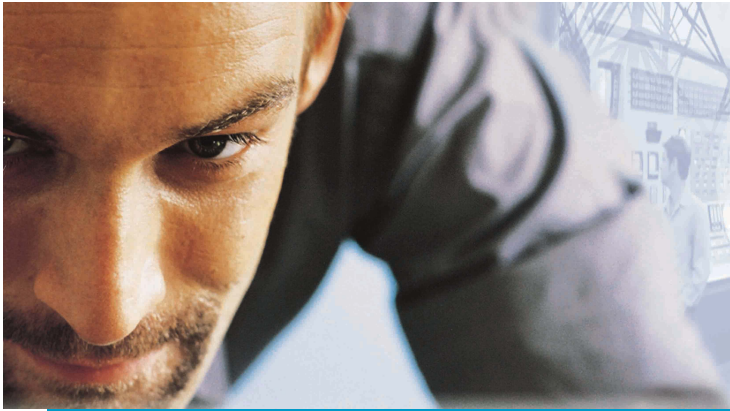


## *Data Center Environment Assessment (DCEA)*





**OPTIMIZE** efficiency, **MAXIMIZE** availability of your data center and **REDUCE** your operating cost with Data Center Environment assessment of Emerson Network Power.

## Your data center issues and challenges

- Data centers will continue to grow in number and size, as well as in watt density per square foot as existing equipment is replaced with newer and faster computers.
- Business dependency on IT computing and communication technologies are as expected more evident and pervasive today and beyond. This dependency increases the concern of the IT managers on its data center's availability and other potential risks.
- Together with the IT demand growth is the growth in heat density. As heat density increases within the data center, the ability to provide adequate cooling during power outage becomes more and more critical.
- The dynamic changes in a data center over time and due to adoption of business to newer technologies stimulate data center professionals to become interested in understanding their current and future power and cooling infrastructure needs.
- There is an on-going need to assist businesses in better understanding the dynamics, gaps and vulnerabilities in their computer room infrastructure operations to assist facility and IT managers in better determining exactly where the data center is vulnerable to disruptions or costly failures from power loss or overheating.



## Our Solution: Data Center Environment Assessment (DCEA)

Emerson Data Center Environment Assessment is an in-depth and on-site assessment of your data center. It will focus on:

- Maximizing efficiency and uptime of your data center
- Optimizing the utilization of your power and cooling infrastructure
  - Analyze the successful removal of heat from sensitive heat-generating computer equipment – identifying hot spots and risks to the data center.
  - Assess the capacity of electrical systems and the quality of power provided to your data center – identifying electrical risks that could create downtime.



## The DCEA includes:

- Facility Power Audit and Cooling Assessment
- Documentation of Findings and Recommendations
- Floor Plans and Equipment Lists
- A Computational Fluid Dynamics (“CFD”) Report
- Assessment of Equipment Expansion Potential
- In-Person Review of Report Findings

## Features and Benefits of DCEA

### Reliability

- Avoid critical equipment and data degradation by identifying unwanted hot spots
- Ensures proper capacity and quality of power
- Optimize data center layout for enhance performance
- Display airflow characteristics of your critical space
- Provide baseline reference for future expansion
- Identify problems to improve availability

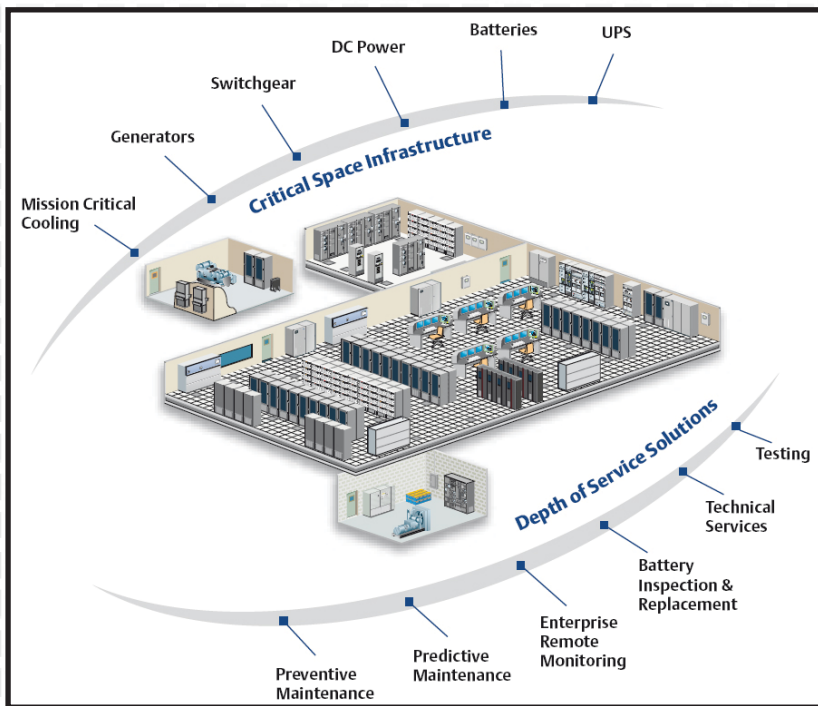
### Flexibility

- Allow effective configure of your computing and infrastructure equipment
- Gives you flexibility in the future to install power protection and distribution systems
- Illustrate various rack and equipment placements
- Present future growth scenarios

### Total Cost of Ownership

- Reduce operating costs of computer support equipment
- Drive economical planning
- Maximize availability thus reduces maintenance cost
- Reduce energy consumption

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