

# *Protecting The Critical IT Infrastructure of the United States*

*Emerson Network Power Products And Support Services*



# We Help Make Sure Systems Are Available – IT Support Services Offered By Liebert

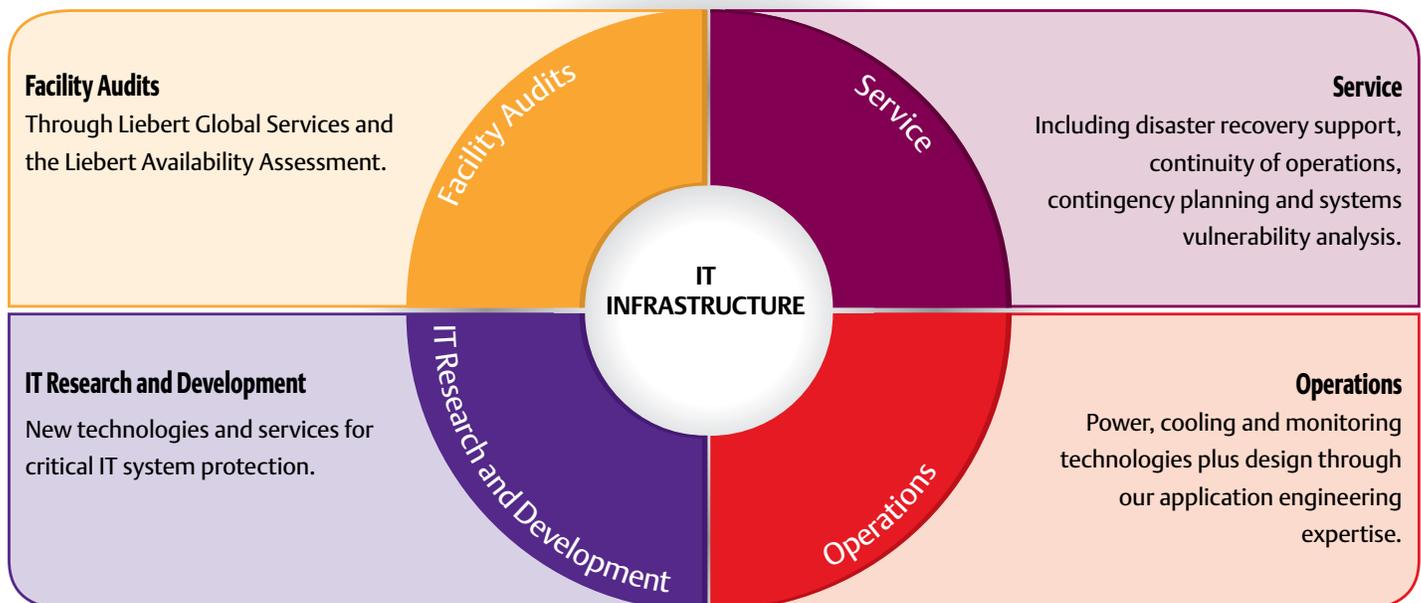
**Safeguarding the Information Technology component of the nation's Critical Infrastructure and Key Resources requires a highly specialized set of equipment and expertise.**

Your organization's information technology expertise lies in the hardware, software and project management you supply for your government customers.

Emerson Network Power's expertise lies in our ability to provide the critical power protection and environmental control infrastructure and related services that are critical to the operation of these computing, network and communications systems. We are the premier provider of support equipment, services and critical space

know-how that will enhance your overall IT solution offering. We have the people and proven capabilities already in place to handle all aspects of your critical IT infrastructure support needs – whether they involve new installations, retrofits or the servicing of third party equipment. Because of the importance of reliability and security to these critical IT operations, the need is greater than ever to work with a supplier who has the knowledge, experience and capability to protect the infrastructure that supports this technology.

