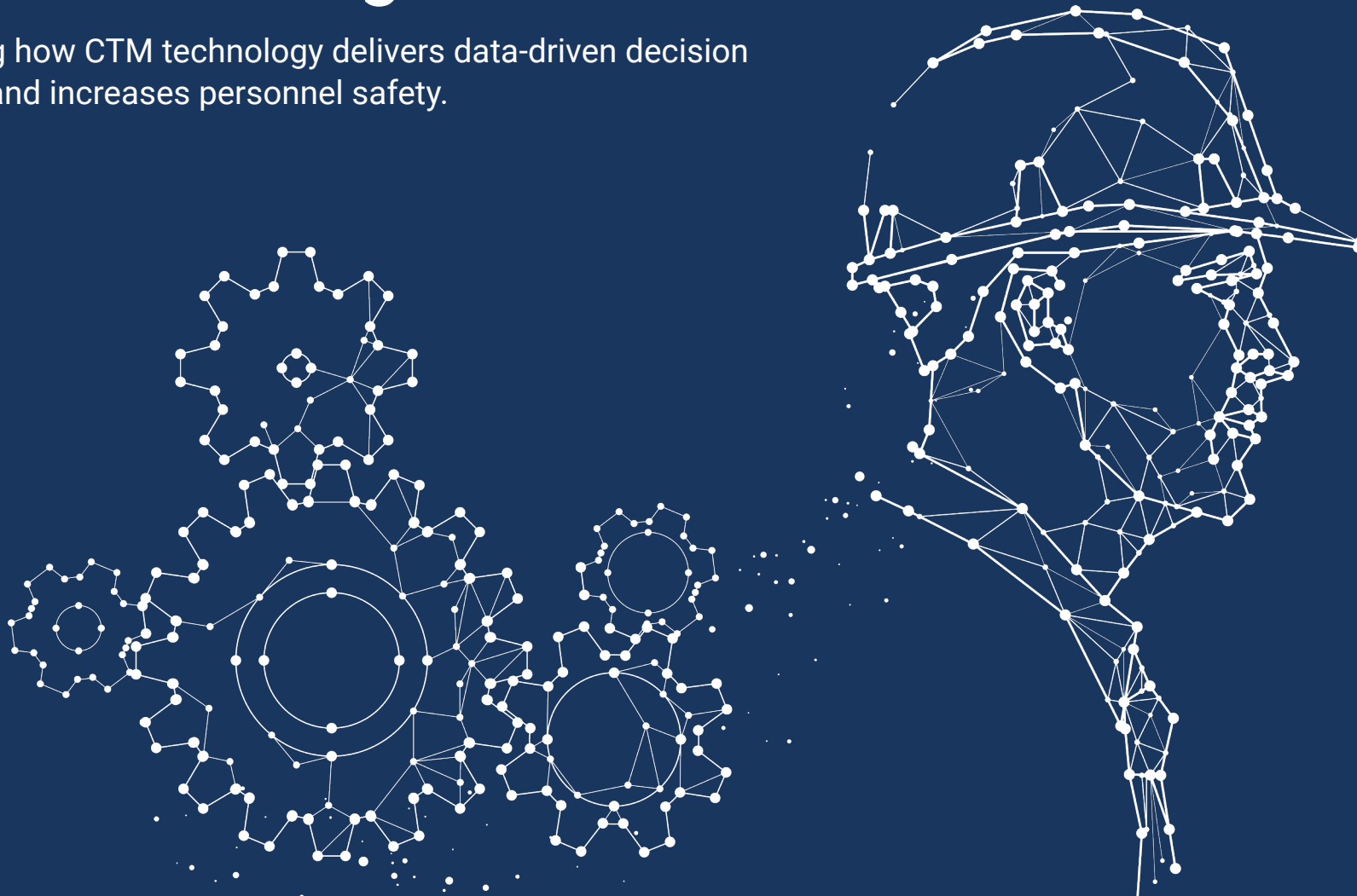




Electrical Engineers eBook

# Benefits of Continuous Thermal Monitoring (CTM) for Electrical Engineers

Exploring how CTM technology delivers data-driven decision making and increases personnel safety.



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# 01

## Continuous Thermal Monitoring

Increase personnel safety by reducing interaction with potential hazards.



## For Engineers →

Electrical engineers must maintain asset health for organizations, including data centers, oil and gas facilities, or manufacturing plants.

### Increase Safety



Creating a safe environment is essential for engineers and their teams, plus any personnel working with assets connected to an electrical power supply.

### Identify Faults



Excess heat can become a safety hazard, but continuous thermal monitoring can help to identify and prevent potential risks in advance.

# 02

## How Electrical Engineers Benefit from Thermal Condition Monitoring



**Improve safety:** advance warning of compromised electrical assets prior to personnel intervention.



**Improve efficiency:** get essential data and track trends over time to deliver efficiency improvements.



**Prevent equipment failure:** temperature monitoring identifies areas where failures are likely to occur.



**Extend the life of the equipment:** contribute to CapEx and OpEx costs by tracking asset health.

# 03

## Increase Personnel Safety

### Advanced Warning of Faults

Thermal monitoring gives electrical engineers and their teams an extra level of safety when working on-site, with advance warning of electrical faults.

