

Mendygo

Building Management System 4.0

Efficiency
Automized

Intelligence
Centralized

Sustainability
Realized



mendygo

www.mendygo.com

Beyond Traditional Automation

Buildings have evolved. Your systems should too. Modern facilities are intricate ecosystems. You manage energy, water, HVAC, and security simultaneously. Yet, traditional Building Management Systems (BMS) are often siloed, technologically outdated, and restricted to on-premise data—leaving you with blind spots.

Break the Silos. Mendygo BMS 4.0 bridges the gap. We replace fragmented spreadsheets with a unified cloud platform. By integrating peripheral systems like Water, Generators, and Busbars into a single dashboard, we transform raw data into a roadmap for operational excellence.

Efficiency Maximized

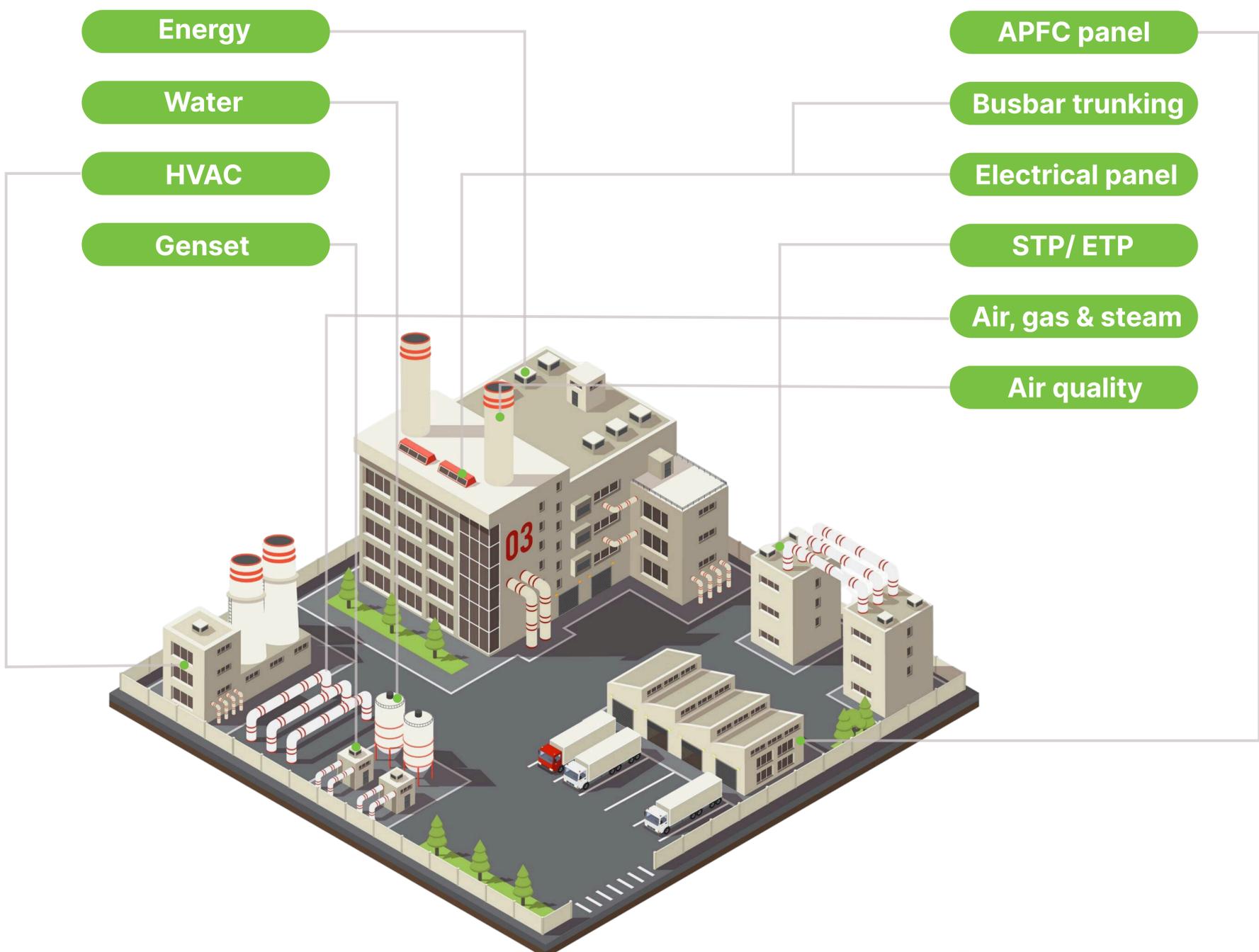
Identify consumption spikes instantly. Benchmark performance across equipment and locations to eliminate wastage before it impacts the bottom line

