



ENERGY INTELLIGENCE SYSTEMS



What is Zerowatt Energy Intelligence System



Zerowatt is an Energy monitoring system with it's own intelligence.



Like an Expert Energy Auditor, Zerowatt is capable of analyzing the electricity consumption patterns and identify inefficiencies.

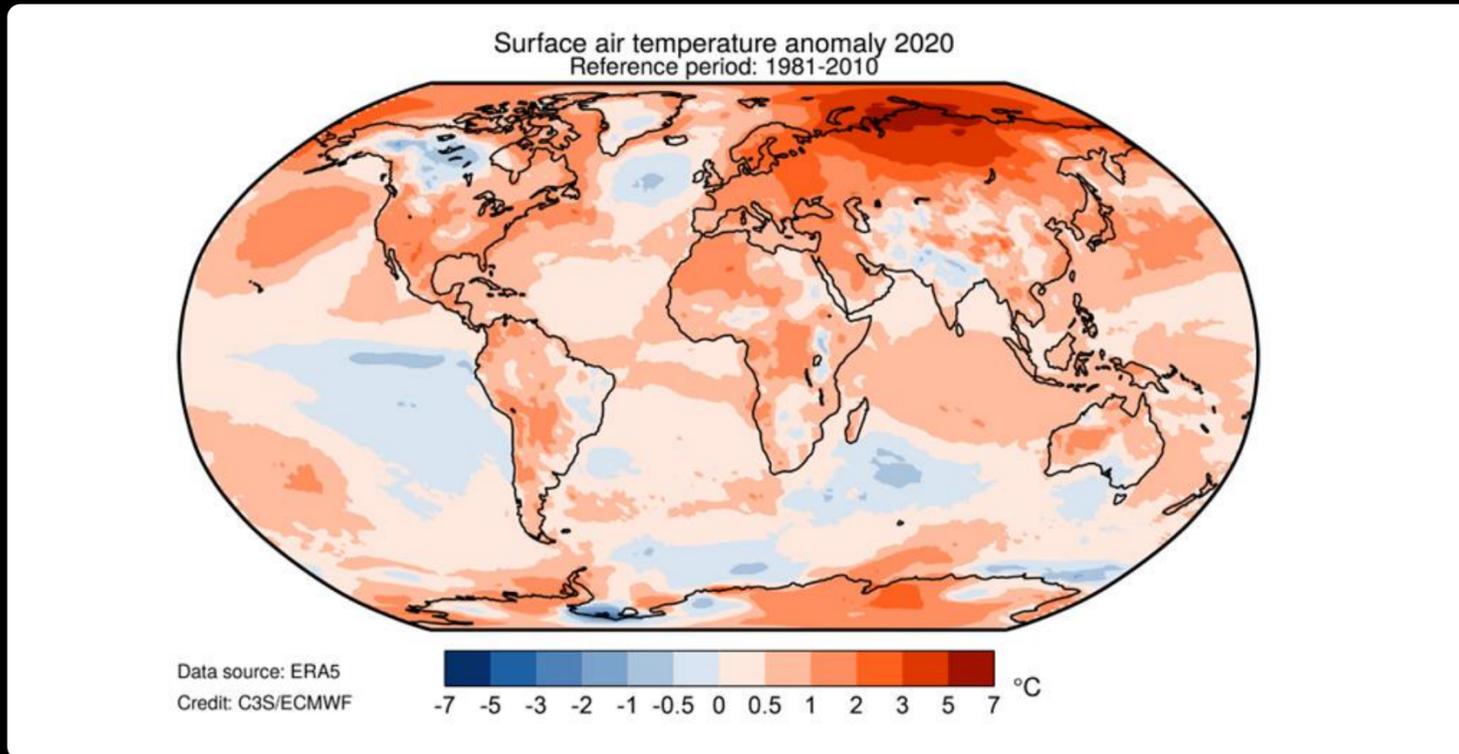


With an advanced analytics dashboard and multiple User Alerts, Zerowatt empowers every personnel in the facility to reduce energy wastage.



