The power of one

Manage your data center's IT and operational technology using a single application

F·T·N

Powering Business Worldwide

Better together:
Two products. One application.

Discover the value of deploying a single Eaton solution

Multi-tenant and colocation (colo) data centers are under mounting pressure to do more with less. As you juggle an array of often-competing demands—from ensuring battery management system warranty compliance to avoiding service level agreement (SLA) penalties, to achieving sustainability goals and automating operations—you need effective tools to meet these challenges head-on. Even better, you need proactive solutions rather than responding to issues reactively.

While traditional data center infrastructure management (DCIM) and electrical power monitoring system software each provide distinct advantages to help resolve key data center needs, integrating the two yields aggregate gains that will solve some of your biggest challenges—and set you apart from competitors.

Our Brightlayer™ Data Centers suite includes two products that, when purchased together, are combined in a single, native application that provides asset management, IT and operational technology (OT) device monitoring and automation, power quality metrics, and one-line diagrams—all of which are essential for you to effectively run your business.

Eaton software for for multi-tenant and and colo data centers

Data Center Performance Management (DCPM) software goes beyond traditional DCIM so you can maximize IT and OT device uptime while minimizing capital and operating expenditures. It provides the insights needed to optimize operations over time, so you can manage the performance of your data center like never before.

Electrical Power Monitoring System (EPMS) software provides real-time and historical visibility into electrical power quality at a single data center or multiple locations so you can maximize equipment uptime, quickly resolve and identify the root-cause of unexpected issues, reduce operating costs and meet sustainability goals.

Using our DCPM and EPMS software together in a single, native application enables you to:

Manage SLAs so you can take proactive action to ensure you stay in compliance.

Simplify monitoring and management of IT and OT assets with a single view across one or more facilities.

Validate environmental, social and governance (ESG) and regulatory compliance with dashboards and reports on power usage effectiveness (PUE) and other key performance indicators (KPIs).
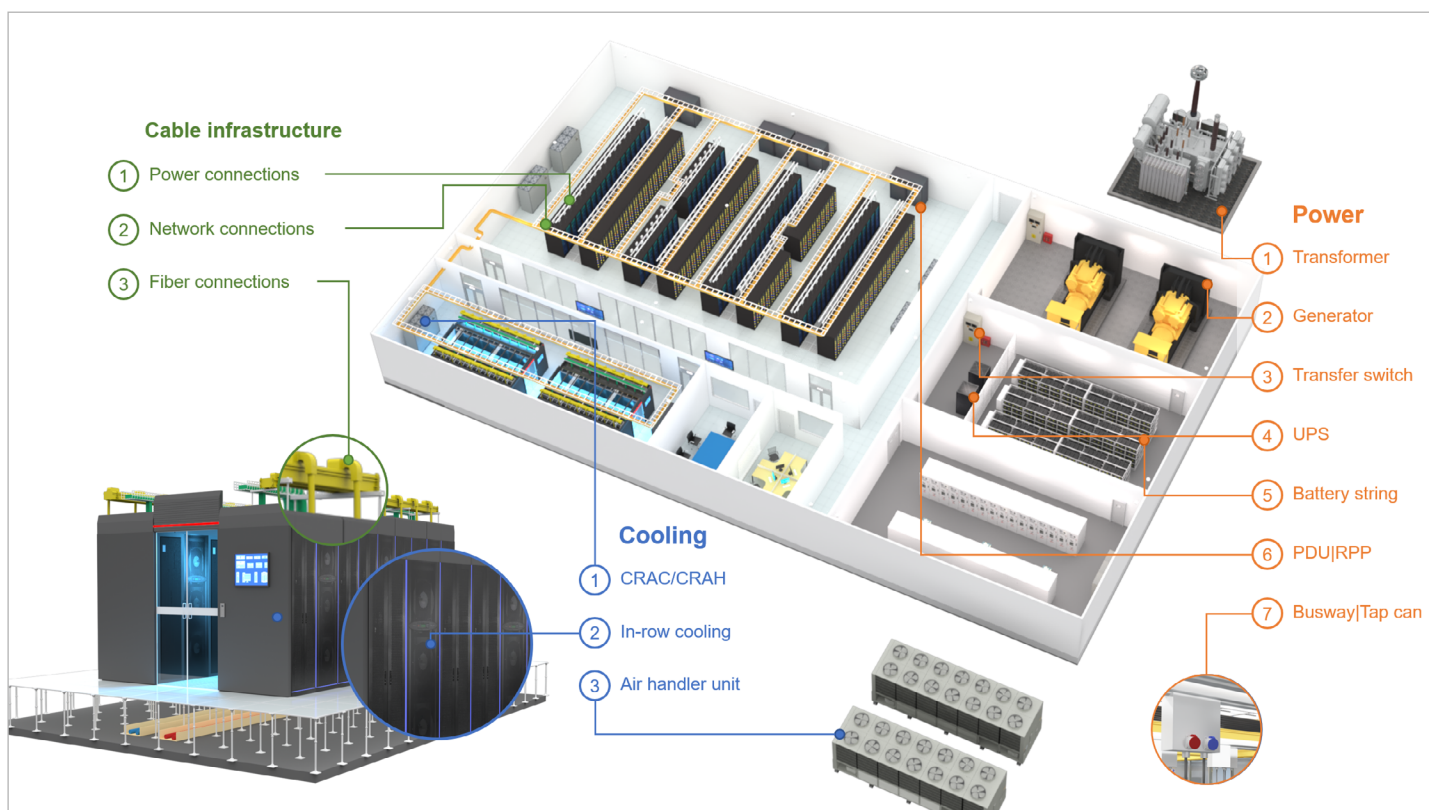
Reduce overall complexity by eliminating data transfer points and accessing a complete toolset within a single application.