Compliance Automated

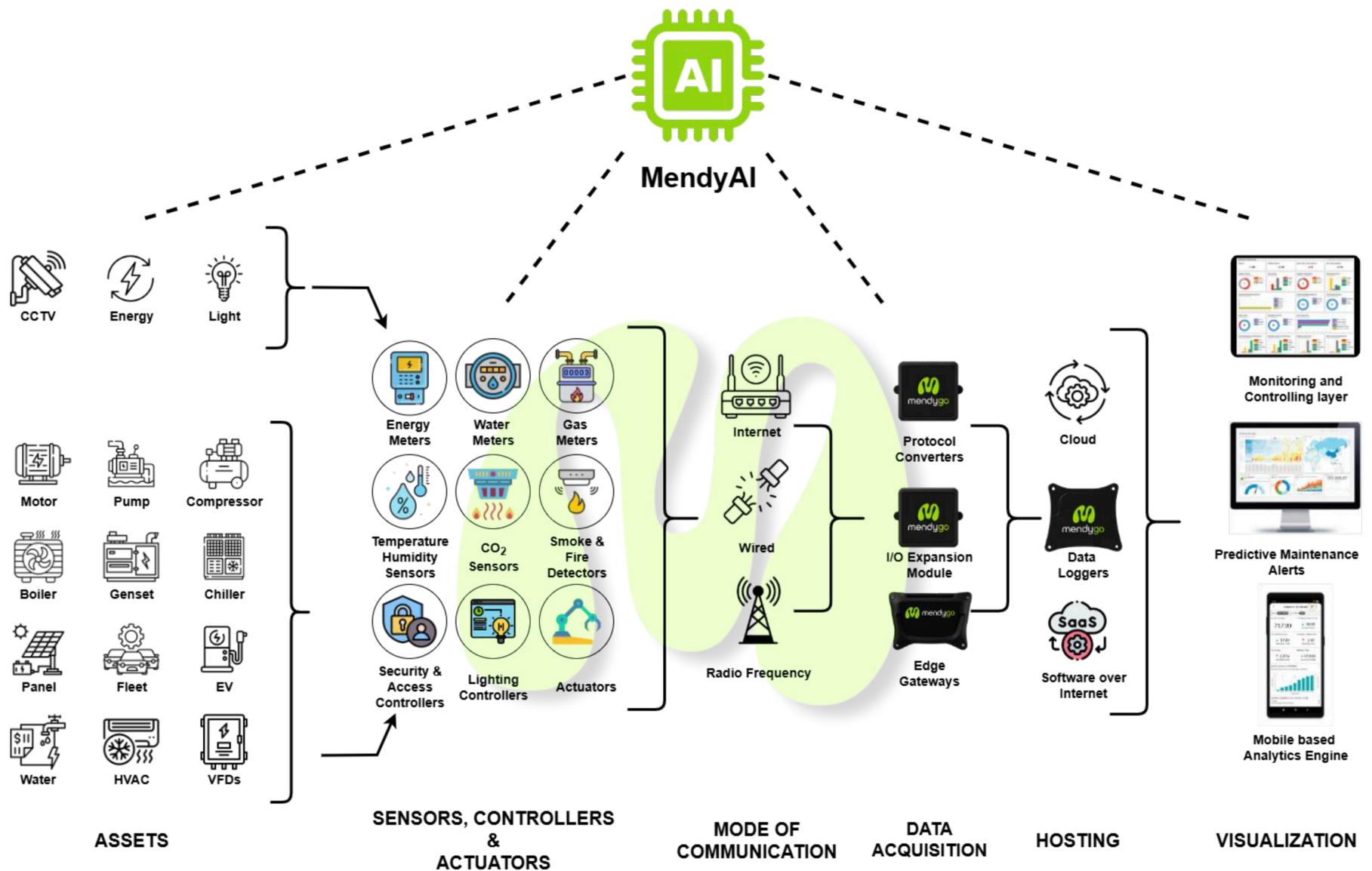
Say goodbye to manual logs. Auto-generate audit-ready reports for ESG, BRSR, and ISO standards, ensuring you meet regulatory goals effortlessly

Reliability Secured

Move from "Fix it when it breaks" to "Fix it before it fails." AI-driven predictive maintenance prevents expensive breakdowns and extends asset life.



