

INDUSTRIAL POWER MONITORING

Powering More Efficient, Reliable, and Resilient Industrial Operations



- Improve energy efficiency
- Increase power reliability
- Reduce unplanned downtime
- Extend equipment life
- Enable proactive maintenance
- Make faster operational decisions

THE PROBLEM: WHY MODERN INDUSTRIAL OPERATIONS DEMAND COMPLETE ELECTRICAL INFRASTRUCTURE VISIBILITY

Industrial and building operations face increasing pressure to operate more efficiently while reducing energy consumption, improving equipment reliability, maintaining power quality, and meeting sustainability goals.

Rising energy costs, aging electrical infrastructure, and increasing operational complexity make complete visibility into electrical systems more important than ever.

Modern industrial operations demand:

- Greater visibility across electrical infrastructure
- Improved energy efficiency and sustainability
- Reliable power quality for continuous operations
- Proactive identification of electrical issues before failures occur
- Data-driven maintenance and operational decisions
- Faster operational decision-making

INDUSTRY INSIGHT

Power interruptions and power quality events impose significant costs on electricity consumers, highlighting the business value of improving electrical system reliability and visibility.

Source: Lawrence Berkeley National Laboratory, U.S. Department of Energy, [Cost of Power Interruptions to Electricity Consumers in the United States](#).



THE CONSEQUENCES: THE COST OF LIMITED ELECTRICAL VISIBILITY

Without complete visibility into electrical infrastructure, operational risks increase while opportunities to improve efficiency, reliability, and sustainability are lost. As operations expand and energy demands increase, fragmented monitoring systems make it difficult to detect emerging issues before they affect production, maintenance, and business performance.

Organizations often experience:

- Rising energy costs driven by undetected inefficiencies
- Increased risk of equipment failures and unplanned downtime
- Shortened equipment life caused by unresolved power quality issues
- Higher maintenance costs driven by reactive repairs
- Reduced operational visibility and slower decision-making
- Greater difficulty achieving sustainability and compliance objectives

Over time, these challenges compound. Organizations spend more time responding to failures than preventing them, make decisions based on incomplete information, and miss opportunities to improve operational performance, optimize energy consumption, and strengthen long-term operational resilience.

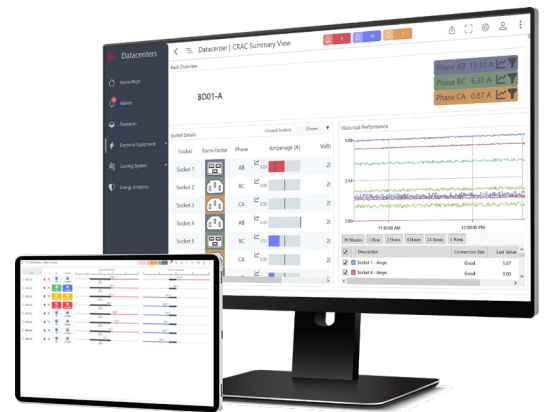


THE SOLUTION: TRANSFORM ELECTRICAL DATA INTO OPERATIONAL INTELLIGENCE

Improving operational performance requires more than monitoring electrical systems. Organizations need complete visibility across electrical infrastructure to understand system performance, identify issues earlier, and make proactive operational decisions.

GENESIS, the industrial automation and digitalization software from Mitsubishi Electric Iconics Digital Solutions, transforms real-time electrical infrastructure data into actionable operational intelligence.

By unifying monitoring, visualization, alarming, analytics, reporting, and historical data within a single software environment, GENESIS enables organizations to improve operational performance across critical electrical infrastructure.



Organizations can:

- Improve energy efficiency through real-time operational visibility
- Increase power reliability by identifying issues before failures occur
- Reduce unplanned downtime through proactive monitoring and alarming
- Extend equipment life by detecting abnormal operating conditions earlier
- Optimize maintenance planning using operational trends and historical insights
- Support energy management and sustainability initiatives with accurate energy monitoring and reporting
- Make faster, more informed operational decisions through centralized visibility

Rather than managing disconnected monitoring systems, organizations gain a unified operational view that supports continuous improvement across facilities and enterprise operations.