Transform disparate data into actionable information so you can isolate and quickly resolve issues.

Enhance change management capabilities with the ability to complete "what if" analyses.

Lower costs by optimizing resource consumption, extending equipment lifespan and reducing maintenance requirements.

Support staff collaboration and reduce training overhead by enabling real-time work within one application that can also provide task automation.

Manage your complex ecosystem of IT and OT assets with one scalable application.
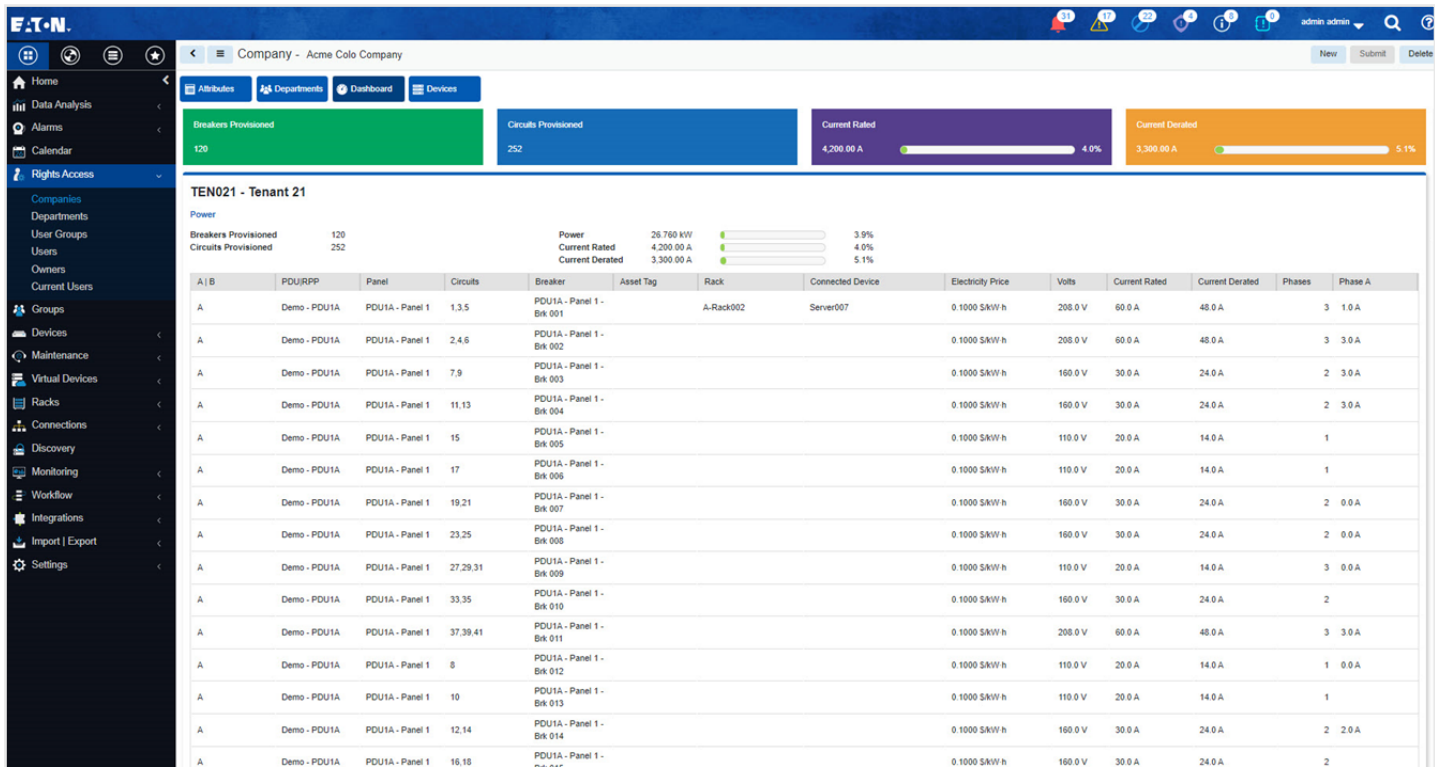
Understand the big picture— and the small one

Optimize overall operations while still managing each tenant in isolation

Using DCPM and EPMS software together provides you with a superset of functionality found in multiple vendor software applications today. This significantly streamlines your user experience, providing a single point of access for visualizations, insights, automation and resiliency. Roll up data across any vendor or protocol, and view it in aggregate—holistically or by individual site—to maintain 24/7 awareness of facility-wide operational health.

With the ability to manage your IT and OT assets in a single application, you can gain deep insights and the ability to quickly optimize a wide range of critical systems within the data center.

Site level: Compare parameters between facilities, assess current operational state and how equipment is performing, gauge power quality and more.

Tenant level: Extract metrics to prove SLAs, ensure billing accuracy, reduce power utilization and more.

Site- or tenant-level breaker utilization report will help you understand consumption.

