



“We need to increase the energy efficiency of our data center.”

“GREENING” THE DATA CENTER

45 percent of the 1,007 respondents to a Forrester survey have an overall plan for implementing green IT practices.

Source: “More Green Progress in Enterprise IT,” Forrester

A full 67 percent of the 1,022 IT professionals surveyed in Forrester’s Green IT Online Survey indicated the driver for pursuing greener IT operations was to reduce energy-related operating expenses.

Source: “Market Overview: A Slowing Economy Won’t Slow Down Corporate Green IT Initiatives,” Forrester

CHALLENGES

- **Server Consolidation** — Reducing the number of servers while continuing to meet service levels
- **Measurement** — Monitoring environmental factors that impede energy efficiency
- **Growth Footprint Management** — Controlling server sprawl to align with green initiatives

YOUR GOAL: A HIGH-PERFORMING, ENERGY-EFFICIENT DATA CENTER

A growing number of IT organizations are establishing energy efficient, “green” data centers to alleviate the financial and environmental impacts of skyrocketing power consumption and to proactively address the likelihood of more government energy regulation. Existing technologies and strategies could reduce typical server energy use by 25 percent, and even greater energy savings are possible with advanced technologies.

Successfully implementing a green data center requires a thorough understanding of the cost-benefit relationship, clear direction from management, and reassurance that performance and reliability will continue to meet business demands.

- How would you describe your strategy for a green data center?
- What steps have you taken to reduce power consumption?
- Have you tried to improve server utilization?
- How do you monitor environmental factors such as energy consumption and heat output?

RETHINKING THE PROBLEM

TeamQuest’s capacity planning, modeling, and performance management software aid in architecting, managing, and maintaining a green data center. Our predictive modeling and capacity planning capabilities help you reduce the number of servers in your data centers and their associated power consumption, heat output, and space requirements without negatively impacting application performance.

With measuring and monitoring tools, you can proactively track power consumption and heat output in your data center and make adjustments in real time to adhere to your efficiency standards. And, with capacity management solutions to help you plan and implement infrastructure changes, you will continue to meet growing business demands while avoiding server sprawl and its attendant costs.

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CONSIDERATIONS

What if you could use your historical data to determine where and how to stack applications into a smaller server footprint?

What if you could establish parameters for power consumption and heat output in your data center and receive alerts any time those levels were exceeded?

What if you had an “evergreen” data center that would accommodate growth in an energy efficient manner?

HOW TEAMQUEST HELPS YOU IMPROVE ENERGY EFFICIENCY IN YOUR DATA CENTER

Reduce the number of servers in your data center

Quickly and accurately predict the effects of consolidation before making any changes. TeamQuest’s predictive modeling and capacity planning solutions enable you to shrink your footprint and obtain a better return on your energy investment by eliminating the energy requirements of idle or underused servers — without negatively impacting performance.

Measure and monitor environmental factors

Use real-time and historical views of power and heat consumption to proactively monitor environmental factors against your pre-set performance levels. TeamQuest’s capacity management and performance monitoring tools allow you to quickly identify problem areas, model potential new configurations, assess performance improvements, and demonstrate compliance with your corporate energy initiatives.

Manage your growth footprint

Control server sprawl and maintain a green data center over the long term. TeamQuest’s capacity management and performance monitoring tools enable you to evaluate capacity against current and future business needs, model the impact of proposed changes before investing in new infrastructure, and maintain energy efficiency in your data center through continued consolidation and optimization.

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