



Telco and IT Cloud Energy Optimization Solution

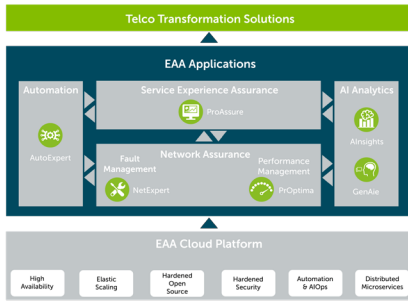
The collaborative solution of Mycom Service Assurance and Intel Power Management Telemetry stack brings visibility of performance and energy consumption of the Telco IT Cloud, IT Datacenter and the application workloads in a powerful solution to help CSPs reduce energy costs.

Telco and IT Cloud Energy Optimization Solution

As Communications Service Providers (CSP) actively optimize the costs of energy of their networks and Telco and IT clouds through energy-efficient technology, renewable energy sources, and tools for operational efficiency, Mycom's Telco and IT Cloud Energy Optimization Solution powered by the integration of Intel Platform Telemetry Insights provides CSPs with comprehensive visibility into energy consumption and insights into energy savings.

The drive for low-cost energy solutions has risen in the last 2 years as it became apparent that worldwide data centers account for almost 2% of total CO2 emissions, causing a financial burden on the CSPs and enterprises. Reasons for high energy usage in Telco networks are attributed to the growth of 5G, virtualization and cloud-based networks. 53% of CSPs report that green energy/hardware optimization for sustainability is a very important technology use case for them (Source: Gartner).

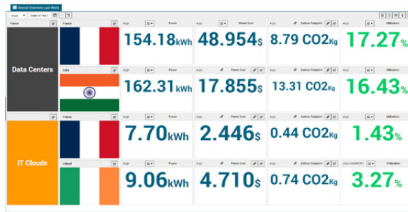
To address this challenge, it is imperative that CSPs leverage energy optimization strategies within their cloud infrastructure and correlate energy KPIs and network KPIs, to identify the customers' impact. Mycom's Telco and IT Cloud Energy Optimization Solution provides CSPs with comprehensive insights into energy consumption and energy savings on a 24*7 basis.



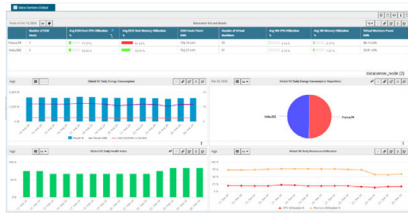
Part of Mycom's Telco Transformation Solutions

The Telco and IT Cloud Energy Solution, operated on Amazon Web Services (AWS) or on-prem can be deployed in all cloud, hybrid or on-prem environments.

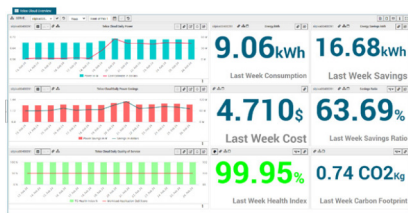
The Telco and IT Cloud Energy Optimization Solution reports end to end near-real-time measurements, for Telco and IT cloud power consumption and identifies the servers that are consuming the most energy. By leveraging Intel power management technology for the Service Assurance system reports, potential energy savings can be achieved by CSPs.



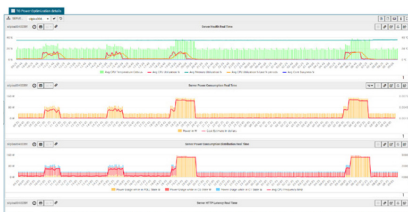
Overview of Data Centers and Telco IT cloud



IT Data Center utilization overview



Power optimization for targeted Telco IT cloud and apps



Server/Core idle detection and optimization

How it works

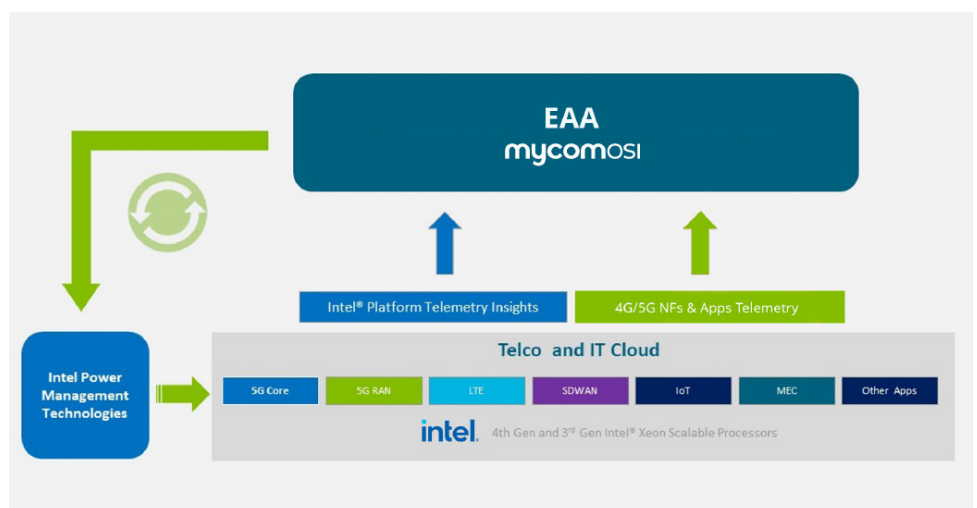
Observability of energy consumption and performance: By linking end-to-end energy consumption and performance at network/services (4G/5G/IT apps), the Solution can drill down to specific network domains and layers between a hosted network function and its hosting infrastructure.