Architecture



Application

- **Electrical & Power Infrastructure**

Monitor Busbar joints, APFC panels, and Active Energy. Track SEC, THD, and thermal hotspots to prevent electrical failure.

- **HVAC Management**

Real-time control of Chillers, AHUs, and VFDs. Uses adaptive setpoints and predictive analytics to extend equipment lifecycle.

- **Water & STP/ETP**

Track distribution and quality parameters (pH, TDS, COD, BOD). Detects leakages and monitors filtration for compliance.

- **Genset & Compressed Air**

Optimize Genset fuel/loading and Compressed Air pressure. Identifies pipeline leaks and inefficiencies instantly.

Solution layers

Sensing & processing

Smart edge appliance



Smart Edge Gateway

Gateways



Series 1-100



Series 1-200



Series 2-100



Series 2-200

Protocol converter



Protocol Converter

Meters & controllers



Water Meter



Gas Meter



Power Monitoring Unit



Controller

Sensors



Temperature Sensor



Vibration Sensor



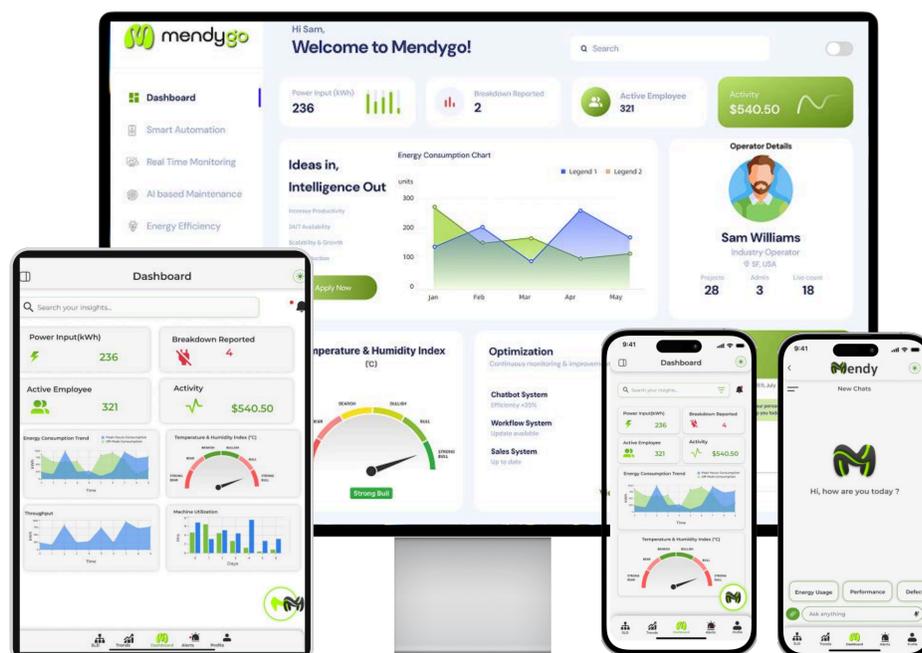
Fuel Sensor



Fire Detector

Visualization & analysis

Dashboards, reports & alerts.



Key features

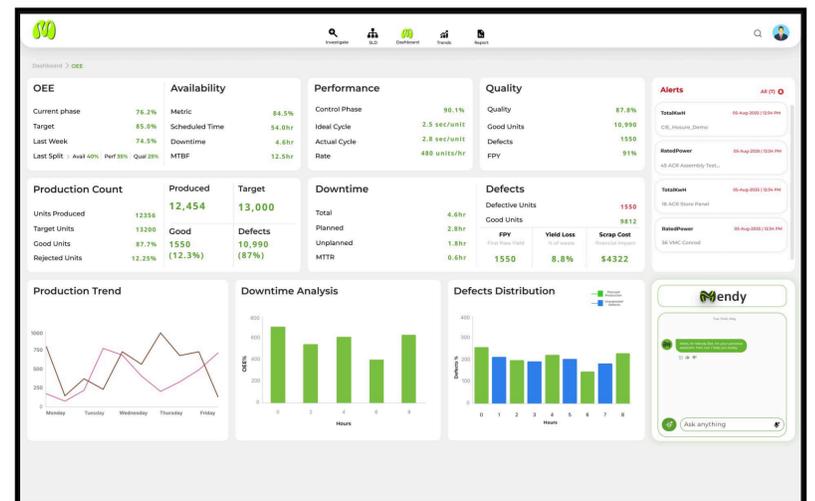
1 Create a real time digital twin of your facility

Leverage a live, data-driven digital twin to replicate your factory or building virtually. Gain real-time insights, simulate scenarios, and make smarter decisions with a comprehensive view of your facility's operations.



