sgi®

SGI Green Storage

High Capacity, Space Efficient storage in a GREEN package
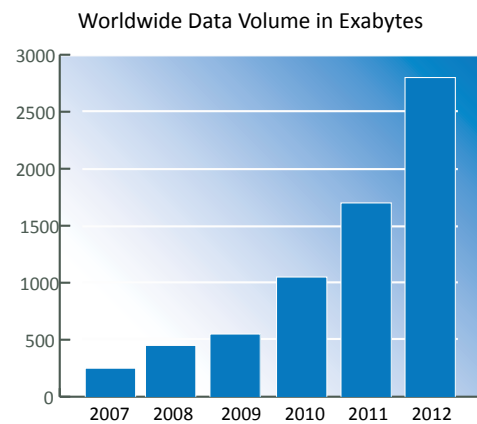
Compound growth is driving storage expansion in the data center.

According to analyst firm IDC, worldwide data volumes reached 281 exabytes in 2007. This was 10% higher than expected. And they also predict data growth of 10 times in the next five years. On a worldwide basis, in 2012, IDC predicts that the growth of data will be more than twice the total amount of data we now manage and about four times what we managed in 2007.

Although your organization may not be dealing in exabytes, it's the scale of growth that will almost certainly impact you. And it is probably not an IF, it's a WHEN.
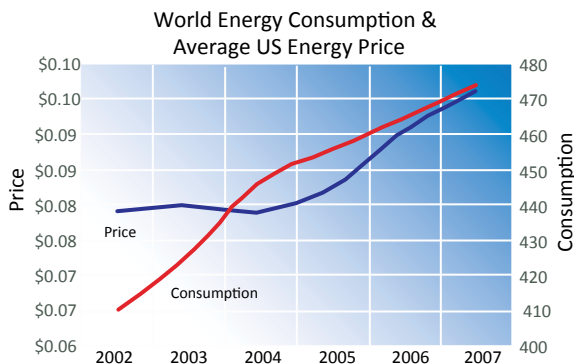
Storage is becoming the #1 power consumer in the data center and is a major consumer of floor space

Consumption is outpacing pricing at an astounding rate. Between 2006 and 2007, the energy required by data centers jumped more than 13 percent according to market researcher IDC. Electricity pricing rose an average of 9% from 2006 to 2007 with the cost to power and cool installed equipment in the data center doubling since 2000 and is expected to reach almost $40 billion by 2012. The rising cost of electricity coupled with rising demand will have an exponential effect on the IT Energy bill.

Worldwide Data Volume in Exabytes

The Solution

Presenting the 60-drive bay configuration of the SGI InfiniteStorage 4600. This solution provides enterprise reliability in a Green form factor. SGI is uniquely positioned to provide this class of solutions; for over 25 years, SGI has been providing solutions for our customers. SGI's core focus has been to push the leading edge of efficiently creating, managing, and visualizing massive amounts of data. This experience in intensive data management has driven SGI to realize efficient solutions beyond the server system. With so much focus on the efficiencies of server power, the market is only slowly beginning to realize that the real data center energy consumers are disk arrays. With the introduction of the 60-bay form factor for the SGI InfiniteStorage 4600, SGI delivers an extremely efficient storage system designed for the rigors of the enterprise data center.

World Energy Consumption & Average US Energy Price
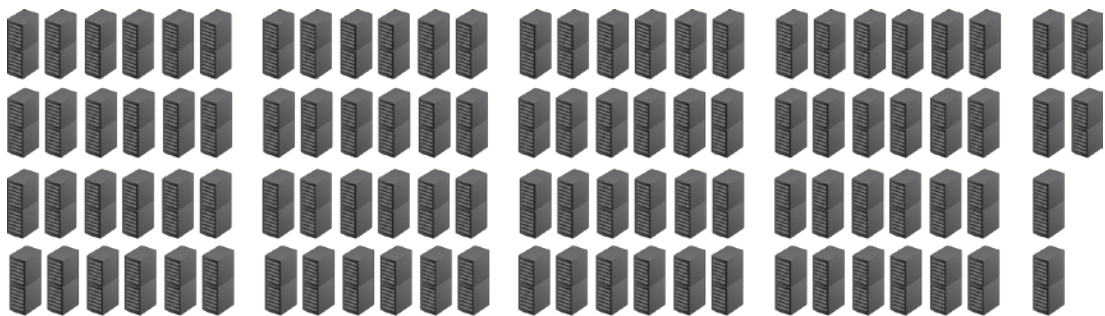
Green Technology and Operational Efficiencies

Data Center costs are an escalating issue. The amount of data being generated and stored continues to grow. It is not uncommon for large HPC sites to produce terabytes of data per week, or in some cases per day. With this growth comes the expense of powering and cooling the IT systems generating, utilizing and storing data. How can you control your IT budget while supporting growth, maintaining the same data center footprint, and improving performance?

The IS4600's unique design answers this need. More storage - less space. More drives, highly efficient power supplies, and less of the ancillary equipment such as controllers and fans all driving towards an innovative green design that meets the user demands.
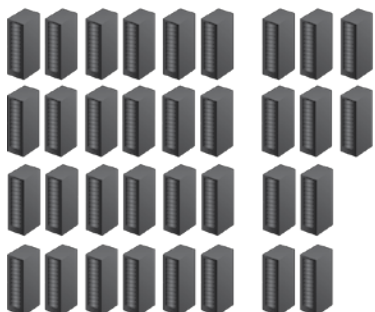
How SGI can help you

SGI's provides support for the full customer environment with green storage solutions that fit any business need. Our knowledge and expertise storage, data centers, and Green technologies will ensure you get the solution that fits the technology answers you are looking for. To find out more about how customers are using SGI solutions for storage and storage management to raise productivity, lower costs and minimize risk, please visit www.sgi.com.

102 racks each with 12 drive trays x 16 drives per tray

34 racks each with 8 drive trays x 60 drives per tray

Savings
Floor tile 66%   (*AWPSF=500)
Power consumption 31%
Power drops 50%

About Silicon Graphics, Inc.

Silicon Graphics, Inc. (SGI) (NASDAQ: SGIC) delivers a complete range of server and storage solutions along with industry-leading professional services and support that enable its customers to overcome the challenges of complex data-intensive workflows and accelerate breakthrough discoveries, innovation and information transformation. SGI solutions help customers solve their computing challenges whether it's enhancing the quality of life through drug re-search, designing and manufacturing safer and more efficient cars and airplanes, studying global climate, providing technologies for homeland security and defense, or helping enterprises manage large data. With offices worldwide, the company is headquartered in Sunnyvale, California, and can be found on the Web at www.sgi.com.

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