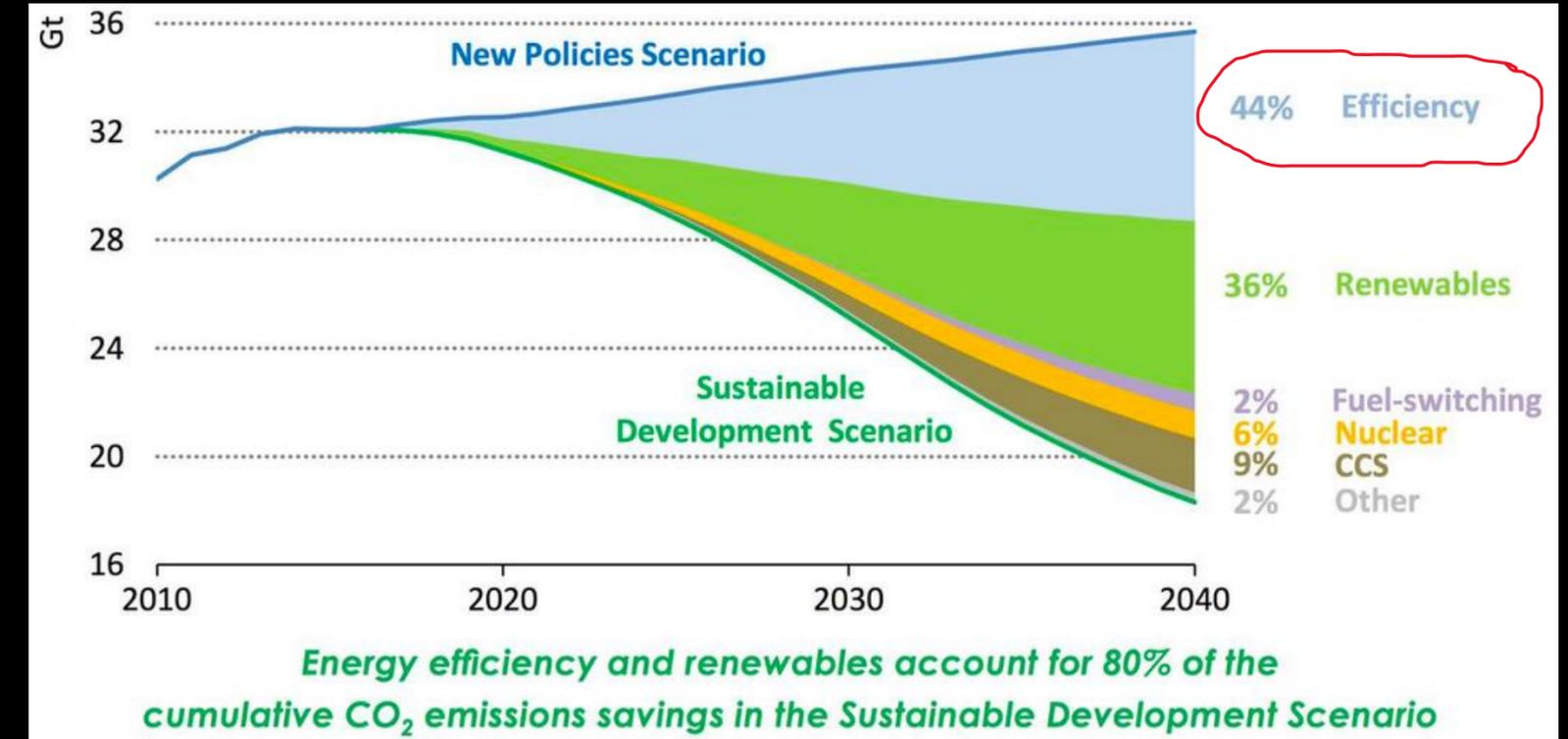
Each unit of Energy saved is our gift to humanity and to the future of earth.