## EMERSON'S PRIMARY AREAS OF INVOLVEMENT WITH THE CRITICAL IT INFRASTRUCTURE INCLUDE:





## Facility Audits – Integrated Solutions

Through Liebert Global Services, Emerson Network Power offers a unique set of facility audit capabilities all designed to provide a clear and comprehensive view of your critical IT infrastructure in terms of power and cooling availability. These include:

### Benchmarking/Operational Capability Demonstrations

Liebert will demonstrate how advanced power, cooling and monitoring technology can provide significant enhancement in priority capability areas. This includes the ability to track power and cooling system performance.

### Information Management Life Cycle Planning/Support

Liebert can help analyze the power and cooling systems that support the distribution of all data and information within an organization. The **Liebert Availability Assessment** (see sidebar) provides a framework for analyzing the availability of IT networks.

To help lower overall cost of ownership, the **Liebert Adaptive Architecture** approach combines power, cooling and monitoring technologies that can be configured – and reconfigured – to meet changing needs in the data center, computer room and network closets.

### Information Technology (IT) Strategic Planning, Program Assessment and Studies

Liebert can supply the resources to support the development, analysis and implementation of IT strategies, architectures, program planning and assessment, and other requirements. We can also offer site assessment expertise and planning for growth using the Liebert Adaptive Architecture approach.

### Information Technology Architecture Support

Each federal agency is required to create Information Technology Architectures. Liebert can be involved in the design and implementation of the power, cooling and monitoring that supports this new architecture.

### Infrastructure Quality Assurance

Liebert can assist in implementing facility-based reliability strategies.

### THE LIEBERT AVAILABILITY ASSESSMENT

The Liebert Availability Assessment, a service designed to help organizations identify and resolve risks to the availability of their IT networks. Liebert Availability Experts provide analysis and specific recommendations for improving power and cooling protection strategies to help ensure operating solutions.

By generating specific metrics, including risk scores, downtime tolerance, disruption costs and other measures, the assessment service provides a business impact analysis of your current IT network power availability. It also provides a gap analysis of risks and vulnerabilities, with recommendations to help you protect against those potential failures. Areas of IT support include:

- Information Assurance Activities
- Independent Verification and Validation
- Information Technology (IT) Strategic Planning, Program Assessment and Studies
- Information Technology Architecture Support



## *Service – Disaster Recovery, Information System Security*

**Provides for continuity of operations and contingency planning support.**

### **Critical Infrastructure Protection**

Liebert power and cooling systems provide the protection of information technology infrastructure that forms the framework of interdependent networks and systems.

### **Hot-site and Cold-site Support Services**

Liebert Global Services assists in providing power and cooling design for disaster recovery sites and network resources.

### **Incident Response Service (INRS)**

Liebert's service and remote system monitoring capabilities will help in responding to blackouts, national disasters, equipment failures and human intervention and other situations that can lead to service disruptions.

### **System Recovery Support Services**

Liebert can provide personnel resources to ensure a system recovery capability that will support Government goals and objectives. These include equipment inspection, repair and replacement services as well as field support. We can also set up a command center and assist in redirecting operations if necessary.

### **Independent Verification and Validation**

Liebert offers the technical resources to define, develop and conduct independent validation and verification of systems.



### **SYSTEMS VULNERABILITY ANALYSIS/ASSESSMENT AND RISK ASSESSMENT**

#### **Vulnerability Scanning Service (VSS)**

The Liebert Availability Assessment program and site power quality audits help agencies to conduct effective and proactive assessments of critical networking and wireless environments — and correct vulnerabilities before they are exploited. Helps to guard systems and network infrastructure against emerging threats.

## Operations – Systems And Network Support

Emerson Network Power delivers comprehensive infrastructure support in all aspects of critical IT facility development by offering a full range of IT solutions, including products, value-added services and design capabilities.

### Mainframe/Data Processing System Support

Power, cooling, monitoring and service for major data center and computer room installations.