Do more with less

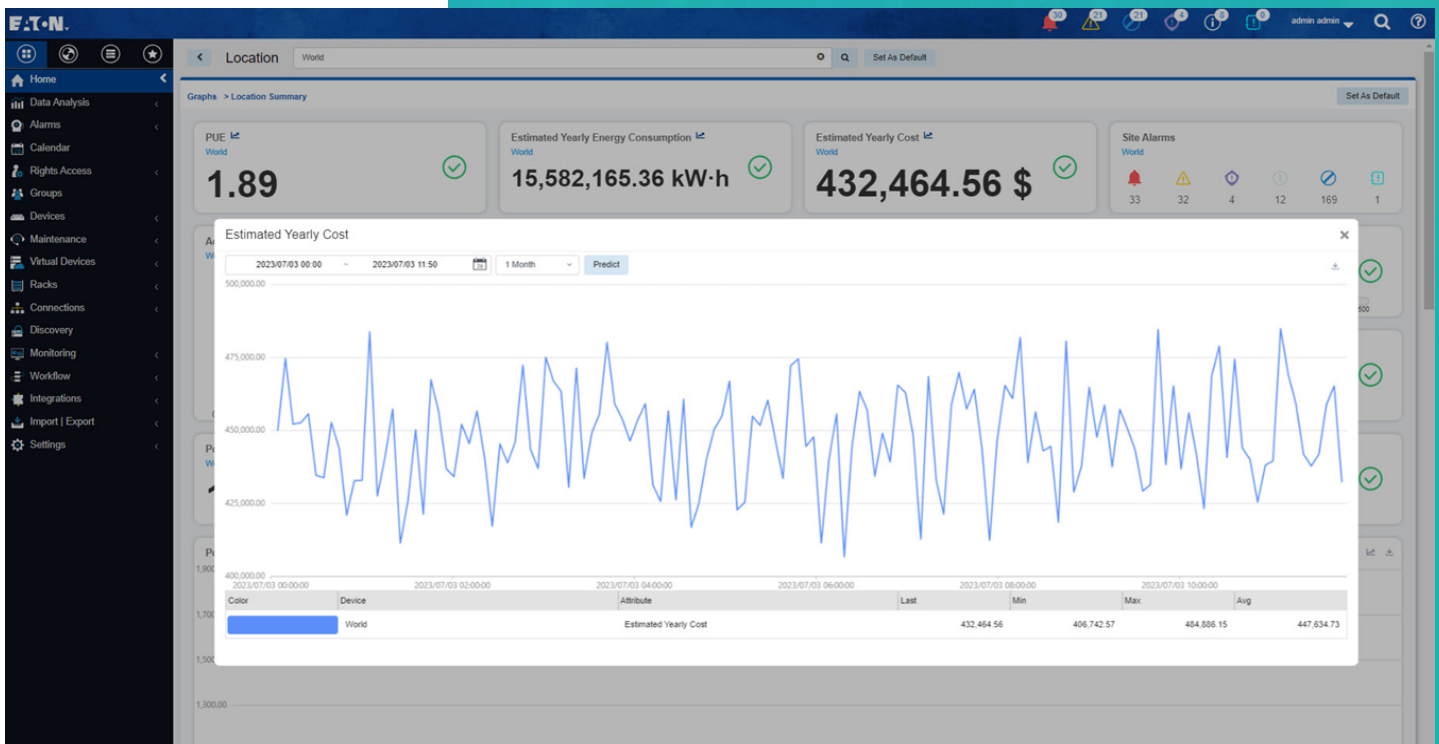## Reduce costs, avoid SLA penalties and meet ESG goals

We understand that data center managers are expected to do more with less—achieve more uptime with less worry, enable more visualization with less uncertainty and cut more costs with fewer SLA penalties.

Now you can overcome your greatest challenges by combining DCPM with EPMS.

Challenge: Reduce costs

Lowering costs—from equipment expenditures and maintenance fees to utility charges and staffing—is top-of-mind for data center operators.