Identifying underutilized equipment: Large Telco/IT clouds contain tens of thousands of servers and IT equipment that are often underutilized and waste energy. The Solution identifies those servers and devises the right optimization approaches and automation routines to reduce their power consumption for massive savings.


Creating energy usage profiles: These energy profiles can cover Telco/IT cloud network functions and applications identifying their carbon footprint and linking them to Quality of Service offered.

Generating Insights: Identifies patterns and business logic for optimizing energy consumption with Intel Platform Telemetry Insights to convert the infrastructure telemetry information into key metrics.


Automation: Creates a flexible and open framework to model and automate specific scenarios for power savings.




Telco and IT cloud coverage data flow



An integrated solution to enable CSPs to optimize energy utilization in the Telco/IT cloud, reduce costs, and ensure service quality.



CSPs can continuously monitor and track energy usage across various technologies, vendors, and network domains, significantly controlling and optimizing their OpEx.



Power saving estimation based on load, enabling CSPs to optimize energy consumption based on actual workload conditions.

Key Features

Real-time visibility

End-to-end network and services energy consumption reporting in real-time, allowing CSPs to monitor and track energy usage across various technologies, vendors, and network domains.

Flexible design and automation

Build rules and business logic for automatic activation/deactivation of power-saving features on specific servers, CPUs, or across the Telco cloud, based on predefined criteria.

Correlation of multi-source metrics

Correlates Telco network/services (4G/5G/apps etc), and the power consumption of IT cloud elements (Servers, routers, CPUs etc) to specific network domains and layers in between hosted Network Function and the hosting infrastructure.

Calculation of potential energy savings, using Intel Infrastructure Power Manager technology

Optimize the energy consumption of the Telco cloud workloads/applications and verify that no impact is made on the cloud's performance, post optimization.

Benefits

A compelling value proposition for the commercial teams to make informed decisions about optimizing energy usage, and reduces costs of the Telco/IT cloud.

Helps the CSP's operations teams with real-time monitoring and instant drill-down capabilities, providing visibility into power consumption in slices: network, technology, network function, and server.

Correlation with customer experience and visualization of the customer experience (measured through network or service QoS/SLA) with power optimization enforcement, ensuring that power-saving measures do not compromise customer experience.

Baselining and trending of power consumption for network functions, network domains, and technologies, allowing CSPs to identify deviations and set up real-time alerts for abnormal power consumption.

Carbon footprint benchmarking of network functions across various vendors and technologies, providing insights into the environmental impact of energy consumption in the Telco/IT cloud.

A compelling value proposition to help the CSP take informed decisions to optimize energy usage and reduce costs in the Telco and IT clouds.

Supports the IT department with real-time monitoring and instant drill-down capabilities, providing power consumption at network, technology, network function, and server levels.

Connect with us

For a personal demo and discussion about how the Telco and IT Cloud Energy Optimization Solutions can benefit your business.



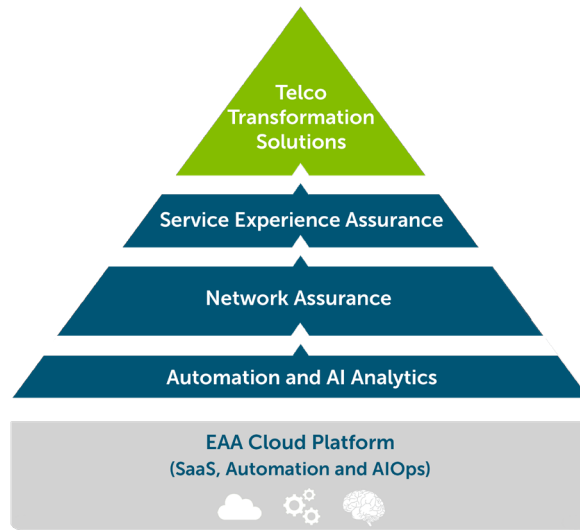
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Telco and IT Cloud Energy Optimization Solution – Powered by the Assurance Cloud™

Mycom’s Telco and IT Cloud Energy Optimization Solution is powered by the Assurance Cloud™. Proven to reduce TCO, accelerate TTM and support increased automation at the world’s largest, most complex networks, the Assurance Cloud™ is the world’s first fully cloud-native network and service assurance software-as-a-service (SaaS) offering. Mycom Telco and IT Cloud Energy Optimization Solution offers a powerful solution for visualization and energy cost savings for Telco and IT Clouds.



About Mycom

Mycom is a leader in Network Assurance and Service Experience Assurance solutions powered by predictive and generative AI-based Analytics and Automation capabilities enabling Communications Service Providers (CSPs), Managed Service Providers (MSPs) and enterprises to launch and manage mobile and enterprise services with high performance, at scale. Its telco transformation solutions are based on 25+ years of experience and expertise gained at the world’s largest, most diverse and most complex networks.

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A multi-award-winning Assurance vendor

With over 25 years’ experience, Mycom is recognised as the leading service assurance provider.

