Sustainable IT with IBM Turbonomic Application Resource Management

IBM® Turbonomic® Application Resource Management (ARM) ensures applications always consume exactly the resources they need to perform, materially reducing IT's carbon footprint.

Accelerate the journey to carbon neutrality today

Take action now. Turbonomic has been proven to deliver meaningful results within 6 months, versus longer term initiatives like renewables, hardware refreshes, new heating and cooling technologies, or even cloud migrations which can take anywhere from 2-5 years to pay off.

No need to compromise digital business success. Because Turbonomic takes an app-driven approach, business-critical apps always perform, even as you optimize for efficiency and environmental sustainability.

Proven Outcomes

Optimizing application resource consumption either in the datacenter, the public cloud, or both, improves an organization's long-term energy consumption profile. [1]

20%	33%	75%	70%
Improvement in availability of business-critical applications. [1]	Reduction in public cloud spend due to dynamic scaling and workload rightsizing. [2]	Improved infrastructure utilization and avoided annual refresh costs by 75%. [2]	With understanding of app demand, avoided required infrastructure growth spend by 70%. [2]

[1] Forrester Total Economic Impact of Cisco Intersight Workload Optimizer (Turbonomic OEM)
[2] Forrester Total Economic Impact of IBM Turbonomic Application Resource Management

Digital transformation has environmental consequences

We have seen...

o   Massive growth in application workloads

o   Continued challenges with how workloads efficiently consume resources

o   And it's all happening in data centers where electricity accounts for as much as 70% of total data center operating costs - that has an associated carbon emissions cost

500 M

By 2023, over 500 million digital apps and services will be developed and deployed using cloud-native approaches – the same number of apps developed in the last 40 years.

IDC

70%

Electricity accounts for as much as 70% of total data center operating costs.

Barclays Equity Research, Green Data Centers

80%

Eighty percent of business leaders with a sustainability strategy cite that their CIO plays a critical role in sustainability.

Gartner

IBM Turbonomic supports your sustainability goals throughout the cloud journey.

Continuous application performance at the lowest cost.

Data Center Optimization	Cloud Migration Planning	Continuous Cloud Optimization	Sustainable Elastic Cloud
More effective use of existing assets, more effective purchasing for infrastructure growth.	App-driven, optimized planning ensures responsible cloud consumption from the start.	Safely reduce cloud consumption. Continuously consume sustainably as the business grows.	Elastically scale modern apps based on response-time, achieving great digital experiences *and* elasticity.

Scope 1 & 2   **Scope 3**

Strategy	Pre-Production	Early Production	Advanced Production	Business Transformation
• Optimize on-prem. • Identify business use cases. • Determine best workloads for migration to cloud.	• Operating first few application workloads, or a non-prod environment in cloud • And/or initiating greenfield app.	• At least one business-critical application running in Production • Most workloads still yet to move to the public cloud.	• Multiple business-critical applications running in Production—most workloads now reside in the public cloud.	• Cloud-first strategy in place • Business-critical applications leveraging cloud native, PaaS, and other non-differentiating cloud services.

Hybrid Cloud   Multicloud   PaaS/Containers

Try Turbonomic in a live sandbox!

IBM