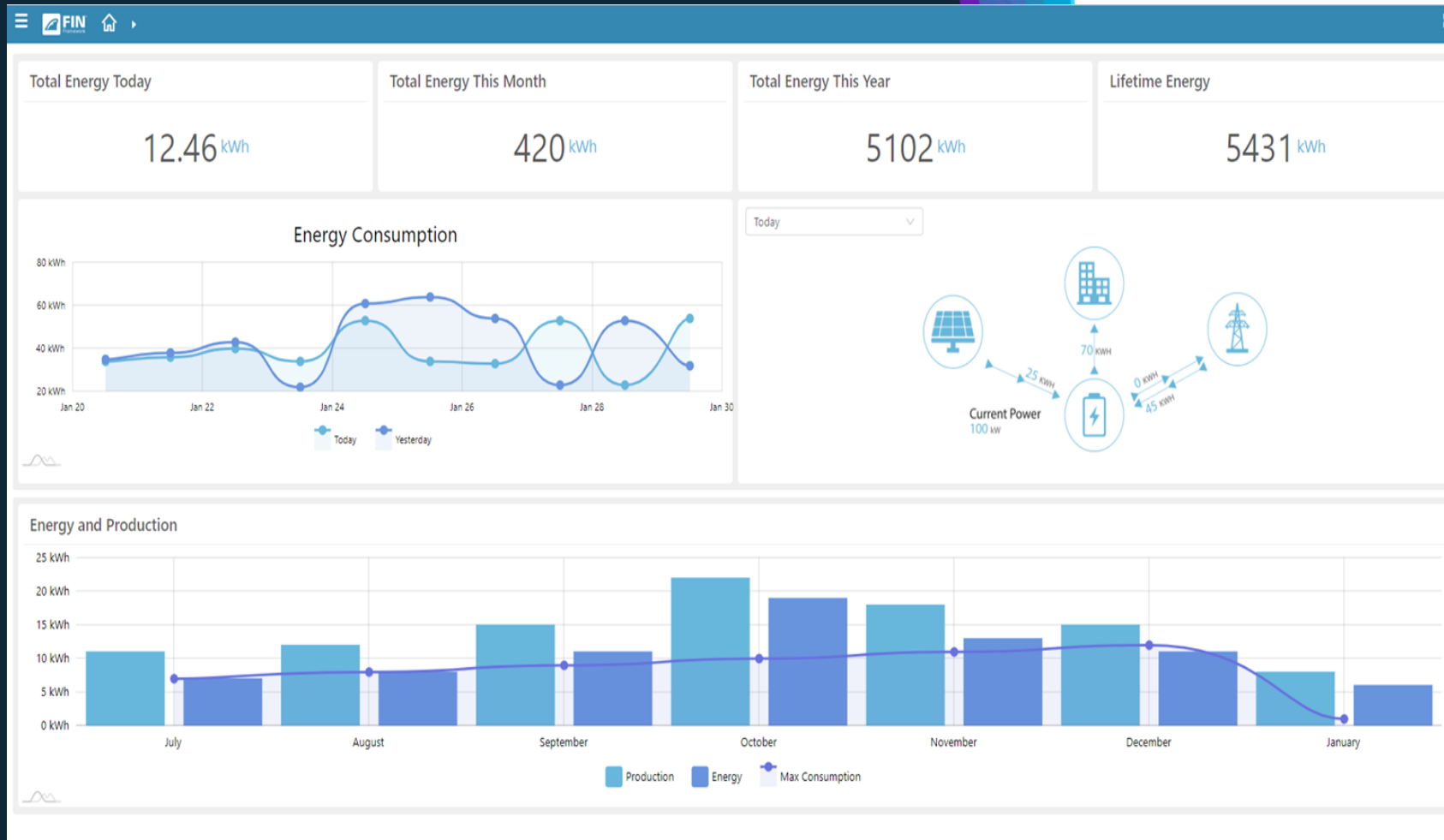


Easy to use dashboards for quick overview of key building systems

Accessible remotely for viewing on PC, tablet or smartphone

Set-up schedules and alarms

# microBMS – historical data



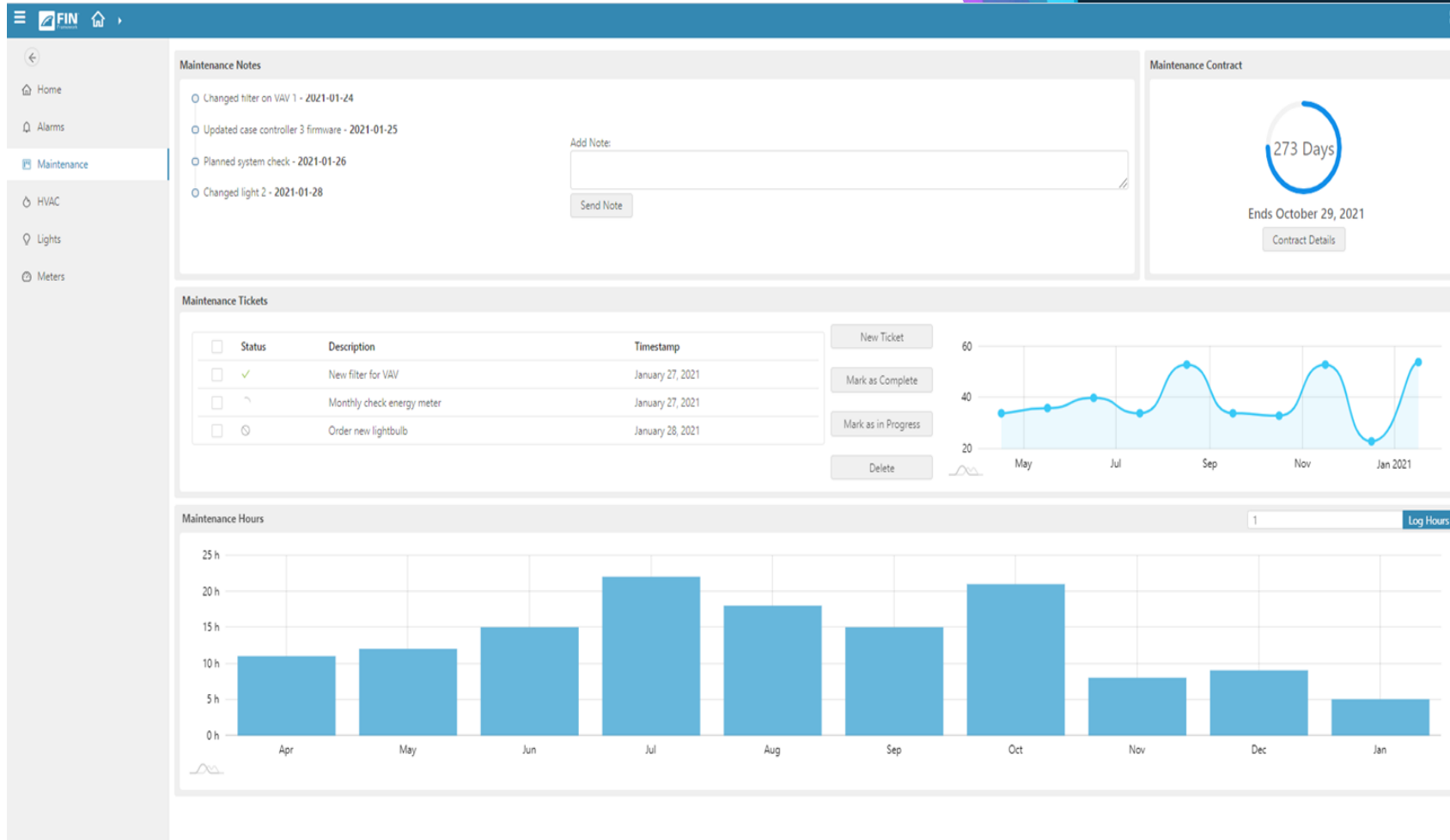
Review and compare historical data

Export data in various formats

All data is tagged to the Haystack standard and accessible for northbound analytics

# microBMS

## – maintenance dashboard



Review and compare historical data

Schedule and review maintenance for building assets

Receive smart alarms via email