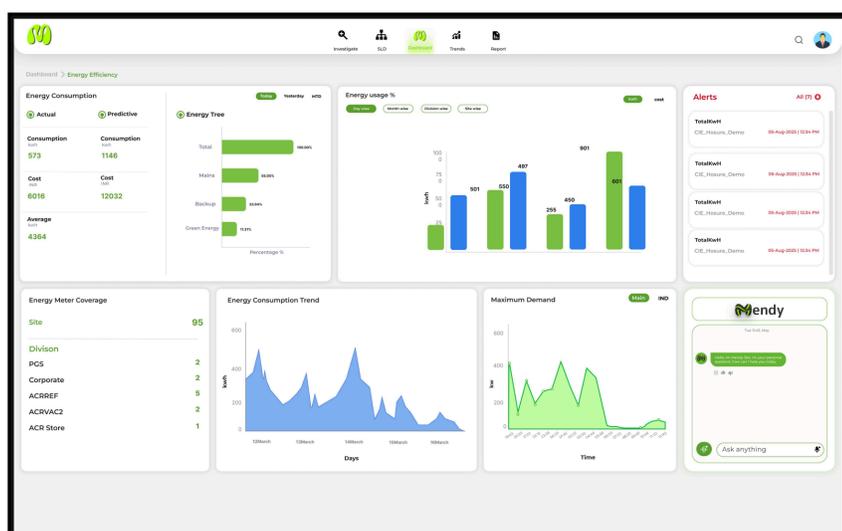
2 Unlock patterns in your data with Trends

Dive deep into historical and real-time data to identify trends, anomalies, and performance insights. Our powerful analytics engine enables you to make data-backed decisions for continuous improvement and optimized operations.



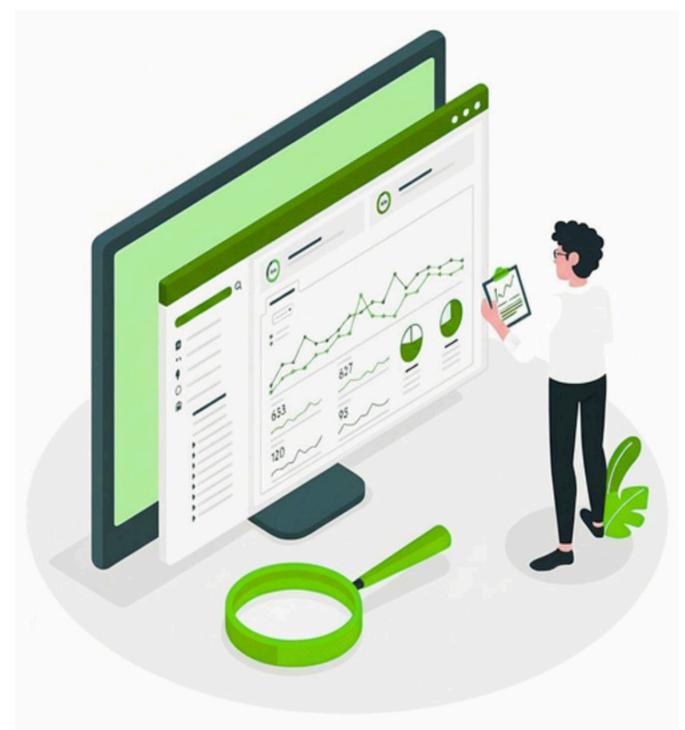
3 Centralised dashboard for unified KPI monitoring

Monitor critical KPIs across systems through a single, intuitive dashboard. Get a unified view of operations and performance metrics in real time to stay informed and in control