### Network Support – including Interdepartmental Data Network (IDN), Local Area Networks (LAN), Wide Area Networks (WAN), Internet access and Wireless

Power, cooling, monitoring and service for all types of data networks and network control centers.

### Telecommunications Support

Installation, enhancement, operation and maintenance of existing and new telecommunications systems, including Voice over IP.

### Technical Support

Specialized services to provide solutions and improve productivity.

### Training, Training Development, and Training Center Support (including Computer Based Training)

Power systems training on proper operation and maintenance.



### OUR RANGE OF PRODUCTS AND SERVICES INCLUDES:

#### Uninterruptible Power Supply Systems

Single and three-phase systems ranging from 300 VA up to 1000 kVA.

#### Power Conditioning And Distribution Systems

Designed to provide quality power and deliver it efficiently to each piece of equipment.

#### Precision Air Conditioning

In capacities from 1 up to 65 tons.

#### Enclosure Systems

Specialized rack-enclosures for sensitive electronic equipment.

#### Facility-Wide Surge Suppression

Up to 4000 Amps.

#### Liebert Global Services

A complete range of critical space services, including installation and start-up, emergency service and predictive/preventive maintenance

#### DC Power Systems

For communications and telecom applications.

#### Switchgear

Automatic transfer switches and power systems for emergency and standby power applications.

#### Cables and Connectors

For high-speed data transmission and radio frequency applications.

#### Critical Space System Monitoring

Monitoring and control solutions for power and environmental systems.

#### Wireless Systems Towers

To support wireless transmission antennas.



## *IT Research and Development – Emerging Technologies*

**Research and development of new power, cooling and monitoring technologies used to protect the critical IT infrastructure is essential to meeting Federal Government requirements.**

### **Research With A Purpose**

Emerson Network Power has made a company-wide commitment to state-of-the-art testing equipment and facilities, including laboratories designed specifically to test high heat density cooling processes. Sophisticated electrical load testing and analysis is used in the development of new power products.

We are developing cooling products that meet the new environmental guidelines for data centers set forth in the ASHRAE document, “Thermal Guidelines for Data Processing Environments.” These standards provide a roadmap for environmental conditions and protocols that will result in a reduction in thermally related IT equipment faults, an increase in reliability and the potential for more energy efficient facilities. Further research into more efficient methods of cooling and power protection is also being made possible by grants from the U.S. Department of Energy.



### **A Unique Set Of Resources**

Emerson Network Power is the leader in developing the most reliable power, cooling and connectivity solutions for critical facilities. From the connection to the power grid all the way to the critical equipment in your customer's IT and telecommunications facilities, no one knows more about assuring system availability than we do.

We have the research capability, technology expertise, global reach and breadth of products and services to utilize new and innovative technology to build and maintain the entire IT network support infrastructure.

With many of the leading names in the industry making up the Emerson Network Power Group — such as Liebert, ASCO, Emerson Energy Systems and others — you are always assured of getting the right solution and the highest possible quality in both products and services.