The comprehensive monitoring and reports available with DCPM and EPMS will enable you to track and optimize water, air, gas, electricity and steam (WAGES) consumption to reduce operational costs. You'll also be able to extend equipment lifespan because you'll be able to predict future problems and take corrective action. Additionally, because the software provides alerts and automates many tasks, it'll enable you to allocate more time to future planning and proactive maintenance, rather than troubleshooting issues and performing tedious daily operations.
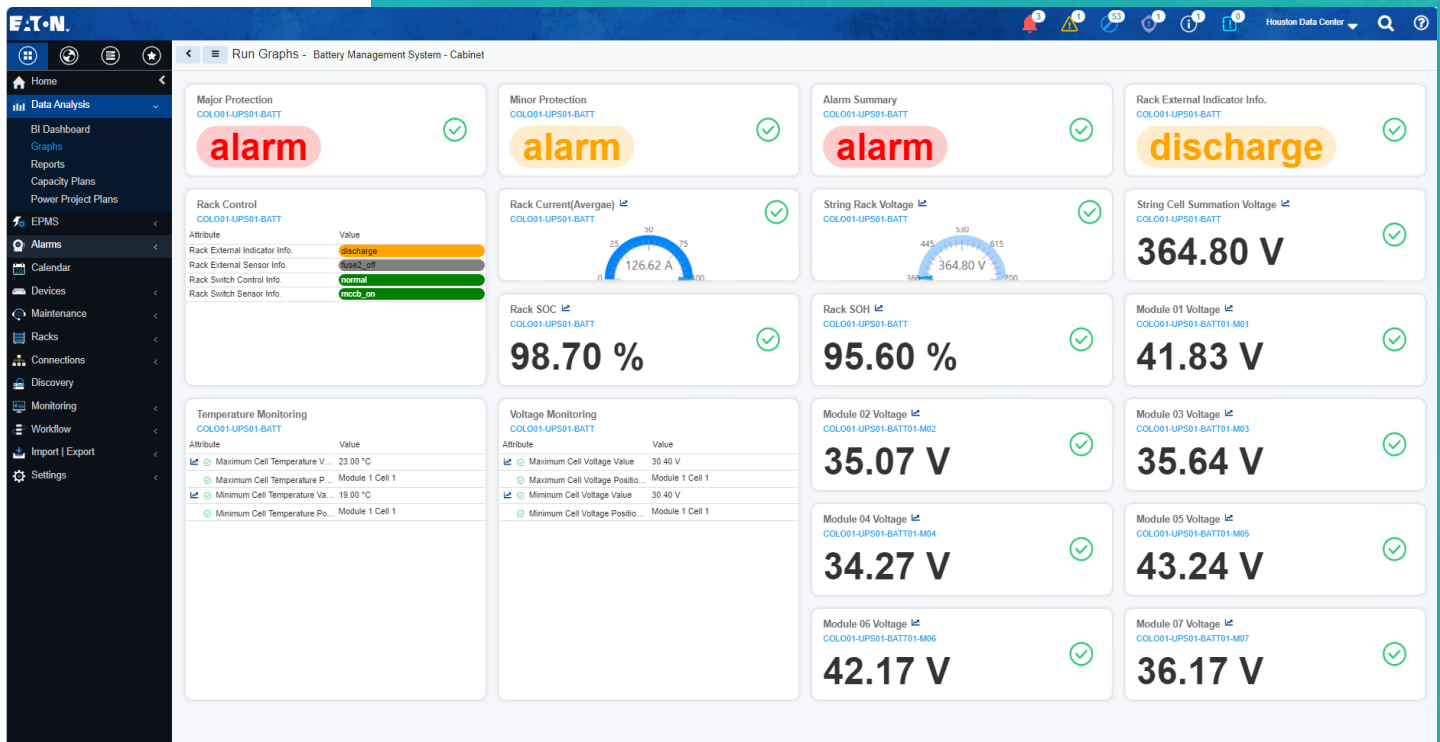

View estimated costs over time to identify opportunities to reduce operational costs.

Challenge: Manage battery system alerts and warranties

Staying on top of battery system health and warranty requirements is challenging. DCPM will help you track battery health and remain in compliance with your lithium-ion battery warranty, regardless of the vendor, with centralized alerts and automated discharge reports. The software also provides the data required for warranty claims.
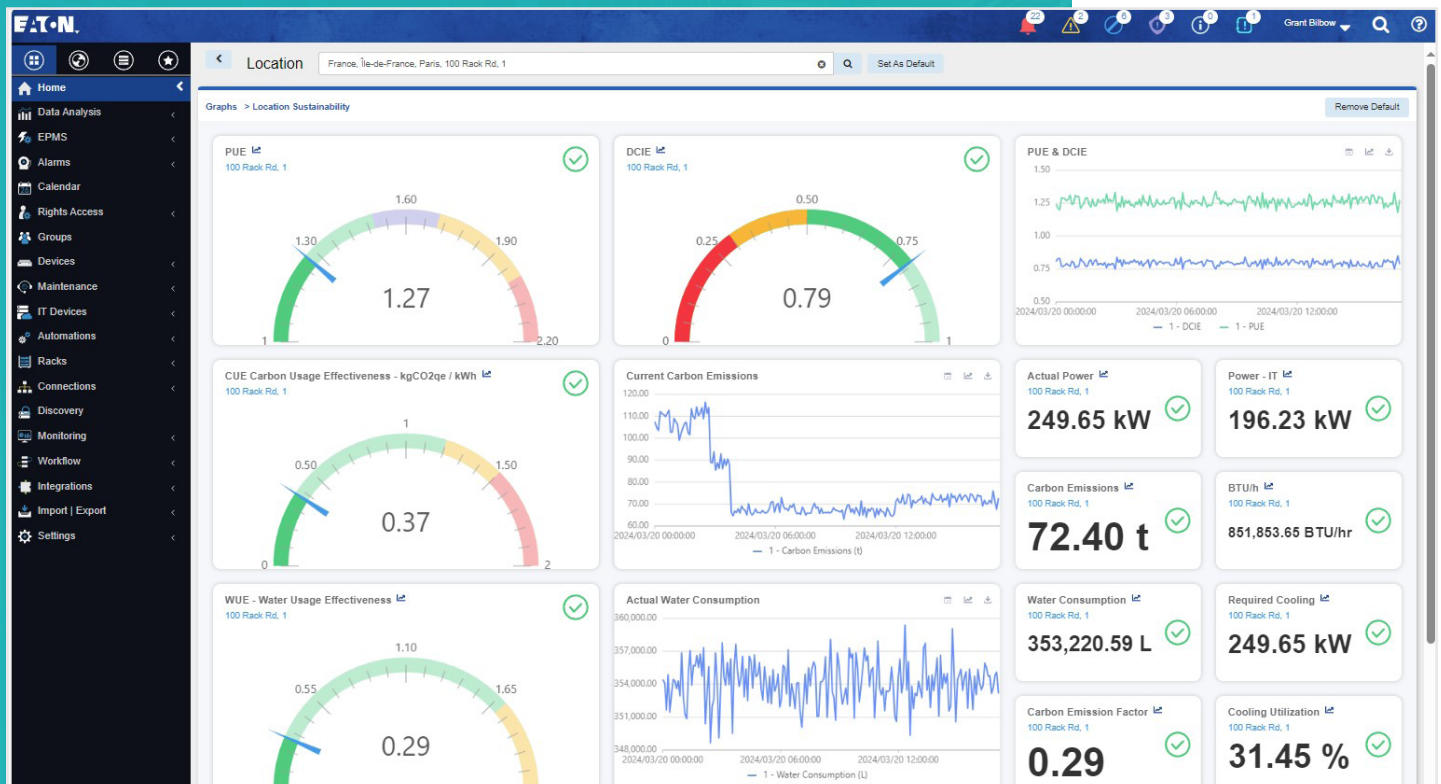

Battery string and module metrics for monitoring battery health.