4 Comprehensive reporting at your fingertips

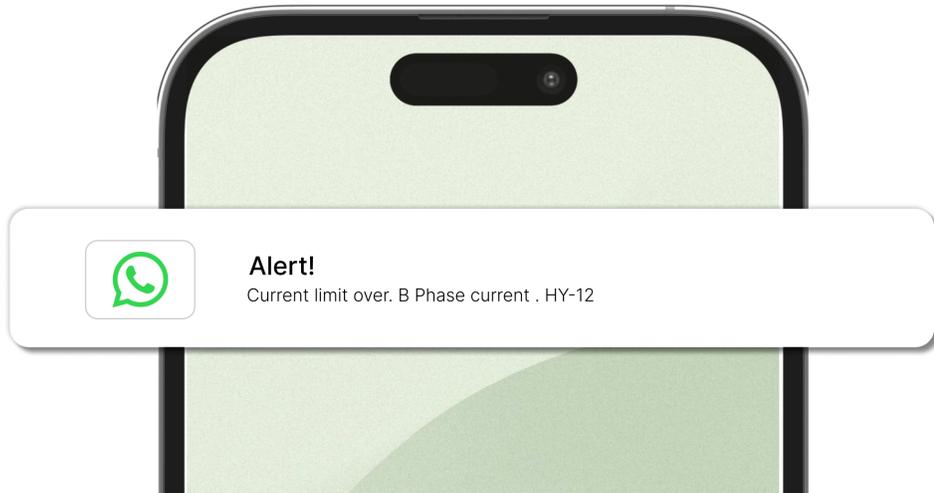
Generate detailed reports, including BRSR and maintain a digital logbook for audit trails. Ensure compliance, track progress, and make data-driven decisions with ease.



Key features

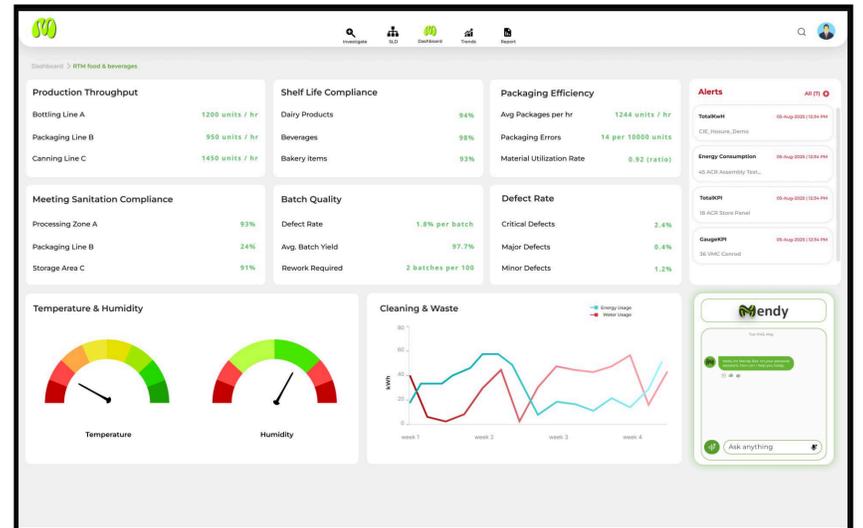
5 Real-time alerts on WhatsApp & Email

Receive critical notifications instantly via WhatsApp, and email. Set up custom alert thresholds to ensure timely responses and proactive issue resolution.



6 From alerts to actionable insights by Investigate

Analyze historical and real-time time series data to understand the root cause of alerts. Pinpoint anomalies, identify trends, and take data-driven corrective actions to prevent future issues.

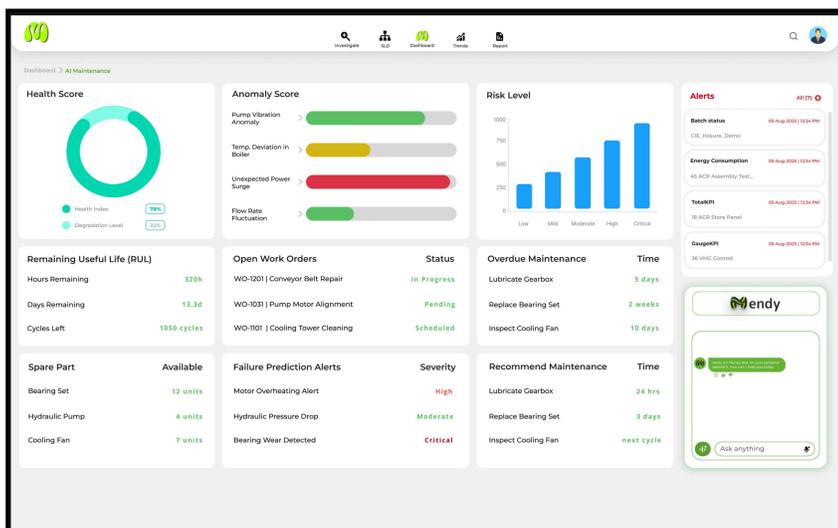


7 Seamless configuration - anytime, anywhere

Configure devices, and meters remotely using our intuitive web app to match your operational requirements, ensuring a fully adaptable and scalable solution for your building or factory.

