

IBM IT Sustainability Optimization Assessment

Improve efficiency, and reduce IT costs, throughout the data center lifecycle while reducing IT energy consumption

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Highlights

Resource
underutilization

Actionable
Recommendations

Optimize and Modernize
IT environments

Adopting hybrid-cloud architectures has become a strategic imperative for enterprises seeking to leverage the benefits of both on-premises and cloud-based infrastructures. As a result, clients are undergoing data center refreshes and/or consolidations, and migrating on-prem data centers to co-location facilities or cloud for greater efficiencies and performance with their hybrid cloud workloads. There are many reasons to refresh or consolidate data center hardware and move toward broader data center optimization including cost savings, improved efficiency, and the increased focus on sustainability. Plus, an improved data center can set you up for a more successful digital transformation. Considering that on-prem data centers typically operate at 20-40% utilization¹ and that electricity accounts for as much as 70% of total data center operation costs², organizations have a big opportunity to increase utilization and reduce their energy costs.

IBM IT Sustainability Optimization Assessment is a remote service designed to provide actionable recommendations to realize performance efficiencies and reduce IT energy consumption, helping clients to drive cost take out actions and reduce IT energy costs within their virtualized on-prem infrastructure, all while maintaining workloads. Leveraging IBM Turbonomic AI-driven insights, IBM Technology Lifecycle Services (TLS) can help clients to make informed decisions and achieve their sustainability targets, throughout the data center lifecycle.



Actionable Recommendations

IBM will work with clients to deploy and configure IBM Turbonomic SaaS into their environment, Turbonomic will then evaluate workload demands and infrastructure utilization dynamics (CPU, memory, storage, etc.) in addition to showing the host's energy and carbon footprint levels. The software will then run selected 'what if' planning scenarios to understand optimization possibilities and impacts such as VM moves, resizing, provisioning, etc. or even HW replacement. After the assessment, IBM will prepare a customized action plan based on the client's IT infrastructure strategy. Clients will receive a report outlining recommended actions to properly consolidate and/or replace hosts, along with the estimated cost reduction from the proposed actions and projected improvement in energy consumption and carbon footprint.

Optimize and Modernize IT environments

For companies looking to optimize their hardware on-prem infrastructure or to modernize their technology environments, the IBM IT Sustainability Optimization Assessment helps clients identify the appropriate course of action to help them achieve their IT infrastructure goals.

In addition to the assessment, IBM TLS offers a variety of services that can help clients realize the benefits and savings of the assessment with the implementation of the services they require. IBM TLS can assist clients with technical refreshes or hardware optimization plans, with services ranging across the entire lifecycle of the client's infrastructure. IBM offers IBM Data Erasure Services, IBM Asset Recovery and Disposition, and TLS project services for infrastructure such as project services, deinstall/install, MVS hardware resale, data sanitization and logistics to help address the needs of client's infrastructure.

Conclusion

Whether your organization is looking to consolidate data centers for an upcoming cloud migration, or multicloud environment or be more efficient on-premises, IBM Technology Lifecycle Services can help accelerate the process. The IBM IT Sustainability Optimization Assessment is designed to assist in utilization and performance increase, while reducing IT energy consumption and cost.

Why IBM Technology Lifecycle Services?

IBM Technology Lifecycle Services can help organizations adopt a hybrid-cloud model or create a circular economy for their IT environment by acting as a one-stop-shop for client's IT support and services. IBM's IT Sustainability Optimization Assessment is built to help clients identify and execute a data center strategy that drives efficiency all while addressing their sustainable IT strategies and ESG initiatives.

For more information

To learn more about IBM Technology Lifecycle Services, please contact your IBM representative or IBM Business Partner, [contact us directly](#) or visit <https://www.ibm.com/services/technology-lifecycle-services>

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Armonk, NY 10504

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1 Anecdotally what's been seen among new Turbonomic customers and prospects

2 Barclays Equity Research, Green Data Centers: Beyond Net Zero, 7 September 2021