# Emerson Is The Industry Leader In Critical IT Infrastructure Support

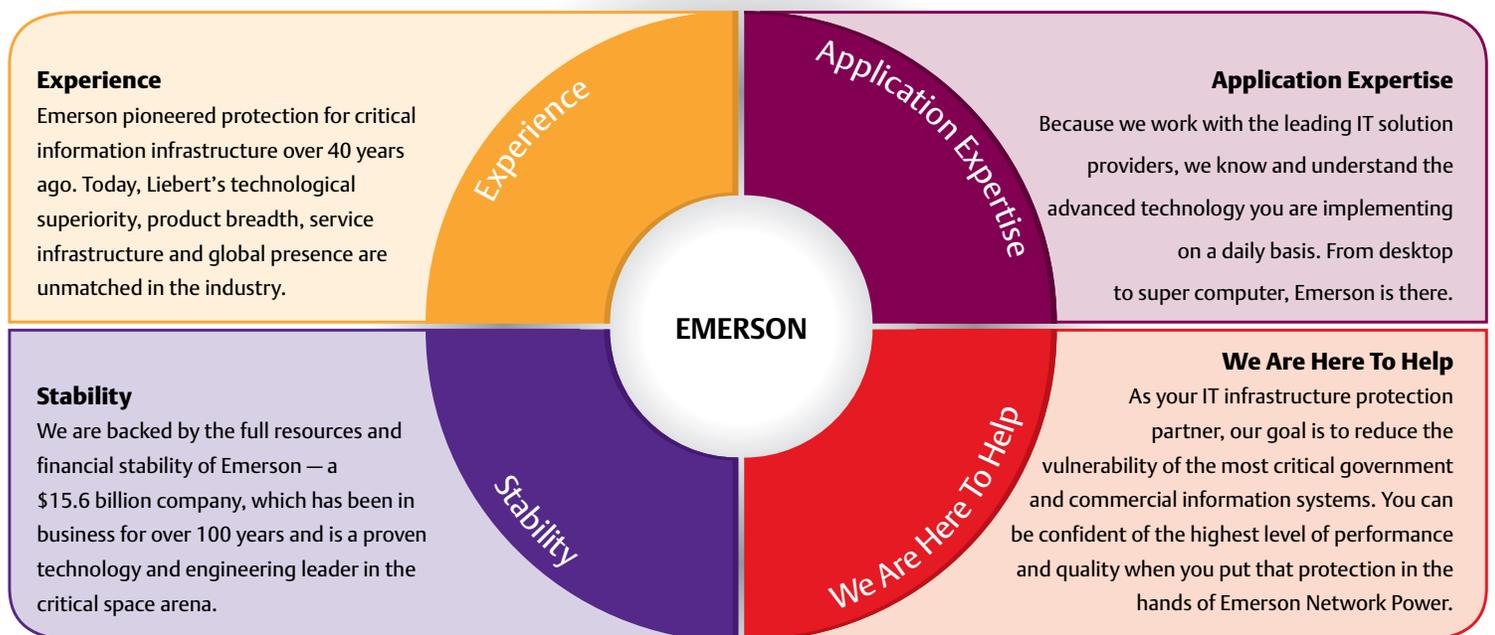
No matter what segment of government you are involved with — federal, state, local — the information systems you supply are subject to many threats that can adversely affect their performance. From distributed desktop installations to large centralized data centers, today's government runs on a steady stream of information. Protecting the operation of these IT systems to ensure the integrity and accuracy of this vast information base is absolutely necessary.

## Everything You Need To Protect The IT Infrastructure

Emerson Network Power is recognized around the world for its unequalled expertise in the protection of computer rooms and other critical spaces. From precision environmental control to uninterruptible power to critical space monitoring, we have the proven capability to deliver maximum availability. We are uniquely positioned to handle this portion of the total IT contract, enhancing your core offerings with a quality solution, while allowing you to maintain profitable business with additional income.

## A Total Package Of Product And Service Solutions

Emerson ensures the availability of the nation's most critical information systems — with solutions in place at all levels of federal, state and local government and 498 of Fortune 500 companies.



# Ensuring The High Availability Of Mission-Critical Data And Applications.



Emerson Network Power, the global leader in enabling business-critical continuity, ensures network resiliency and adaptability through a family of technologies — including Liebert power and cooling technologies — that protect and support business-critical systems. Liebert solutions employ an adaptive architecture that responds to changes in criticality, density and capacity. Enterprises benefit from greater IT system availability, operational flexibility, and reduced capital equipment and operating costs.

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## Emerson Network Power.

The global leader in enabling business-critical continuity.

- AC Power Systems
- Embedded Power
- Outside Plant
- Connectivity
- Power Protection
- Precision Cooling
- DC Power Systems
- Integrated Cabinet Solutions
- Site Monitoring and Services

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