In today’s world, reliable data is the lifeblood of business. Many companies depend upon high speed systems that process and store data in a variety of ways, as well as lightning-fast networks that give users instant access. Internal resources are often insufficient to meet an enterprise’s data needs, causing them to partner with a company that offers comprehensive solutions.

Peak 10, Inc. is America’s leading independent data center operator and managed services provider. Its services allow companies to lower costs, improve service levels, meet regulatory requirements and increase revenue growth by maximizing internal IT resources and ensuring the security and availability of a complex technology infrastructure. Its array of services includes:

- **Data Center Services** - providing hardened infrastructure and scalable solutions including colocation, bandwidth and Metro Ethernet that lower costs and maximize internal resources.
- **Manage Hosting** - offering the management and monitoring of operating systems and applications, patch management, managed backup, and reporting. Complete with a highly-available core network, redundant enterprise firewalls, access layer switches and electrical circuits to each server.
- **Disaster Recovery** - supplying reliable services and complete redundant architecture with automatic traffic redirection and hot site mirroring to offer a more complete business continuity solution.
- **Cloud Services** - providing customizable solutions in a private or enterprise format, coupled with expertise that allows companies to leverage the power of the cloud based on their specific needs.

To provide these and other services, Peak 10 owns and operates numerous high-performance data centers. All data centers are engineered with multiple levels of security, uninterruptible power, redundant HVAC systems, fire suppression and around-the-clock monitoring and management. Peak 10 selected Generac’s Modular Power System (MPS) to provide

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**MPS Ensures Peak Performance and 24/7 Reliability for Leading Data Center**

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**Peak 10, Inc.**

**Locations**
- Charlotte, North Carolina
- Jacksonville, Florida
- Tampa, Florida
- Cincinnati, Ohio
- Nashville, Tennessee
- Atlanta, Georgia

**Market**
- Data Center

**Unique Obstacle**
To provide full back-up power coverage at multiple Data Centers in the event of an extended utility power interruption

**Units**
- 2000+ kW Modular Power Systems (4 x 500 or 600 kW Gensets in Parallel, Diesel)

**Solution**
Generac’s onboard paralleling system allows the MPS to combine the output of 2 or more generators without the complexity or cost of traditional paralleling equipment, significantly improving reliability. MPS uses smaller engines and service is easier.

**Contact**
Readers who may have similar application challenges and would like to discuss this success are invited to call 1-844-ASK-GNRC (1-844-275-4672)
CASE STUDY: PEAK 10, INC.

full backup power coverage at several of its
data centers in the event of an extended
utility power interruption. Working with
National Power Corporation, the Generac
Industrial Power dealer in Charlotte, N.C.,
Peak 10 installed an MPS at its data centers
in Charlotte; Jacksonville and Tampa, Fla.;
Cincinnati, Ohio; Nashville, Tenn.; and
Atlanta, Ga.

Peak 10 cited the advantages of
redundancy and scalability in an MPS as
key to its decision to choose Generac.

“All Peak 10 systems are mission critical, so
redundancy is essential,” said Jeff Biggs,
Executive Vice President and Chief
Technology Officer, Peak 10. “Generac’s
MPS provides N+1 redundancy at a fraction
of the cost of multiple large generators in a
traditional paralleling configuration.”

Generac’s onboard paralleling system
allows the MPS to combine the output of
two or more generators without the
complexity or cost of traditional paralleling
equipment. If one generator fails, the most
critical loads are redistributed among the
other units in the system, significantly
improving reliability. Given typical
applications and load factors, the load
requiring the highest degree of reliability is
often only a fraction of the total generation
capacity. As such, redundancy is achieved
without the addition of costly under-utilized
generators.

Increasing the capacity of an MPS is as
simple as adding another modular
generator. Most of the Peak 10 sites feature
four 500 or 600 kW MPS diesel gensets,
with room for an additional unit as capacity
needs increase.

“Serviceability is better, too, because we can
take a unit offline for service and still have
full capacity,” Biggs said. “And because
MPS uses smaller, more common engines,
service is easier and parts are more readily
available than for larger, more specialized
generators.”

The use of common engines also results in
shorter lead times. “Generac provided a
means of acquiring our needed capacity in
a short time frame—just 18 weeks
compared to a full year for systems from
other manufacturers,” Biggs added.

Modular Power Systems can be configured
using 100–600 kW diesel, gaseous-fuel or
Bi-Fuel® generators, allowing for solutions
ranging from 200 kW to 6 MW. The flexibility
of MPS allows generators to be arranged
side by side, end to end, in separate
locations around a building or even on a
rooftop—a real advantage if space is limited.

Peak 10 has found MPS to be a very
effective solution for its standby power
requirements. “The units are very fast to
start up and parallel,” Biggs says. “During
commissioning we run each system at
110% of the nameplate load, so we know
they can deliver all the power we need, and
the lead time necessary for installing and
commissioning the system.”