Safeguarding Our Information Infrastructure

Liebert: Your Partner In Assuring IT Systems Availability

ᐤ Liebert.

EMERSON™
Network Power

Protecting The Taxpayer's IT Investment
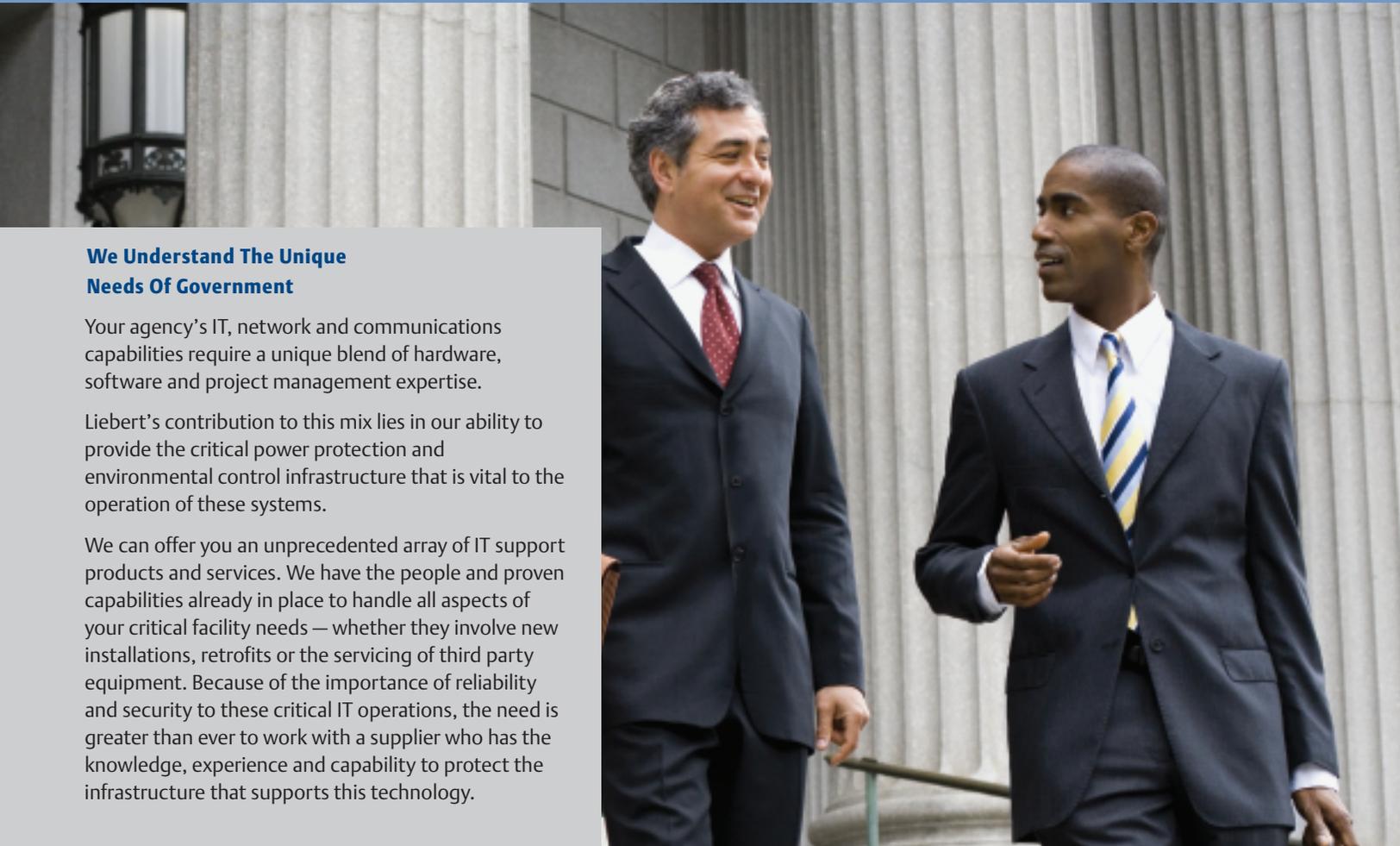
We Understand The Unique Needs Of Government

Your agency's IT, network and communications capabilities require a unique blend of hardware, software and project management expertise.

Liebert's contribution to this mix lies in our ability to provide the critical power protection and environmental control infrastructure that is vital to the operation of these systems.

We can offer you an unprecedented array of IT support products and services. We have the people and proven capabilities already in place to handle all aspects of your critical facility 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.

Raising The Standards Of IT Systems Availability

Different applications have different requirements in terms of criticality, power demands, heat load and other criteria — especially as the trend toward data center consolidation increases reliability considerations. Liebert has the products and systems that will adequately meet these needs according to the desired tier of availability.

