

Prepare for the Power and Cooling Demands of High Density Systems

SGI[®] Energy Efficiency

HIGHLIGHTS

Prevent or eliminate costly power and cooling problems associated with introducing or operating high density systems

Data center readiness for the seamless integration of new technologies and eliminate surprises or obstacles that can occur

Reconcile the need for more power and cooling with goals and objectives for “green” operations

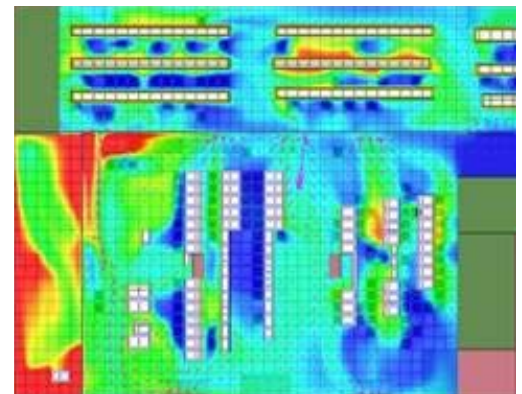
Expert consulting from a company with extensive knowledge of HPC environments

Inadequately designed power and environmental infrastructure can have a major impact on the day-to-day operation and overall life expectancy of your data center’s computing infrastructure. Best practices are critical in today’s economic and regulatory environment to assure your data center is running optimally, you have sufficient power and space for your operations, and you are meeting corporate or governmental Green goals.

SGI’s Energy Efficiency Assessment targets energy issues in today’s data center. Questions you may have on your environment can be answered with an Energy Efficiency Assessment from SGI:

- Is my data center “healthy” enough to bring in new technology
- Am I under-cooled, over-cooled, or just right
- Do I have enough available power to handle growth plans
- What is causing hot spots and how can they be cured
- What is the consumption cost of my IT equipment, UPS and air conditioning system
- Are there really simple changes that can be implemented that will lower the cost of running my data center

With SGI’s Energy Efficiency Assessment, you get an analysis of your current power and cooling capacity and utilization as well as recommendations to optimize your current infrastructure and to plan for future growth or consolidation. We measure the energy usage of your environment, compare your energy efficiency to industry standards, and identify opportunities for improvement. You receive a detailed diagnosis of your existing data center conditions as



well as capacity planning details, facilities utilization and health, monitoring, power, and infrastructure. We help you create the business-case justification to prioritize improvements for energy savings and give you a framework for infrastructure decisions.

An optimized data center design increases performance, extends the life of your hardware, and provides the optimizations needed in today’s environment.

SGI’s Energy Efficiency Assessment will position you for a data center that meets your user and operational business requirements.

SGI® Energy Efficiency

www.sgi.com/storage

Complete Service for an Energy Efficient Environment

SGI's Energy Efficiency Assessment follows a phased approach. Our Professional Services consultants work with you to fully understand your business requirements. Through a combination of telephone and onsite interviews with your Facilities and IT personnel, they collect the necessary data on your current data center environment and your future needs. Information such as space utilization, power distribution systems, current power and cooling capacity, energy utilization, and future growth plans are considered. We then deliver to you a customized report tailored to your requirements.

A Proven Delivery Methodology

SGI's Energy Efficiency Assessment relies on a proven methodology that applies data center industry best practices at every level in the process.

An Unmatched Set of Resources

SGI Offers:

- A comprehensive service for assessing power and cooling needs in the data center
- A packaged assessment service to quickly assess and provide recommendations for efficiencies
- Deep technical knowledge in high-performance computing combined with extensive experience in designing and delivering data center environments

To Learn More

For more information about SGI's Storage Assessment and other services in SGI's portfolio of Professional Services, contact your SGI sales representative.

Successes

Solving High Energy Bill Issues

A Bay Area high tech company's data center experienced significant cooling challenges and as a result higher than desired energy bills. Their older data center rack layout was a major contributor to the problem. An SGI Energy Efficiency Assessment revealed that the placement of the racks caused the CRAC units to work harder to keep the room cool. Recommendations to reposition rack placement to improve air flow and separation of hot and cold air lowered the cooling needs and the resulting energy bill.

Consolidating Systems is an Opportunity for Efficiency

A North American customer undertook a project to consolidate systems from multiple facilities into one existing data center. They had concerns about the power in the data center and wanted to update the power systems to be able to scale up, be more efficient, add monitoring, and have a solid backup and failover power capability. SGI reviewed their requirements and through our Data Center Assessments provided recommendations and implemented changes to meet their needs.



SGI Professional Services delivers a unique convergence of technology, innovation, and expertise for exceptional business results

Corporate Office
46600 Landing Parkway
Fremont, CA 94538
tel 510.933.8300
fax 408.321.0293
www.sgi.com

North America +1 800.800.7441
Latin America +55 11.5185.2860
Europe +44 118.912.7500
Japan +81 3.5488.1811
Asia Pacific +61 2.9448.1463