SUPPORTING ENERGY MANAGEMENT INITIATIVES

GENESIS monitoring, historical data, analytics and reporting capabilities can provide operational data to support energy management programs and initiatives aligned with ISO 50001.



THE OUTCOME: COMPLETE VISIBILITY. INTELLIGENT DECISIONS. OPERATIONAL EXCELLENCE.

Complete visibility across electrical infrastructure enables organizations to move beyond reactive maintenance and fragmented decision-making. With actionable operational intelligence, organizations can improve reliability, reduce energy consumption, strengthen operational resilience, and continuously optimize performance.

Organizations realize:

- Reduced energy costs
- Greater power reliability
- Fewer unplanned outages
- Longer equipment life
- More efficient maintenance operations
- Improved operational visibility
- More informed operational and business decisions



REAL-WORLD RESULTS:

AKSA NATURAL GAS DISTRIBUTION

Operating one of Turkey's largest natural gas distribution networks, Aksa required greater visibility across a geographically distributed infrastructure while managing more than 120,000 active tags.

Using GENESIS, the company centralized monitoring across its distribution network, significantly reducing engineering effort while improving operational visibility and supporting faster decision-making.

[Read the Aksa Natural Gas Distribution success story.](#)

Results included:

- Configuration time reduced from 2 hours to 10 seconds
- Remote monitoring across 120,000+ active tags
- Centralized operational visibility across distributed infrastructure
- Improved access to operational data supporting faster operational decision-making