Challenge: Meet ESG goals

Sustainability performance is critical for customer acquisition and retention. The real-time reporting capabilities of EPMS software provide valuable insight into utilization so you can identify and address areas of improvement, and report on your various utilization levels and power source mix.

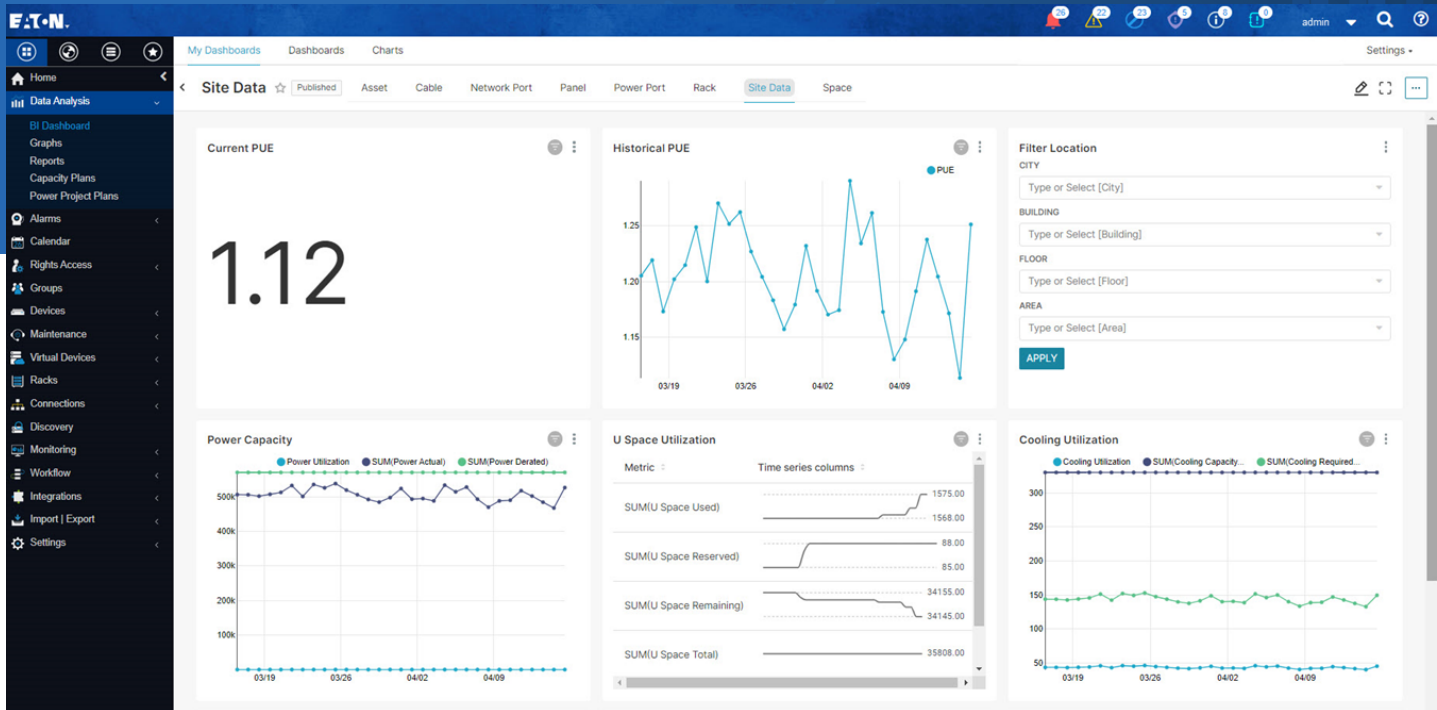Sustainability dashboard provides real-time and trending consumption views.

Data Center Performance Management at a glance

By providing accurate, actionable data on critical data center parameters, DCPM enables you to plan more effectively for the future utilization of space, power and cooling capacity.

Manage and monitor your assets to gain efficiencies

Get complete visibility into your entire data center so you can minimize operational costs and stranded capacity. Know when, where and how much power is being used; the location of all assets; and the and environmental conditions—from the grid to the chip.

Monitor power, space and cooling resources over time to identify trends and outliers that need to be addressed.

