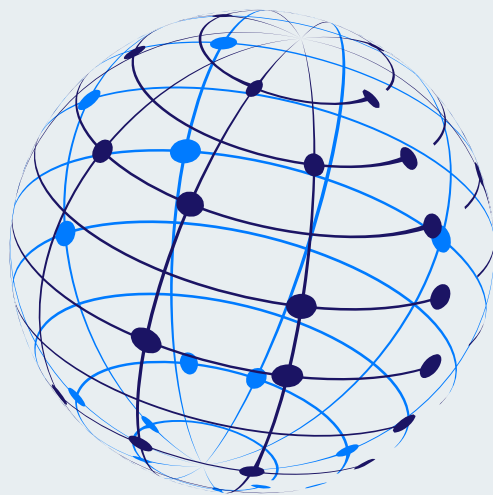




Building Optimization Technologies



- Reduce Energy Waste
- Analyze with Interactive Dashboards
- No Hardware Required
- Support Sustainability Goals

“You can’t get more **efficient** than **off**”

About Building Optimization Technologies (BOT)

Building Optimization Technologies, LLC (BOT) helps schools, counties, and organizations cut energy waste and lower costs through our software platform, the Renaissance Management Suite™ (RMS).

Why RMS?

- Buildings can save up to 30% with better energy management.
- Most energy managers lack time, tools, or staff to analyze interval data.
- RMS solves this by automating data collection and turning it into actionable insights.

What RMS Does

-  Collects and analyzes smart meter + weather data automatically.
-  Detects faulty HVAC systems and inefficiencies in real time.
-  Provides interactive dashboards for faster decisions.
-  Reduces costs while supporting sustainability goals.

Proven Impact

Independent studies show 8–20% energy savings across schools, offices, hospitals, and campuses when using Energy Management Information Systems (EMIS). RMS takes this further by removing hardware costs and simplifying access.

RMS Tiers

RMS-EMIS → Core energy data management and cost savings.

RMS-Plus → Adds predictive weather analytics + advanced algorithms for deeper insight



Data Collection

Interval Energy Data (15-min kWh)

RMS automatically ingests 15-minute interval data from your smart meters to reveal precise usage patterns.

- **Higher accuracy:** granular reads for exact tracking and validation
- **Better decisions:** pinpoint peak demand, after-hours drift, and schedule issues
- **Faster insights:** spot trends, habits, and anomalies across sites

Interval Weather Data (Hourly)

RMS blends in hourly weather from 300+ airports to explain what's driving your loads:

- **Metrics included:** temperature, dew point, humidity, wind (direction/speed/gust), pressure, precipitation, and overall conditions
- **Context that matters:** correlate weather swings with consumption to separate operational issues from climate effects

Why It Matters

- **Actionable analytics:** weather-normalized views highlight true inefficiencies
 - **Predictive capability:** models learn relationships between weather and kWh to forecast and prevent waste
 - **Portfolio scale:** consistent, automated feeds across all buildings—no manual data wrangling
 - **Bottom line:** Granular energy data + rich weather context = clearer root causes, quicker fixes, and measurable savings.
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Features Per Facility

RMS delivers powerful, building-level insights—helping you visualize energy use, detect anomalies, and uncover savings opportunities.

3D kWh Heat Map

Color-coded 3D view of interval kWh to spot peaks, drift, and scheduling issues fast.



Box Plot Analysis

Find outliers driving demand charges; separate normal use from abnormal spikes.



2D Heat Map

Year/season patterns at a glance—catch early start-ups, weekend waste, or faulty controls.



Histogram

See distribution of kWh by month/year; reveal shifts, spikes, and anomalies instantly.



Load Factor

Efficiency score (consistency of use). Higher = steadier, more efficient operation.

Load Profile

Daily/Monthly/Yearly rhythms show peak periods to refine schedules and cut demand.



Load vs Time

Percent-of-time curve highlights how often loads run near peak—target reductions.



Power Factor

Monthly efficiency analysis from smart and IDR meters to reduce penalties.



Regression Analysis

kWh vs temperature scatter to quantify weather impact and baseline/normalize performance.



Time Series

Zoomable kWh over time to spot trends, seasonal shifts, and abnormal spikes.



Time Series (Normalized)

Align weeks by weekday (Mon-to-Mon) to compare true operational patterns, including weekends.



Features Per Portfolio

RMS shows its full strength when managing 100+ facilities—giving you rich, interactive visuals to track energy, detect inefficiencies, and make smarter decisions.

Dashboard

Historical KPIs, trends, and drill-downs for deeper insights.

Pivot Table

Auto-populated tables for quick analysis, no manual entry required.



Power Factor Analysis

Portfolio-wide efficiency monitoring with DEIS + SMT meters.



Quick Access Heatmap Reports

View your entire organization's consumption at a glance with instant, interactive heatmaps.



YTD Energy Comparison

Compare current vs. past years by kWh or % change.



Export Data

Download interval data (kWh + weather) for advanced analysis.



Building Information

Sunburst graphs + datatable with full facility details.



Organization Map

Interactive map for a bird's-eye view of all sites.

Saving Opportunities

Automated reports highlight inefficiencies and overuse.



Climate Data

Links 300+ airports with your facilities to track weather trends and their impact on energy use.



Client Support & Next Steps

- **Guided Learning** – Every feature includes info-icons and tutorial videos for step-by-step help.
- **Onboarding & Training** – New users get a quick start with video guides and dedicated support.
- **Ongoing Support** – Our team is always available to ensure you get the most from RMS.
- **Free Trial** – Visualize your own data in the RMS app. All we need is a recent utility bill to get started.

Contact Us

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