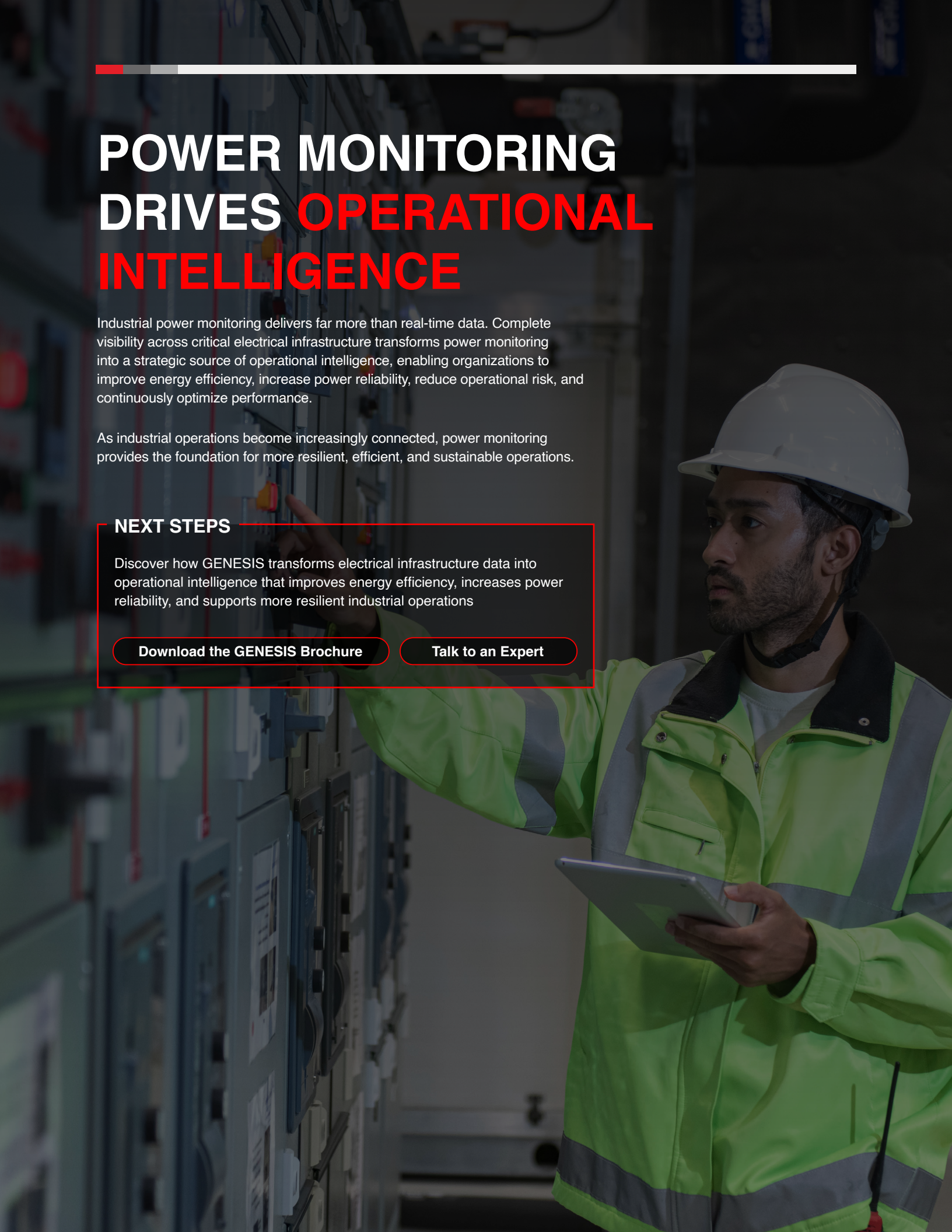
POWER MONITORING DRIVES **OPERATIONAL INTELLIGENCE**

Industrial power monitoring delivers far more than real-time data. Complete visibility across critical electrical infrastructure transforms power monitoring into a strategic source of operational intelligence, enabling organizations to improve energy efficiency, increase power reliability, reduce operational risk, and continuously optimize performance.

As industrial operations become increasingly connected, power monitoring provides the foundation for more resilient, efficient, and sustainable operations.

NEXT STEPS

Discover how GENESIS transforms electrical infrastructure data into operational intelligence that improves energy efficiency, increases power reliability, and supports more resilient industrial operations

[Download the GENESIS Brochure](#)[Talk to an Expert](#)

ABOUT MITSUBISHI ELECTRIC ICONICS DIGITAL SOLUTIONS

Mitsubishi Electric Iconics Digital Solutions, headquartered in Foxborough, Massachusetts, is a global leader in industrial automation, smart and sustainable buildings, and digitalization software. Our advanced HMI, SCADA, and Smart Building solutions enable businesses to visualize, monitor, and optimize their most critical assets and spaces. With installations in over 100 countries and adoption by more than 70% of Global 500 companies, we drive operational efficiency and continuous improvement across industrial manufacturing, infrastructure, and built environment sectors. Backed by cutting-edge technology and deep industry expertise, we deliver flexible, scalable, and high-performance software solutions. As a testament to our excellence, Mitsubishi Electric Iconics Digital Solutions has been recognized as a seven-time winner of the Microsoft Partner of the Year award.

Mitsubishi Electric Iconics Digital Solutions Sales Offices

World Headquarters
2 Hampshire Street
Foxborough, MA, USA, 02035
+1 508 543 8600
info@iconics.com

Australia australia@iconics.com	France france@iconics.com	Japan japan@iconics.com	Philippines philippines@iconics.com	UK uk@iconics.com
Brazil brazil@iconics.com	Germany germany@iconics.com	Malaysia malaysia@iconics.com	Singapore singapore@iconics.com	Vietnam vietnam@iconics.com
Canada canada@iconics.com	India india@iconics.com	Mexico mexico@iconics.com	South Korea southkorea@iconics.com	
China china@iconics.com	Indonesia indonesia@iconics.com	Middle East middleeast@iconics.com	Taiwan taiwan@iconics.com	
Czech Republic czech@iconics.com	Italy italy@iconics.com	Netherlands holland@iconics.com	Thailand thailand@iconics.com	

MITSUBISHI ELECTRIC ICONICS DIGITAL SOLUTIONS, INC.

HEAD OFFICE: 2 Hampshire Street, Suite 300, Foxborough, MA 02035