Aggregate real-time and historical data

Receive automated, customized alerts via text message, and email and system notifications when issues arise—regardless of the device data source—with support for more than 10 monitoring protocols, including Modbus, Simple Network Management Protocol (SNMP) and BACnet. Ensure adherence to SLA response times and issue commands on defined conditions, including errors, capacity issues, warranty expirations and service requirements.
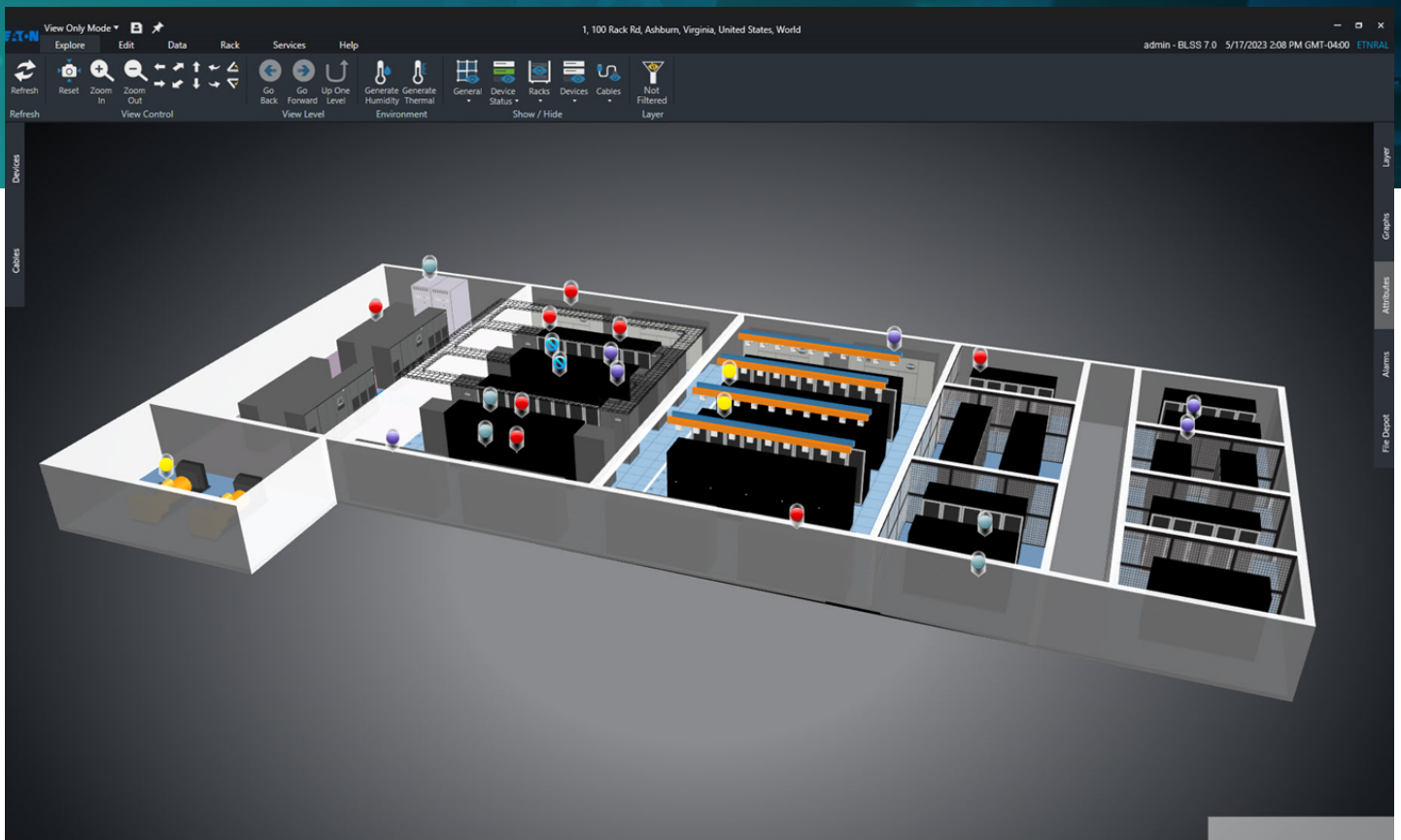
Make sense of your data

Understand key parameters needed to optimize change-management decisions with the ability to visualize your data center—from the entire facility down to a single room, rack or device. Dashboards and tools provide user-defined 2D and 3D digital twin representations for temperature and humidity mapping, electrical utilization, critical power chain status and more.

Ensure your data center is operating as expected with macro and micro insights

With more than 90 out-of-the-box automated reports for alarms, asset capacity, efficiency, metrics, service and system, you can maximize uptime, simplify planning and minimize unnecessary maintenance activities.

3D visualization tool provides rack-level insights.