CLIMATE CRISIS



“ We are the first generation to feel the effect of climate change and the last generation who can do something about it ” - Barack Obama

ENERGY EFFICIENCY



“ Efficiency is the single most important measure to reduce Carbon emissions ” - International Energy Agency

How Zerowatt empowers our clients



Optimizes Electricity Cost

High electricity costs hinder profitability of businesses. 10% to 30% of electricity is wasted due to inefficiencies. Zerowatt helps to identify and avoid energy wastage.



Prevent Unplanned Outages

Equipment breakdowns result in huge productivity loss to businesses. Zerowatt can monitor equipment health and help to prevent breakdowns.



Empower Sustainability

Reducing carbon footprint is crucial for sustainability of businesses. Zerowatt provides a platform for monitoring and reporting carbon emissions.

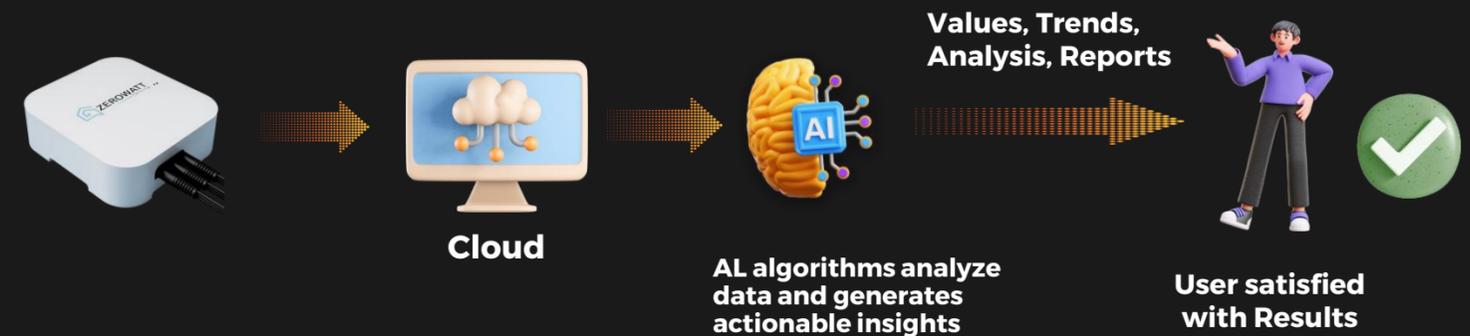
ZEROWATT Vs OTHER ENERGY MONITORING SYSTEMS

Other Energy Monitoring Systems:

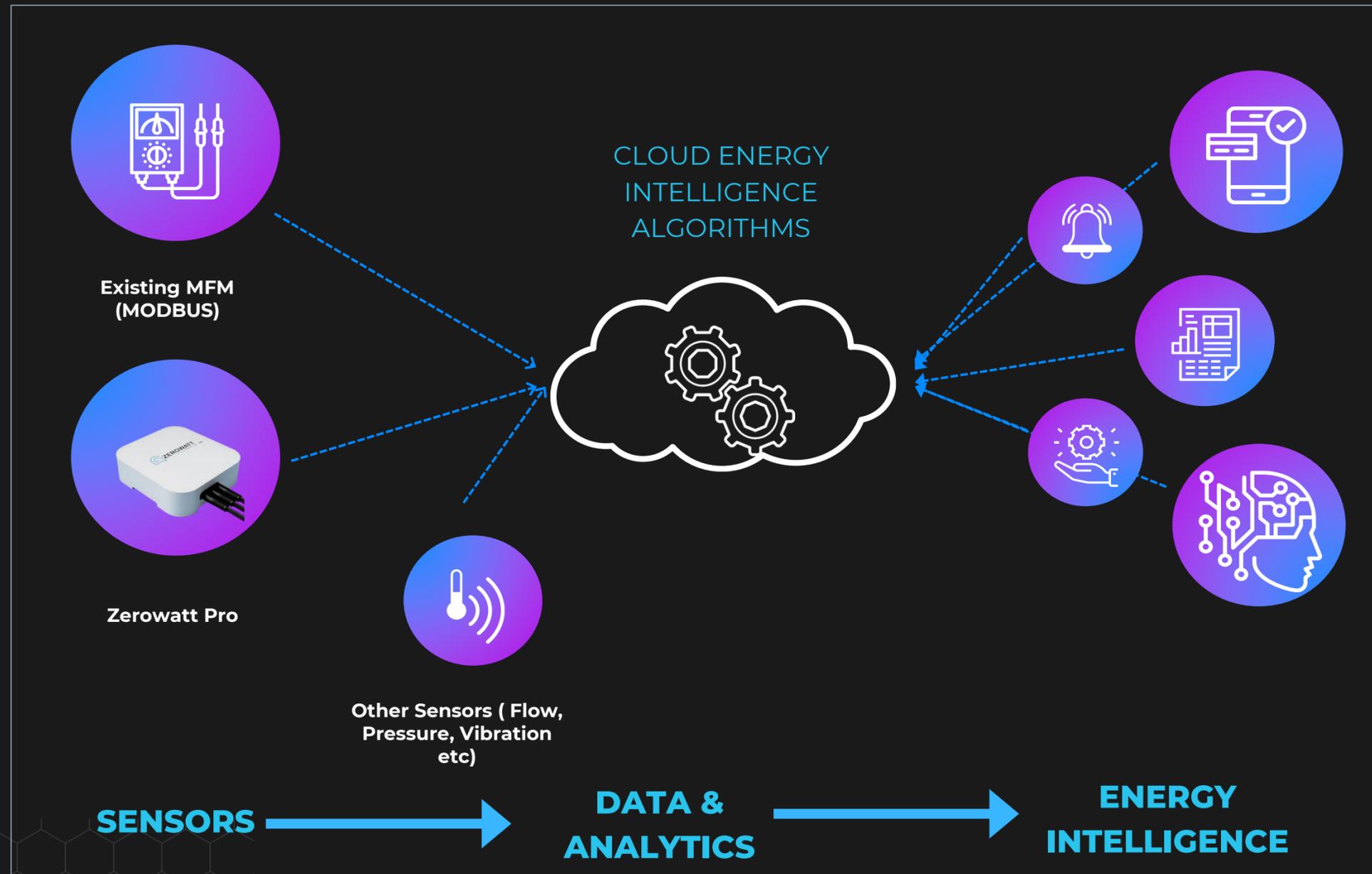
Conventional Energy Monitoring Systems provide only trends and values. But without intelligent and actionable insights, this data doesn't have any meaning.



Zerowatt provides values with higher resolution, Trends & Graphs with better meaning and clarity, and in addition, analyses the data and generates actionable insights.



ZEROWATT: HARNESSING DATA FOR SMARTER ENERGY USE



- **Advanced Data Capture:** Gathers electrical data in real-time using Zerowatt Pro meters or existing facility meters.
- **Cloud-Based Data Analytics:** Securely stores data in the cloud, enabling both live and historical analysis of equipment performance.
- **Remote Monitoring Capability:** Access energy usage data anytime, anywhere through mobile and web applications.
- **Unique Actionable Insights:** Processes data with sophisticated algorithms, uniquely identifying areas of energy wastage, pinpointing equipment malfunctions, and recommending specific efficiency improvements.

Data Collection using Zerowatt Modbus Gateway

Use case:

- Where Multifunction meters are available



Existing Electricity meter

- Electricity readings from existing MFMs are collected using plug & play RS485 MODBUS cables



