

# Net Zero Intelligent Operations



Keeping the promise of a brighter  
future with IoT powered intelligence



## Overview

One of the key challenges in tackling climate change is that there are interdependencies in the Earth system, with co-benefits and trade-offs in pursuing different sustainable development goals. Data and digital technologies now offer tools to support a better-connected system, and to yield overall solutions that are better than the sum of its parts.

At HCLTech, we are committed to enable our clients to achieve their sustainable development and net-zero emission goals – critical to ensure the future of this planet.

## About Our Solution

Net Zero Intelligent Operations (NIO) by IoT WoRKS™ is our foremost sustainability-focused offering that aims to help our customers monitor, normalize, compare and reduce energy consumption and GHG emissions in real-time.

It also enables calculating, reporting in Scope 1, 2, and 3 required which can be produced for validation in front of compliance organizations such as GHG, GRI, SBTi, TCFD, and other geography or industry-specific agencies. Its unique inter-comparability and normalization approach across multiple equipment, processes, and facilities helps in identifying emission optimization potential.

NIO gives unparalleled insights into an organization's energy consumption and carbon emission metrics. These metrics can be standard or customer-specific. This enables the solution to look at the total energy consumption across the organization and highlight facilities and assets basis energy efficacy that leads to reduced carbon emissions that contribute to net-zero goals. With NIO, you define your targets and monitor any deviations that can prevent you from achieving those targets.

# Key Features



Organization to  
equipment level  
visibility



Inter-comparability  
between sites or  
equipment



Sustainability  
Scope 1, 2, and 3  
reporting



Compliant with  
standards such as  
GHG, TCFD, GRI, etc



Saving potential  
identification  
and target  
management



Persona-based  
views



Highly scalable



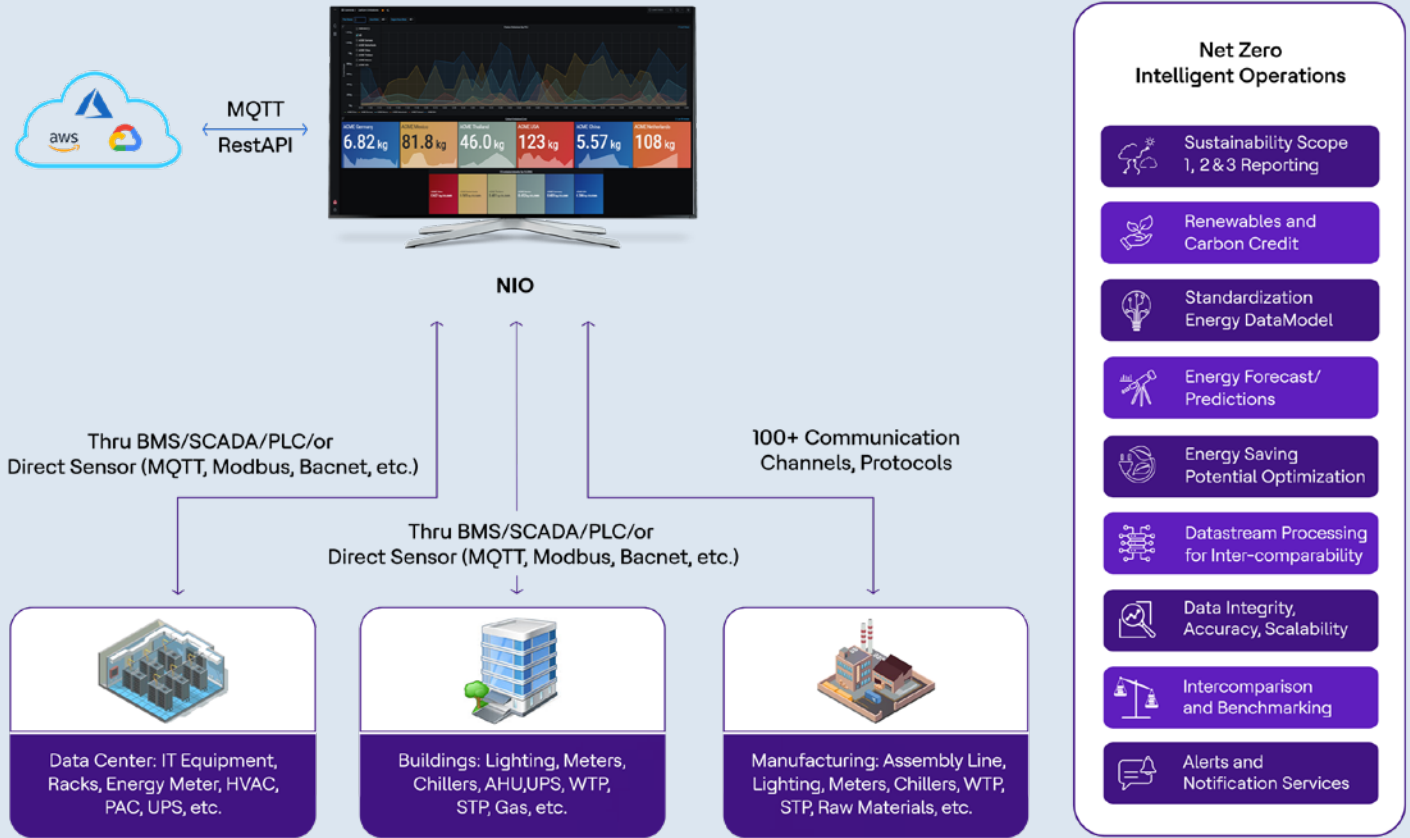
Flexible  
configuration



Vendor agnostic  
• Onboard on any cloud  
• Integrate any asset



# Solution Architecture



## Benefits



Shift from Local to Global  
 – Rapid shift in energy optimization measures – annualized energy savings of 7-9%