INCREASED CRITICALITY

TIER 4

NO DOWNTIME

Accepted Annual Downtime:
0.3 - .03 seconds

TIER 3

INCREASE UPTIME

Accepted Annual Downtime:
5.3 minutes - 3.2 seconds

TIER 2

PRESERVE DATA

Accepted Annual Downtime:
53 minutes

TIER 1

PROTECT HARDWARE

Accepted Annual Downtime:
8.8 hours

INCREASED CONSOLIDATION

INCREASED AVAILIBILITY

A Commitment To Energy Efficiency

Working closely with many of the major IT equipment manufacturers, Emerson Network Power and Liebert are committed to designing and manufacturing products that meet government requirements for energy usage and critical system availability.

Why You Should Turn To Liebert

IT systems are now being upgraded from the massive Y2K implementations made nearly a decade ago. The realities have changed, however. Today, government agencies are affected by data center consolidation, which includes their own department's usage as well as sharing capacity with others. The result is a drastic increase in the need for higher availability.

As part of Emerson Network Power, Liebert is the industry's premier source of IT cooling and power solutions with the widest range of protection technologies and the ability to successfully apply them to your operations in the most cost-efficient manner. We also have the knowledge and understanding of the government procurement process necessary to work within your purchasing guidelines.

Continuity Of Operations Starts With Comprehensive IT Infrastructure Protection

In the post-9/11 world, disaster response and emergency service are an even more important factor than ever before — especially when it comes to maintaining the power and cooling infrastructure that supports these critical IT systems. Not only does Liebert understand how to implement the desired level of infrastructure protection — we also have the resources to keep it operating under any conditions.

The Liebert Adaptive Architecture:
The Protection Needed Today.
The Flexibility Demanded Tomorrow.

Liebert Adaptive Architecture is a family of products and technologies designed to adapt to changes in technology or business environments, while maintaining, or improving, availability and efficiency.

With solutions that extend from flexible, reliable Uninterruptible Power Supplies (UPS) to scalable and efficient power distribution systems to intelligent, reconfigurable cooling solutions, Liebert Adaptive Architecture gives you the power to manage changing IT systems and business requirements.

The Liebert Adaptive Architecture approach utilizes a design philosophy and engineering that delivers:

- Technologies that are scalable in capacity and redundancy in an efficient modular package.
- A modular system configuration allowing for common technologies in retrofit or green field (undeveloped) sites.
- Products and systems which can be reconfigured after installation.
- Zero-U footprint designs allowing added capacity without reconfiguring floor space.

Flexibility:	Higher Availability:	Lowest Total Cost Of Ownership:
Products or systems can be reconfigured or added to meet the demands of new technologies, achieve higher protection results and adapt to growth/changing business requirements.	Proven technologies and system designs minimize single points of failure or downtime in your IT systems. So your network is ready, when you need it to be. .	Philosophy that what costs more now will pay off in the long run. The efficiency and ability to adapt to change or expansion extends the life span of Liebert technologies. Saving you money in the future.

Each Agency Within The Government Has Its Own Unique Needs For System Protection

No matter what segment of government you are involved with — federal, state, local — your information systems are subject to many threats that can adversely affect their performance. Liebert is uniquely positioned to handle this portion of the total IT contract — from protecting a single piece of equipment, to an entire facility:

Government Agencies

Whether it's a desktop installation, large centralized data centers or *VoIP (voice over Internet protocol)* communications, today's government depends on its digital infrastructure. Protecting the operation of these systems to ensure the integrity and accuracy of this vast information base is absolutely necessary. Precision cooling, uninterruptible power and critical space monitoring are all required to assure maximum availability.

Defense Applications

Some of the most critical work performed by the government involves defense, military and security operations. Sensitive electronic computing and communications equipment is used by our military throughout the world. Whether it's an information technology application such as a *supercomputer installation*, protecting a critical security system, providing power for a major communications network or safeguarding a network used in a large warehouse — assuring around-the-clock availability of these operations cannot be left to chance.

Education

The information superhighway is running straight through classrooms across the nation. IT in education includes not only individual PCs in the classroom, but *networks connecting entire school systems*. The need for availability is increasing as new networks are being installed to handle higher bandwidths and data center consolidation is taking place to increase cost-efficiency.

On the university level, computing systems are involved in critical research as well as key administrative tasks. Large-scale VoIP communications systems are also being implemented to provide telephone and data network services to dormitories and other campus facilities.

Medical And Hospital Facilities

From VA facilities caring for those who've served our country to the large teaching hospitals found at state universities — government-run medical facilities have a need *to protect both patient information and other equipment operating* within these facilities.

These institutions depend on the availability and storage of large amounts of information. They also utilize sophisticated pieces of medical diagnostic equipment — CT, MRI, PET, linear accelerators, electron microscopes, gas chromatograph, cryogenic compressors — that may require both power protection and dedicated cooling to assure proper operation.

Disaster Recovery Services And Information System Security

As a first responder in emergency situations, Liebert provides a broad range of IT power and cooling infrastructure services designed to provide for continuity of operations (COOP) 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 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, 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.

Why You Should Look To Liebert For IT Facility Support

Customer Intimacy

We have extensive experience working with government agencies and are already familiar with the people and their way of working. We're trusted by such governmental entities as the Pentagon, the U.S. Armed Services, the CIA and FBI to protect their most critical applications.