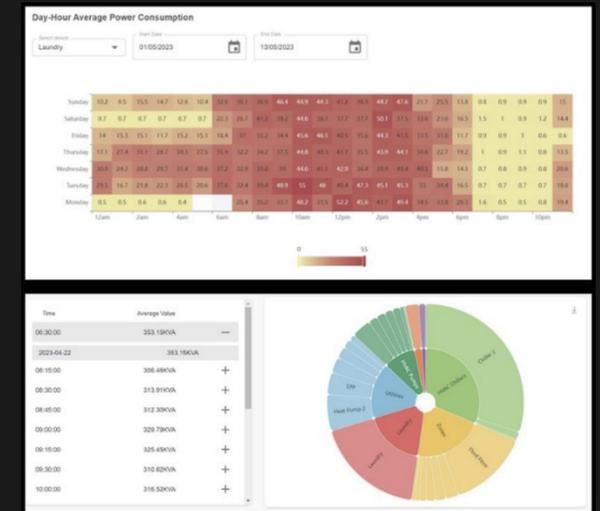
Zerowatt Gateway

- MODBUS cables from multiple MFMs are connected to a Zerowatt Gateway
- Zerowatt Gateway is equipped with an IoT Sim card to send the data to Zerowatt cloud server



Cloud Server

- Cloud server is loaded with Zerowatt AI algorithms
- It analyses data and generates actionable insights



Analytics Platform

- These insights are delivered to the users through Web dashboard and Mobile Apps

Data Collection using Zerowatt Pro Monitor

Use cases:

- Where Multifunction meters are NOT available
- To monitor individual machines



Zerowatt Pro Monitor

- Zerowatt Pro Monitor captures electricity parameters with the help of clamp-on CTs
- It sends data to a router using own Wi-Fi



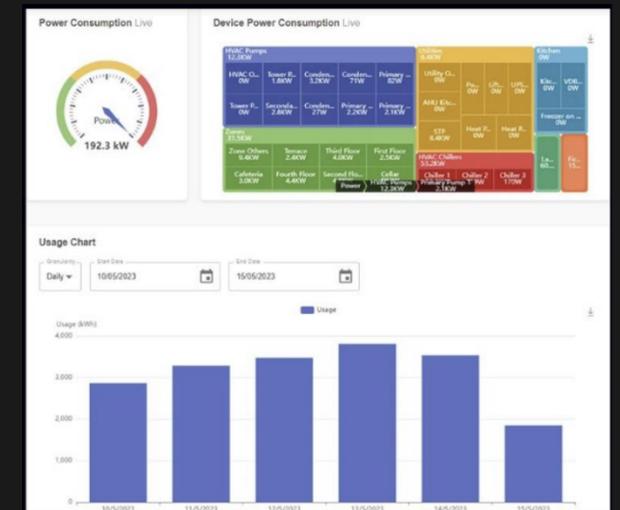
Router

- The Router is equipped with an IoT Sim card to data to Zerowatt Cloud server



Cloud Server

- Cloud server is loaded with Zerowatt AI algorithms
- It analyses data and generates actionable insights



Analytics Platform

- These insights are delivered to the users through Web dashboard and Mobile Apps