Electrical Power Monitoring System at a glance

EPMS software offers real-time WAGES monitoring, and power quality analysis to reduce operating costs, enhance uptime and proactively resolve potential issues before they become major problems.
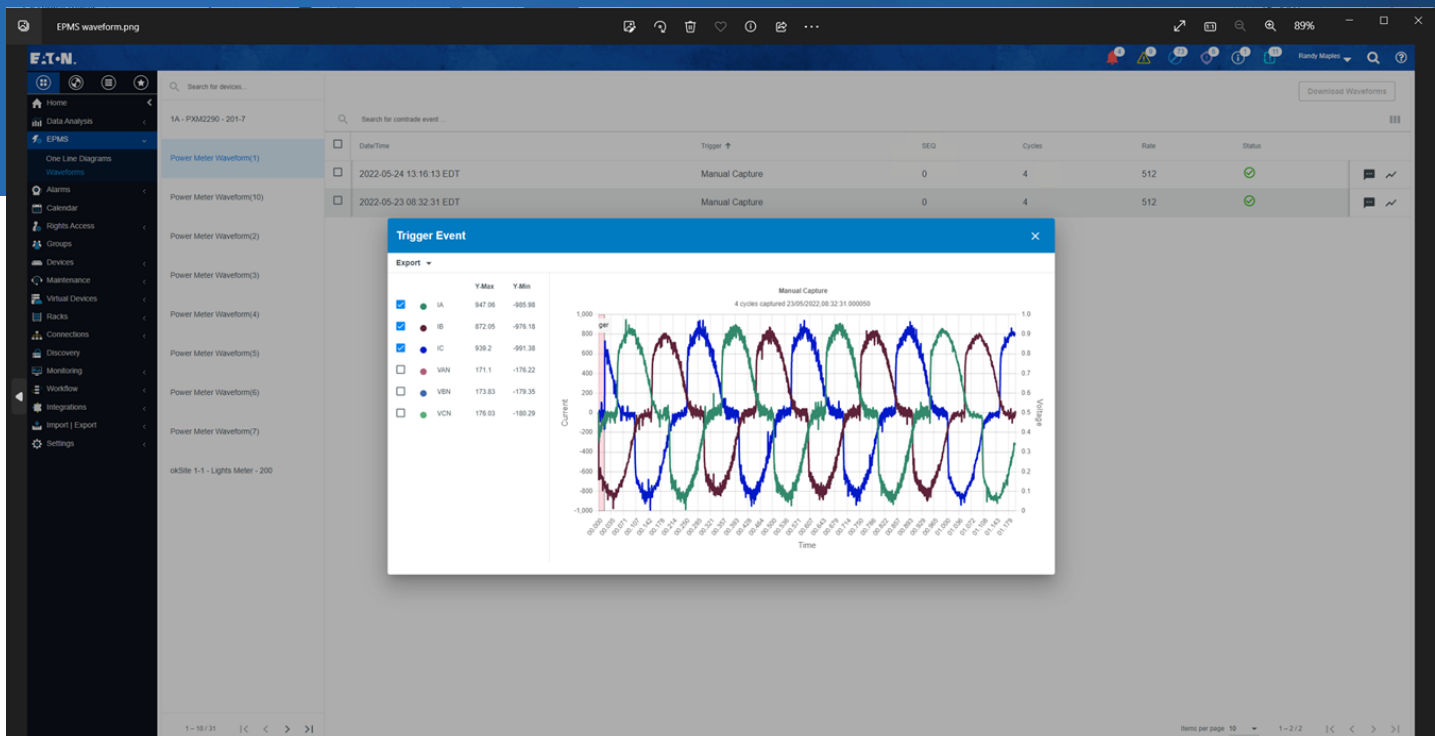
Maximize facility uptime

By monitoring all aspects of an electrical system and normalizing the data for review and analysis, you can understand the operational behavior of your facility and identify outliers to proactively mitigate potential outage-causing issues.

Quickly resolve issues and identify root-cause

Expedite analysis, identify and resolve issues, and prevent reoccurrence through comprehensive power-quality and waveform analysis, a historical high-resolution dataset and custom one-line diagrams. Push notifications may also be sent to other software applications to further streamline management.
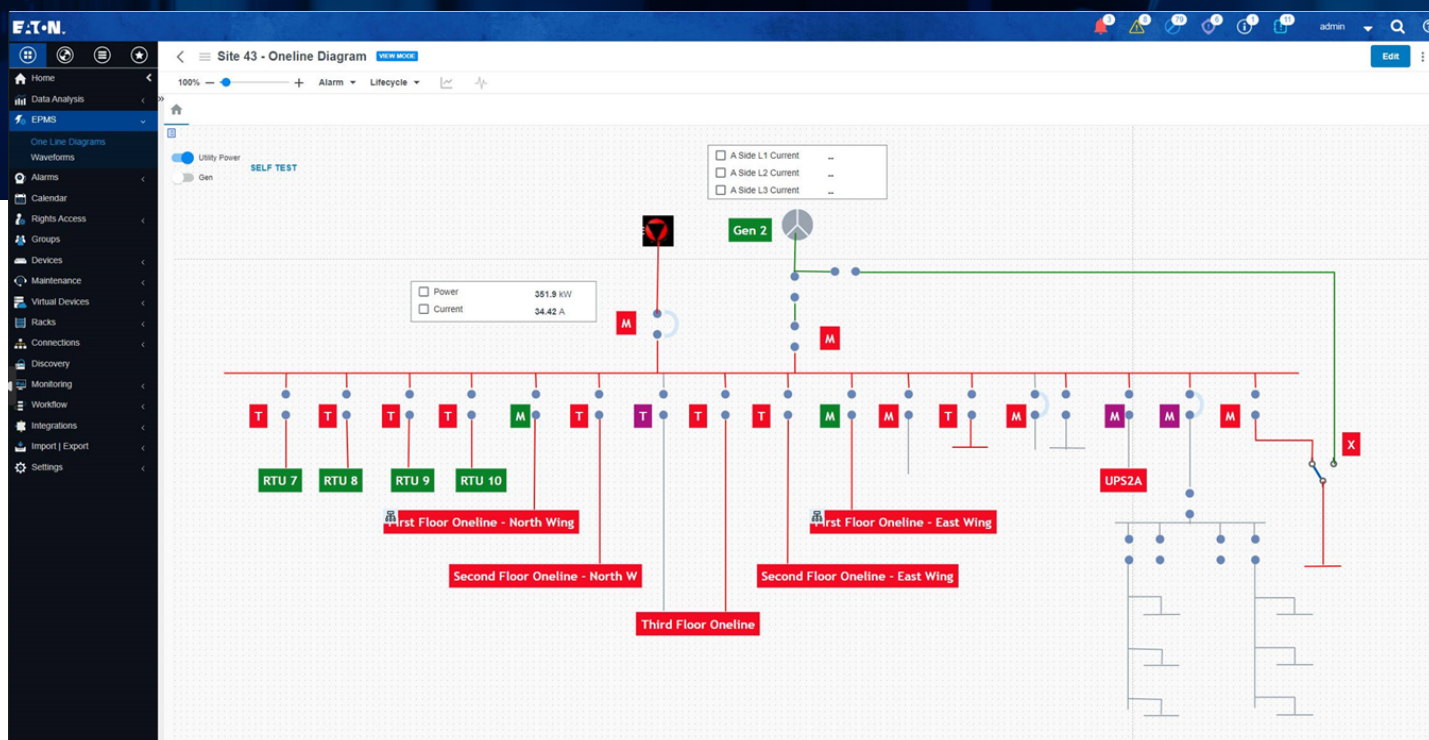

