



IT Sustainability Assessment

Assessment service to measure and report environmental sustainability data in a hybrid multicloud IT landscape and recommend areas of optimization.

Introduction

Organizations are seeking help in their efforts of achieving environmental sustainability goals for their IT operations. They want to be good global citizens, impress investors, manage regulations, and improve their partner ecosystem while driving corporate business objectives.

Companies today run their IT applications and workload in a hybrid multicloud environment. That environment consists of in-house or captive data centers, collocated data center spaces, private and public cloud. For a company to measure and report its IT operational sustainability KPIs, it is important that environment data, such as energy usage, Greenhouse Gas (GHG) emission and water usage from disparate sources is collected, analyzed, and reported in a holistic manner.

This approach provides better visibility into an organization's sustainability posture and helps with better insights on how to optimize energy use across the IT landscape thereby reducing GHG footprint.

Kyndryl IT Sustainability Assessment is a tool-driven comprehensive assessment to measure energy and GHG emission data from distributed workloads in a hybrid multicloud IT landscape and set baseline report on sustainability KPIs; and recommend areas of resource optimization through continuous improvement program.

Highlights

Customer Benefits

- Helps benchmark current environmental sustainability posture with peers in industry and recommend strategies for improvement.
- Creates roadmap for future sustainable growth, upgrades, and expansion.
- Helps get clear picture of enterprise data center and cloud infrastructure energy and GHG footprint; and water usage that helps set up achievable reduction target.
- Helps provide visibility to effectively budget for the upgrade in advance.

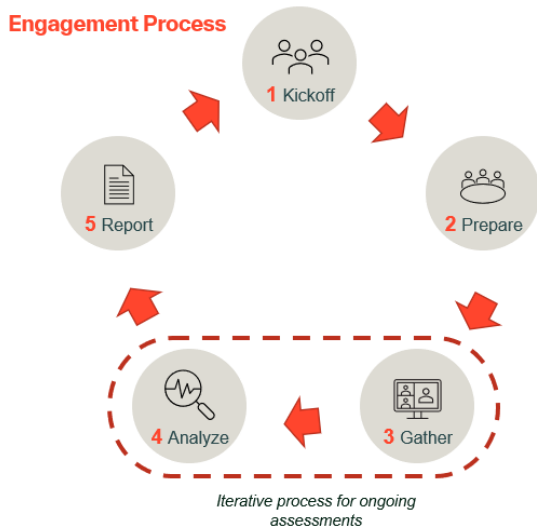
Offering Objective

- Advisory services to provide comprehensive 'As-Is' view of energy, GHG emission and water usage of customer's hybrid Multicloud IT operations.
- Assist customers in continuous sustainability improvement and green IT initiatives.

Assessment Approach

Kyndryl's IT Sustainability Assessment collects data via a facilitated workshop, templates and automatically through data collectors for Hyperscaler workloads to provide comprehensive "As-Is" view for IT Sustainability

- Engagement kickoff and identification of client participants.
- Select key areas of focus and prepare for workshop.
- Conduct data collection workshop and run data collectors.
- Analyze findings, conclusions and recommendations.
- Create report and present results. Discuss next steps.



How it Works

- Collect and measure environmental data (energy consumption, GHG emission and water usage) from distributed workload.
- Benchmark sustainability KPIs against industry standards.
- Help set net-zero or emission reduction targets using industry framework such as Science Based Targets initiatives (SBTi).
- Tracks emission reduction target against actual energy consumption and emission levels.
- Report 'As-is' posture of IT operational sustainability holistically for entire IT estate.

Follow-through service: Continuous Improvement Program

- Provide online access to IT Sustainability Advisor tool for continuous tracking of environmental sustainability goals.
- Analyze data using AI and Machine Learning models to identify areas of resource optimization.
- Recommend best practices for sustainable IT operations.
- Simulate impact of recommended changes on production environment.

Key Differentiators

- Holistic reporting on 'As-is' state of energy use and emission levels for enterprise/captive data centers, co-located IT hardware and workload running on public cloud: AWS, Azure, GCP.
- Reporting based on industry standard KPIs and baselines.
- Workload agnostic data collection framework.
- Uses emission factor library based on US-EPA published data.
- Consistent methodology across all major Hyperscaler is applied for cloud workload emissions reporting.

Customer Stories

Kyndryl Data Center, Belgium

Customer was looking for AI based insights to optimize data center cooling energy usage and improve PUE.

Kyndryl Assessment Service provided insights that can potentially reduce cooling power consumption by **25%**, resulting in annual energy savings of **253 MWh** and estimated annual CO₂e emission reduction by **63 Metric Tons**.

Leading MNC for IT Products and Services, US

Customer was looking for AI-based insights on data center energy usage and reduction in energy footprint.

Insights from Kyndryl Assessment Service on 'Machine Learning' based cooling setpoint control resulted in an estimated annual energy savings of **1.3M kWh** and estimated annual CO₂e emission reduction by **138 Metric Tons**

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