TAILORED INSIGHTS & ALERTS

Actionable insights for facility Managers

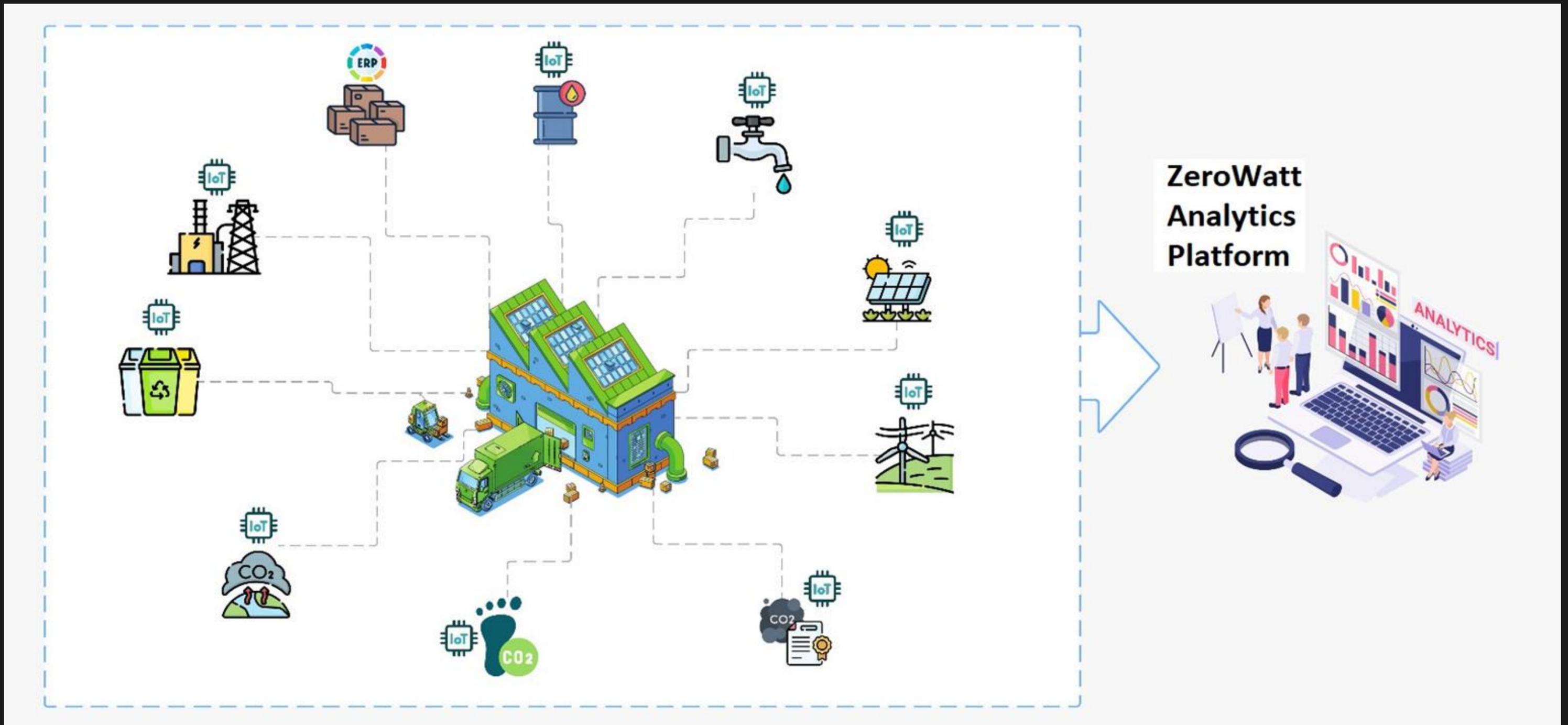
- Realtime Equipment Running Status
- High voltage/current/power Alerts
- Extra Equipment Running Alerts
- Running Hours Comparison
- Idling Equipment Alerts
- Unscheduled Equipment Operation Alerts
- Equipment health tracking
- Breakdown Alerts
- Shift-wise Electricity Consumption Tracking
- Pre- and Post-Maintenance Performance

Comparison

Strategic perspective for Higher Management

- Corporate Energy Intelligence Dashboard
- Real-Time Cost Tracking of Operations
- Automated MIS Reports
- Remote Process Monitoring and Management
- Electricity Bill Forecasting
- Month-over-Month Performance Comparison
- Industry Benchmarking
- Energy Efficiency Upgrade Recommendations
- Corporate Sustainability Reporting

Zerowatt is not limited to Energy Monitoring. It is a completely modular system with capability to capture data from multiple types of sensors and capability to generate multiple types of visualizations.



OUR CLIENTELE

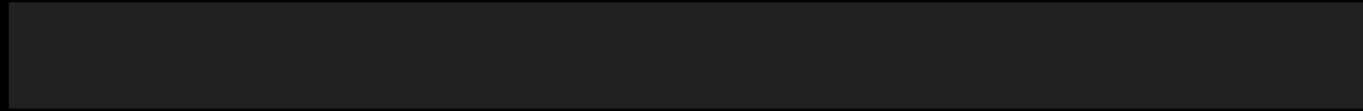


IndianOil





MST



‘ Sustainability isn't an expense, it's an investment that pays dividends - for your business, for our shared future ’

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