Virtualization’s green benefits and cost savings
The Importance of Virtualization’s Green Benefits and Cost Savings

The green benefits of virtualization provide a cost-effective strategy to update IT infrastructure and keep pace with the speed of globalization in the 21st century. Virtualization technology has stepped forward in the wake of the Great Recession as an established way to maximize labor resources and IT capital expenditures while accounting for future IT infrastructure expansion. Derive Technologies has a battle-tested reputation, implementing scalable virtualization solutions for businesses that are looking for an edge in a competitive global market. The two primary selling points of virtualization technology are its benefits to the environment, and the appreciable cost savings that a resourceful IT consultancy such as Derive Technologies can provide to enterprise organizations and SMB companies.

Simply stated, businesses can no longer afford to discount virtualization as an IT expansion strategy. The amount to be saved is too significant to decline. There is a measurable relationship between going green and saving capital in the long run. Directly, reducing a company’s bottom-line carbon footprint allows IT managers to leverage energy resources more efficiently; indirectly, going green creates a multiplier effect that compounds energy savings over the long term.

Implementing virtualization allows businesses to keep pace with the competition by offering scalability and flexibility to meet the demands of the global market. Finance, for instance, is one industry that is reaping the benefits of streamlined virtualization, which consumes far less energy. Specifically, server virtualization is one way the financial sector is accomplishing this feat. Government entities have also discovered the importance of migrating critical server infrastructure to a virtual environment. At every step in the transition process, Derive Technologies offers companies smart, proven IT solutions.
Virtualization’s Green Benefits

Server sprawl creates a conundrum for IT administrators. The seemingly infinite expansion requirements of data centers vex a company’s capital expenditures. The rising cost of energy in the 21st century ensures that, over the next few decades, the price of energy will cut deeply into IT budgets. Going green is gradually becoming a viable way to offset the rising cost of powering thousands of servers and managing tens of thousands of networked desktops.

Server virtualization provides a way to substantially reduce the energy load that data centers impose on the environment - which is a substantial burden to say the least, as large data centers consume massive amounts of power daily. By consolidating servers into a virtual environment, companies can eliminate several tons of carbon dioxide emissions annually. Virtualization accomplishes this feat by significantly reducing the amount of power consumed by hardware infrastructure, the primary driver of the energy consumption of data centers, while fully utilizing hardware resources through physical resource consolidation and provisioning.

From the standpoint of data center sprawl, implementing virtualization solutions can delay the need to expand data centers within the next few years. A few dozen servers can now handle load previously managed by a thousand servers. This consolidation can save approximately 7,000 kilowatt hours of energy annually by conservative estimates. A resourceful tier-one IT consultancy such as Derive Technologies may be able to reduce energy consumption above and beyond this benchmark.
The cost savings of virtualization solutions, Derive Technologies has become an expert in virtual IT infrastructure. By leveraging the energy savings of green technology in tandem with maximizing human resource expenditures, Derive Technologies provides scalable strategies that enable companies to endure the current lackluster global economic environment.

Strassman has published articles that analyze specific scenarios involving the cost savings of virtualization. According to conservative estimates, the amount of savings can reach into the billions of dollars when compounded over the long term. From a near-term perspective, virtualization reduces data center energy expenditures by 10%-40%. The cost benefits from going green are simply too inviting to ignore.

Other figures compiled by industry experts suggest that transitioning to a virtual IT infrastructure can cut deployment costs by as much as 60%. Energy costs in general can potentially drop by as much as 80%, according to the leaders in virtualization technology VMware. From the standpoint of physical server space, server space can drop as much as 10:1 after implementing virtualization software.