Reduced Carbon Footprint  
 – Reduce CO2 output between 8-10% per year



Optimize Operational Costs – Achieve nearly 6-8% annualized cost savings



Leverage Best-in-class practices – Utilize real-time data for enterprise best practices



Identify significant energy users (SEUs) – Ensure regulatory compliance: key standards like ISO 50.001

# Case Study



## Business Challenge

The client was looking to monitor its GHG emissions and energy consumption across its global production network. Sharing of best practice examples within this network was a major driver for improvement.



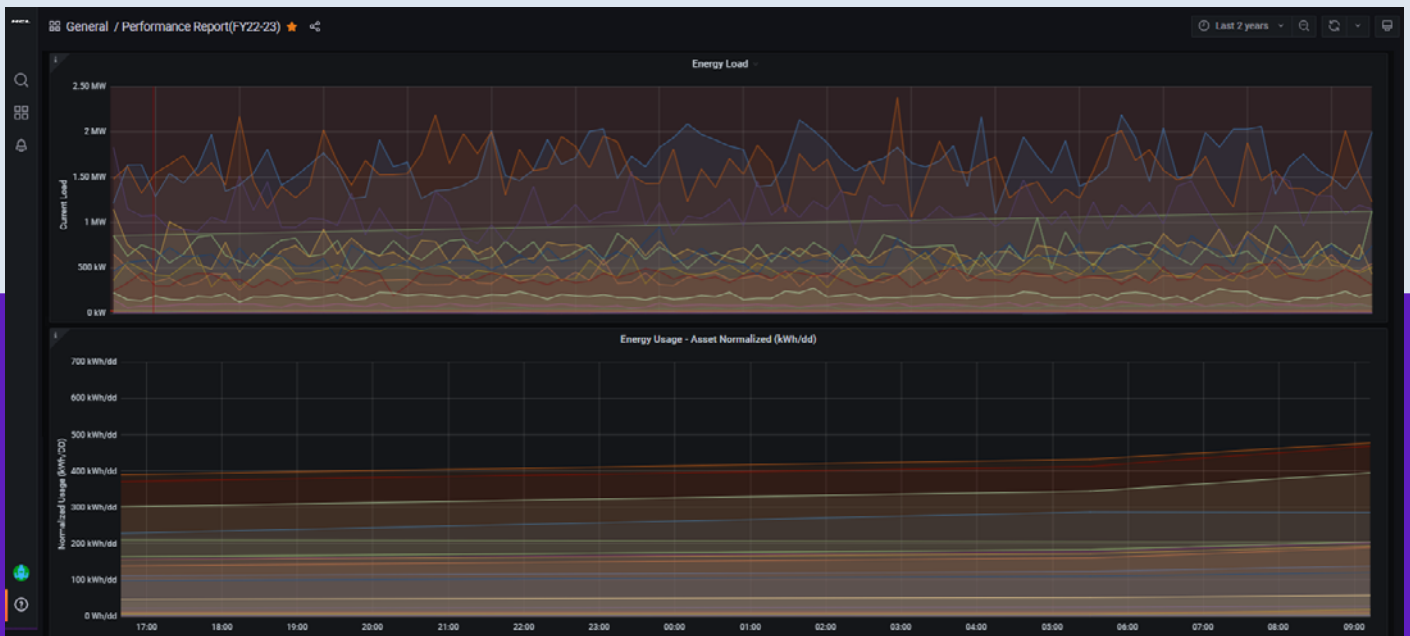
## Solution Delivered

- Build a real-time solution interfacing to PLC/Scada and building automation systems
- Capture and normalization of energy consumption data and energy source data in order to find drivers for energy consumption and best practices for operations across the network



## Business Outcomes Delivered

Based on the solution, the client committed for **7-10%** of energy consumption across its production network.





## About Us

### IoT WoRKs™ at HCLTech

IoT WoRKs™ is a dedicated IoT business unit of HCLTech. Our award-winning, best-in-class, customer and industry-specific, deployment-ready solutions co-created with customers enable them to maximize effectiveness and returns on their asset investments. Rated as a global leader in IoT consulting & services by top analysts, our solutions enable IoT-led business transformation through creation of more efficient business processes, new revenue streams and business models that deliver measurable business outcomes. At HCLTech, we believe that the transformative impact of IoT is realized by IoTizing the 'things', connecting the assets to a data platform and then using the data to derive business insights and taking business decisions which ultimately lead to change in enterprise's processes and people practices.



[hcltech.com/Internet-of-Things-IoT](https://hcltech.com/Internet-of-Things-IoT)

# HCLTech | Supercharging Progress™

HCLTech is a global technology company, home to 211,000+ people across 52 countries, delivering industry-leading capabilities centered around Digital, Engineering and Cloud powered by a broad portfolio of technology services and software. The company generated consolidated revenues of \$11.79 billion over the 12 months ended June 30, 2022. To learn how we can supercharge progress for you, visit [hcltech.com](https://hcltech.com).

[hcltech.com](https://hcltech.com)