### Identify At-risk Assets

Thermal monitoring provides real-time and accurate alerts which reduce the risk of teams interacting with faulty or dangerous electrical equipment



### Remote Monitoring and Analysis

Continuous thermal monitoring solutions offer remote monitoring features, enabling engineers to access real time temperature data from anywhere.

### Reduce Electrical Hot Work Risk

By identifying abnormal temperature variation, engineers can address underlying issues proactively without exposure to energized asset or other hazards.

# 04

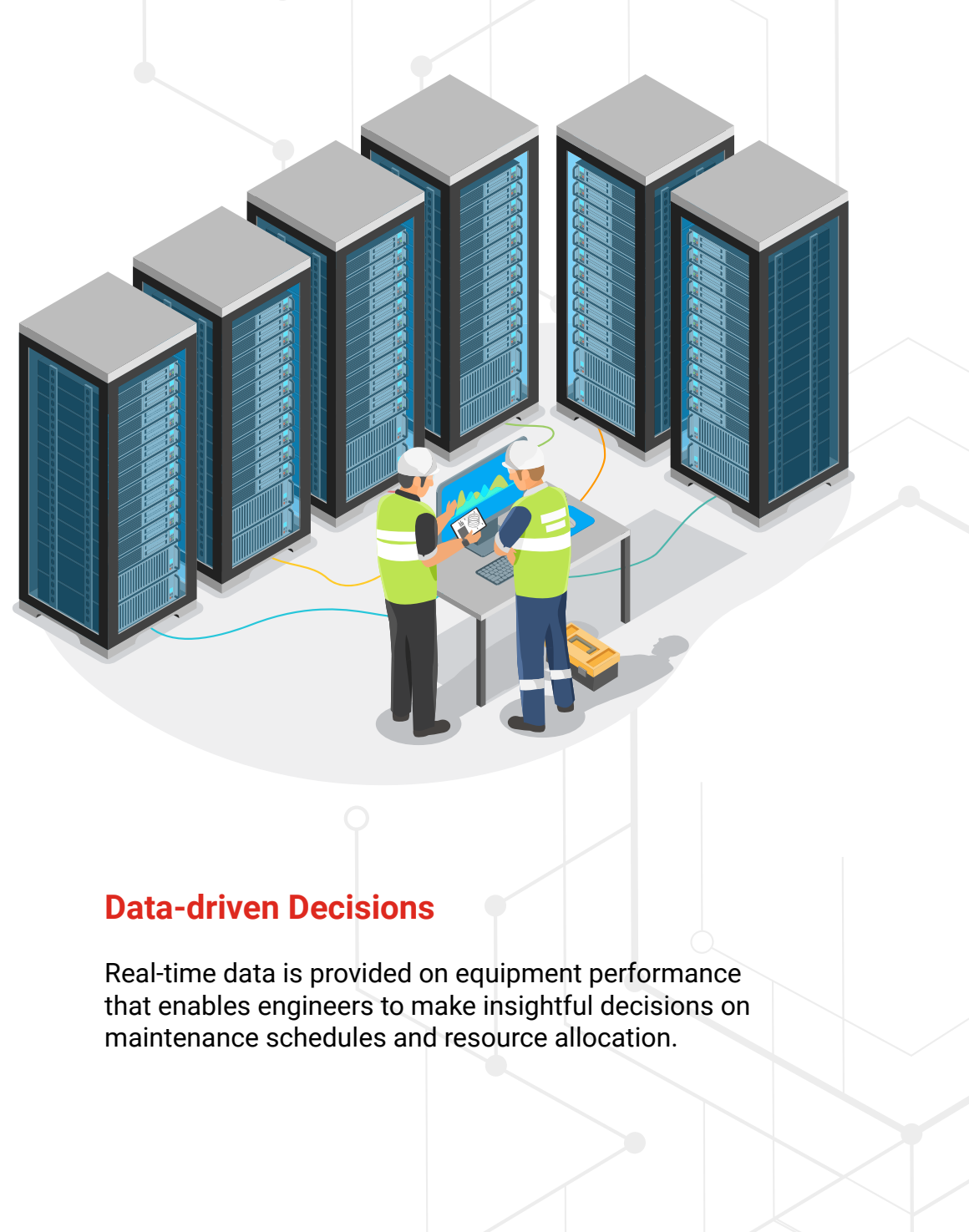
## Improve Power Efficiency

### Improve Asset Lifespan

By detecting overheating and other heat-related problems at an early stage, electrical engineers can play a role in extending the lifespan of equipment.

### Predictive Maintenance

Predictive maintenance is enabled through continuous monitoring and the creation of data, permitting timely intervention, optimizing equipment performance and reducing power outages.



### Data-driven Decisions

Real-time data is provided on equipment performance that enables engineers to make insightful decisions on maintenance schedules and resource allocation.

# 05

## How Other Personnel Benefit from CTM



### Operations

Increase operational uptime

- Maximize electrical power uptime
- Detect faults in advance of an outage
- Reduce the likelihood of asset damage associated with electrical failures
- Ensure systems remain available



### Transformation

Acquire data from electrical assets

- Continuously monitor electrical asset temperature
- Access essential asset condition data
- Utilise data in analytics dashboards for continuous improvement
- Manage risks, reduce costs, improve performance



### Finance

Increase return on asset investment

- Help protect your electrical asset investment
- Get advance warning of power failures
- Reduce the need for costly maintenance schedules
- Install fit and forget sensor technology



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