Experience

We have extensive experience in the IT field — that means no learning curve. Emerson Network Power is the recognized leader in delivering critical space protection solutions to network providers. No one can match our technological superiority, product breadth, service infrastructure and global presence. This unequalled industry expertise makes Emerson Network Power your logical partner for IT contracts.

Application Expertise

Because we are at the leading edge of critical system protection, we know and understand the advanced technology you are implementing for new types of facilities such as high-density server installations or the decentralization of systems to enhance the security of information.

Wherever Support Is Needed

We are uniquely positioned to provide these solutions on a local, national and global basis with integrated capabilities in over 30 countries. In addition to servicing our own products, we can also maintain equipment manufactured by other companies.

Our Range of Products

Uninterruptible Power Supply Systems
single-phase and three-phase systems ranging from 300 VA to 1000 kVA including paralleling capabilities.

Power Distribution
available in a range of sizes and configurations to support efficient and flexible power distribution from the UPS to critical equipment.

Cables and Connectors
for high-speed data transmission and radio frequency applications.

Power Conditioning
for applications requiring protection from electrical line problems without the need for back-up capability.

DC Power Systems
for communications and telecom applications.

Switchgear
automatic transfer switches and power systems for emergency and standby power applications.

Racks
specialized enclosures for sensitive electronic equipment.

Wireless Systems Towers
to support wireless transmission antennas.

Facility-Wide Surge Suppression
up to 4000 Amps.

Precision Air Conditioning
in capacities from 1 to 65 tons

High Density Cooling
in a wide range of capacities and configurations to target hot spots and rack cooling within high density data centers.

As your IT facility protection partner, our goal is to enhance the performance of the critical systems you supply to your government customers. You can be confident of the highest level of performance and quality when you put that protection in the hands of Emerson Network Power and Liebert.

We Will Be Here Today And Tomorrow

We are backed by the full resources and financial stability of Emerson — a $20.1 billion company, which has been in business for over 100 years and is a proven technology and engineering leader in the critical space arena.

Doing Business Through Small Businesses

Our local representation through independent organizations enables you to partner with small businesses that are capable of delivering Emerson's full range of products and services while meeting contract requirements.

The Best Solutions In The Marketplace

Because the companies of Emerson Network Power are leaders in the markets we serve, you can always count on receiving the best solutions for your specific IT facility needs.

Our Range of Services

Installation and Start-Up
total turnkey capability.

Warranty Service
full support during standard and extended coverage periods.

Predictive/ Preventive Maintenence
includes all the services required to keep your equipment running at maximum efficiency.

**24 x 7 Remote Monitoring facility support**
provides continuous oversight of critical facility support systems.

Emergency Service
response in hours, not days

Site Power Audits
facility power quality survey examines current performance, design readiness and safety.
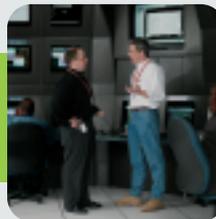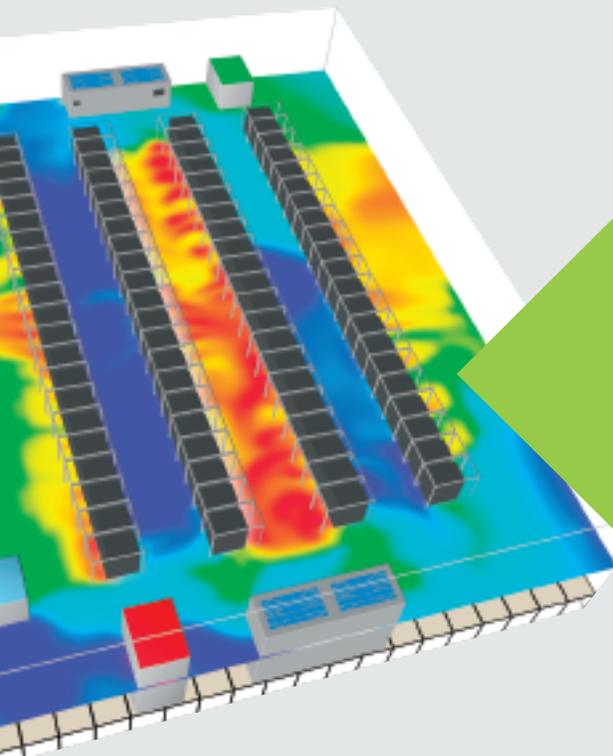
Local Design Services:

Local Representatives
a nationwide network of experts in the delivery of protection solutions to mission-critical operations.

Computer Room Design
specialists in the planning, design and construction of data centers.

Software Services:

Building Management Systems
monitoring and control for facility management and security.

Critical Space System Monitoring
monitoring and control solutions for power and environmental systems.

Power Metering
real-time voltage and current measurement of single and three-phase power

*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	■ Embedded Computing	■ Outside Plant
■ Connectivity	■ Embedded Power	■ Power Switching & Controls
■ DC Power	■ Monitoring	■ Precision Cooling

EmersonNetworkPower.com

■ Racks & Integrated Cabinets
■ Services
■ Surge Protection