Waveform analysis allows you to identify, trace and analyze power quality events to quickly resolve and prevent occurrence.
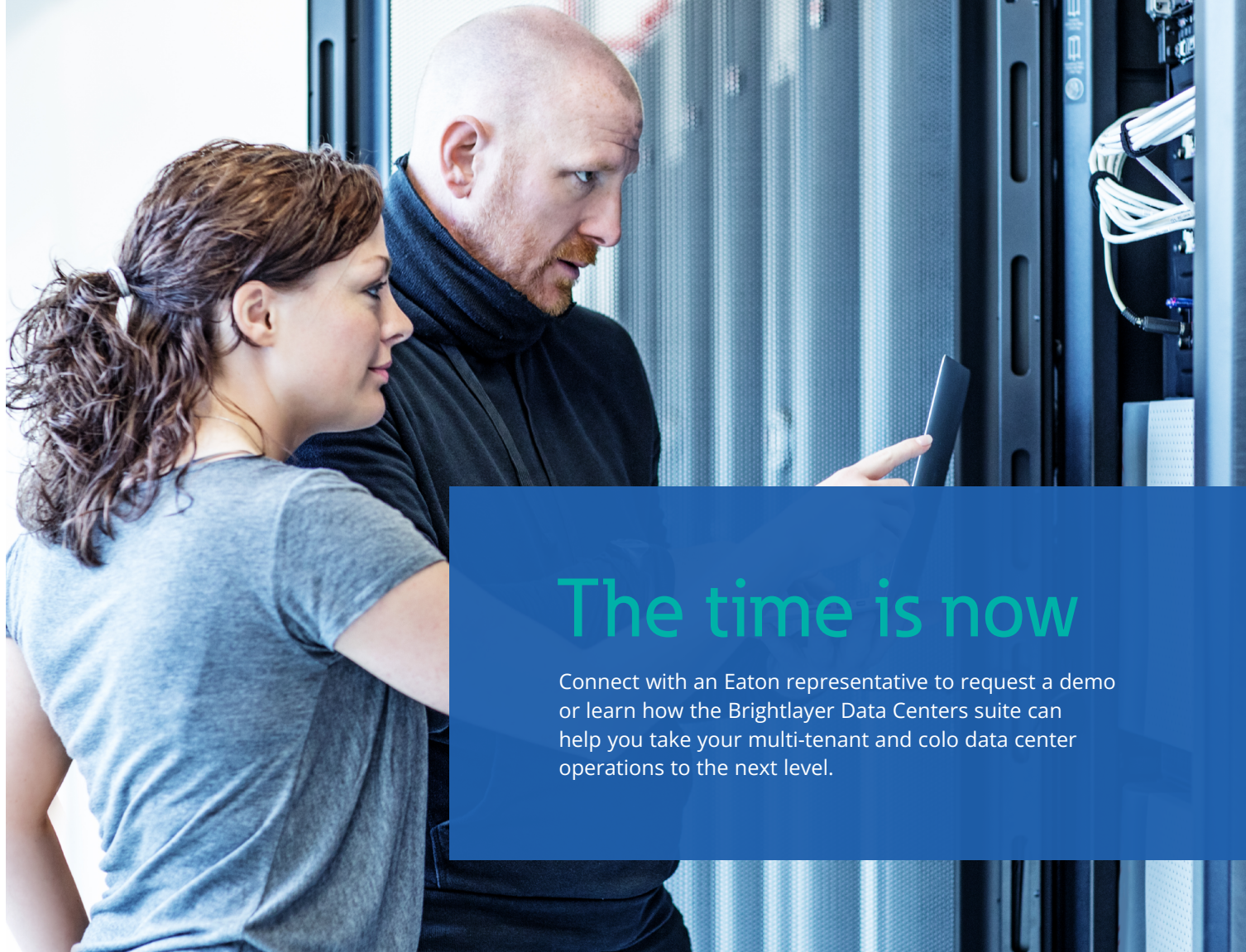
Understand resource consumption

Gain clarity and insight into where and when energy is flowing through your facility to help make decisions, reduce or change consumption patterns, and lower utility costs. Normalized data is stored for review and analysis, compliance reporting, and accurate change management forecasting.

One-line diagrams provide a simple view of your facility's electrical distribution infrastructure.

The time is now

Connect with an Eaton representative to request a demo or learn how the Brightlayer Data Centers suite can help you take your multi-tenant and colo data center operations to the next level.

Learn more at
Eaton.com/BrightlayerDataCenters

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Follow us on social media to get the latest product and support information.

EAT•N
Powering Business Worldwide