

Sustainability Assessment

Achieve Your Sustainability Goals & Enhance Your IOT and Plant Cooling Systems Performance

When you are on a path to CO₂ neutrality, Agitare Technologies Inc can help you accelerate your journey in achieving your business sustainability objectives. We help bring together sustainable IT and OT best practices to reduce your direct and indirect CO₂ emissions and help you achieve your net zero goals.

Sustainability Assessment Consulting Engagement will help:

Uncover new opportunities to reduce energy usage and drive down energy costs and develop a climate risk management strategy.



Why customers use Sustainability Assessment

Sustainability is one of the most important things when it comes to businesses operation. Below are a few ways we can help you achieve that:

- Increased operational efficiencies by reducing cost and waste
- Protect and strengthen your brand and reputation and build public trust
- Meet government regulations

Equipment Efficiencies

- On-Site Inventory of plant cooling systems
- Energy assessment and costs
- Maintenance recommendations
- Cooling systems upgrade recommendations
- Reduce cooling systems energy costs and reduce CO₂ emissions

IOT Operational Efficiencies

- IT IoT Infrastructure Assessment
- Monitoring and alerting
- Device Conductivity
- Security
- Lower Azure Services cost and reduce CO₂ emissions

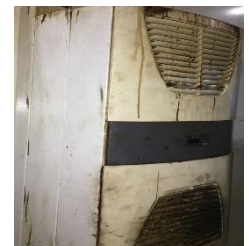
Plant Operational Efficiencies

- IoT and endpoint management
- Predictive Analysis
- Advanced Analytics
- Systems Integration
- Data Integration
- Optimize cooling system maintenance and reduce CO₂ emissions

Example of Business Impact on Sustainability

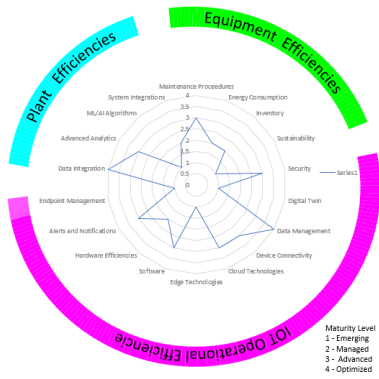
- Equipment Efficiencies: 60% to 80% reduction in energy usage per year
- IOT Operational Efficiencies: 30% to 50% reduction in cloud expenses using modern cloud infrastructure and services design
- Plant Operations Efficiencies: 20% to 30% reduction in maintenance costs using Preemptive IoT/ML/Maintenance 4.0 practices

Poorly Maintained Cooling Unit



What we Deliver

Sustainability Maturity Model



Equipment Assessment

Evaluation	Service-Check	Rittal recommendation
14	→ Devices do not work or are heavily damaged → Repair these uneconomical	Replacement or repair required
87	→ Working but 8+ years old → Newer units more efficient and reliable	Replacement recommended
65	→ Efficiency increase possible via Blue e+ replacement → Units running ok, < 6 years → Maintenance required	Replacement advantages
38	→ Units running ok, < 6 years → No Blue e+ options or T100 → Maintenance required	Perform maintenance
0	→ Devices fully efficient → Devices fully functional → No service measures necessary	No action necessary
1	→ Unable to evaluate → Device powered off → Unable to reach	Further investigation necessary

Energy Saving ROI

Total power usage today (kWh)	3,558,086
Total power usage after (L35/L35)	1,348,365
Total power usage after (SEER)	663,113
Total cost today	\$ 284,646.90
Total cost after (L35/L35 based calculation)	\$ 107,869.24
Total cost after (SEER)	\$ 53,049.03

Why Azure?

Microsoft Azure's IoT platform is designed to deliver capabilities that support the core processes and requirements of various industries. It enables IoT solutions that seamlessly connect people, assets, workflow, and business processes, empowering organizations to be more resilient and agile. With more than 60 regions and 170 global network points of presence, Azure has more coverage around the world than any other cloud provider—offering the scale and data residency options you need. The recent addition of the Microsoft Sustainability Cloud provides tools and services to help you develop and manage your company's sustainability plan.

Agitare and Rittal are teaming up to offer you a service unlike any other!

Why Agitare Technologies?

We are a professional services and product company that specializes in helping customers get started with or extend their use of Microsoft Azure IoT/ML/AI. We do this by providing the expertise, capabilities, and know-how to ensure our customers are using the benefits and full capabilities of Azure. Our approach is to assess the maturity for each customer in areas of IOT, Plant Operational Efficiencies and Hardware Efficiencies to help optimize IT and plant operations. We help you in the areas of:

True End-to-End Security – Using security, visibility, and controls enabled by the Azure IoT platform to help you prevent weak spots in your devices and services infrastructure. By design Azure has the tools to help you monitor the health of all your IoT devices in near real time and built-in security processes help block compromised devices with Azure IoT Hub.

Scale and Performance – Using best practices in infrastructure design and modernized services which provides a low latency and high bandwidth Azure global network to ensure you maintain ownership of your data in the region of your choice. You are also in control of any additional geographies where you decide to deploy the solutions or replicate your data.

Intelligence at the Edge - Help you leverage the power of Azure and Azure IoT Edge to build and train AI models in the cloud and run them on-premises to incorporate anomaly detection and predictive models on the edge and use event, IoT edge triggers and alerts to processes to optimize local and cloud based usage.

Sustainable Future - Using Microsoft Azure is up to 98 percent more carbon efficient than using a traditional enterprise datacenter. We have the expertise in IT and HW solutions to help you modernize your IOT SYSTEMS and both move into a hybrid design and/or optimize your cloud infrastructure to ensure you are achieving your cost and omission reduction objectives to help you advance a low carbon future while achieving your own sustainability goals.

Why Rittal?

Rittal is known as a company that delivers the world's most efficient climate control solutions & smart service concepts to help reduce the carbon footprint of your machines and systems. Sustainability is at the forefront at every level within Rittal. The unique advanced hybrid design approach uses less usage of refrigerant which provides an average energy savings of up to 80% over conventional systems. Smart interfaces promote greater accuracy & precision that also leads to greater reliability, reduce maintenance issues and longer lifecycle of the products.

The Rittal Manufacturer's Service offers comprehensive service expertise, covering every aspect from cooling systems design, installation and commissioning, to maintenance and repairs.