

POWER ON.
PEACE OF MIND





Power availability is a fundamental requirement for data centers to achieve performance objectives.



Thermal sensor technology builds greater electrical system resilience for data center operators.



Early detection of potential failures helps operators mitigate risks in critical electrical assets.

Continuous Thermal Monitoring (CTM) For Data Centers

With globally distributed data centers, edge computing nodes and service operation hubs, this technology giant demands reliable power to deliver hundreds of cloud products and enterprise services.



The Problem

Maintenance Schedule

Maintaining electrical availability is key across the client's organization: the need for a reliable supply of electrical power is critical. However, asset maintenance presented risks, and was made more challenging due to a zero-hot work policy.

Periodic Inspection

Inspection practices utilised infrared (IR) windows to perform thermal scanning of critical electrical assets to monitor the temperature. To carry out these periodic inspections of electrical switchgear, equipment had to be de-energized to conform with operational procedures and the zero-hot work policy. By the time the switchgear was inspected, any problematic hot spots would no longer be visible.

Unplanned Power Outages

Compromised assets and potential failures were only detected during the inspection, just a moment in time. The risk of an unplanned power outage remained.





The Solution

24x7 Monitoring

To increase safety and maximize operational uptime, the client installed Exertherm's continuous thermal monitoring solution. Permanently installed thermal monitoring sensors negate the need for manual thermographic inspections and enable a significantly more cost-effective maintenance cycle. With their typical lifespan of 5 years and poor line-of-sight challenges, it also eradicated the use of IR windows.

Real-Time Data

The CTM solution continuously detects hotspots, mitigating the risk of electrical outages occurring in critical electrical joints. The production of real-time data enables operators to track asset health and observe trends. The uniformity of data produced by Exertherm's permanently installed thermal monitoring sensors eliminates the inconsistency issues created through the use of different IR camera brands, incorrect calibration, and the individual technician's interpretation.

Cost Saving

The evolution from periodic inspection to predictive maintenance continues to deliver numerous benefits for the organization. As well as transformational data and cost savings for a sustainability-conscious modern data center, Exertherm's CTM solution improves safety and delivers more reliable system uptime.

Need To Solve Electrical Outages?

Visit our website to discover the benefits of continuous thermal monitoring.

Discover CTM Applications

Testimonial

...the Exertherm continuous monitoring solution is now part of our base electrical switchgear specification for all new build data centers globally, reducing the risk of outages and future proofing our new equipment.

Global Data Center Organization, Electrical Engineering Management