8 Hierarchy based access control to the web application

Assign user roles and permissions based on organizational hierarchy to ensure secure and controlled access. Restrict or grant functionalities based on roles, safeguarding critical data while enabling seamless collaboration across teams.



Status	Device Name	kW	kWh	Last Reported Time
Off	CIE_Hosure_Demo		0	05-Aug-2025 12:34 PM
Off	15 PH Spare Panel 1250Amp	37%	0	05-Aug-2025 12:34 PM
Off	16 ACR ServiceShed	0	977.38	05-Aug-2025 12:34 PM
On	68 Shot Blasting Panel	10.59	47029.199	05-Aug-2025 12:34 PM
On	37 Fine Boring Conrod	1.01	44404.96	05-Aug-2025 12:34 PM
On	36 VMC conrod	1.01	44404.96	05-Aug-2025 12:34 PM
Off	37 VMC - CNC Makino	1.01	44404.96	05-Aug-2025 12:34 PM
On	CCH 35	1.01	44404.96	05-Aug-2025 12:34 PM
On	29 M/C Shop Crane Bus Bar	1.01	44404.96	05-Aug-2025 12:34 PM
Off	19 New Phosphating Plant	1.01	44404.96	05-Aug-2025 12:34 PM

9 Anytime anywhere access by mobile & web apps

Leverage a live, data-driven digital twin to replicate your factory or building virtually. Gain real-time insights, simulate scenarios, and make smarter decisions with a comprehensive view of your facility's operations.



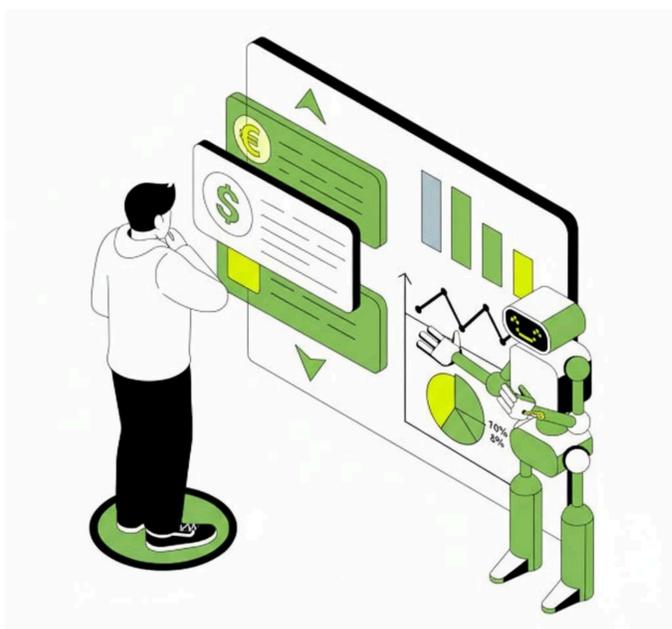
10 Low latency actuation for your critical systems

Dive deep into historical and real-time data to identify trends, anomalies, and performance insights. Our powerful analytics engine enables you to make data-backed decisions for continuous improvement and optimized operations.



11 Smarter decisions with AI-powered insights

Leverage AI-driven analytics for predictive maintenance, thermography reports, and anomaly detection. Gain proactive insights to optimize energy usage, detect faults early, and enhance overall system efficiency.



Shield in a box

Cygnus is a plug-and-play smart edge appliance that seamlessly connects legacy systems, IoT devices, and partner solutions into a unified BMS 4.0 platform. Designed for on-premise deployment, Cygnus ensures real-time data processing at the edge, reducing cloud dependency for faster insights and secure operations. It integrates Tor IoT solutions, meters, existing infrastructure, and third-party systems seamlessly—eliminating the need for costly replacements. Cygnus makes BMS deployment simple, scalable, and future-ready. We call it Shield in a Box – because it’s everything you need, in one powerful solution.



Unified BMS 4.0 Ecosystem

- Bridges legacy systems with modern IoT platforms
- Supports BACnet, Modbus, MQTT, OPC-UA, RS485, CANBUS
- Enables on-site analytics & AI-driven optimizations
- Ensures tamper-proof, encrypted data sharing



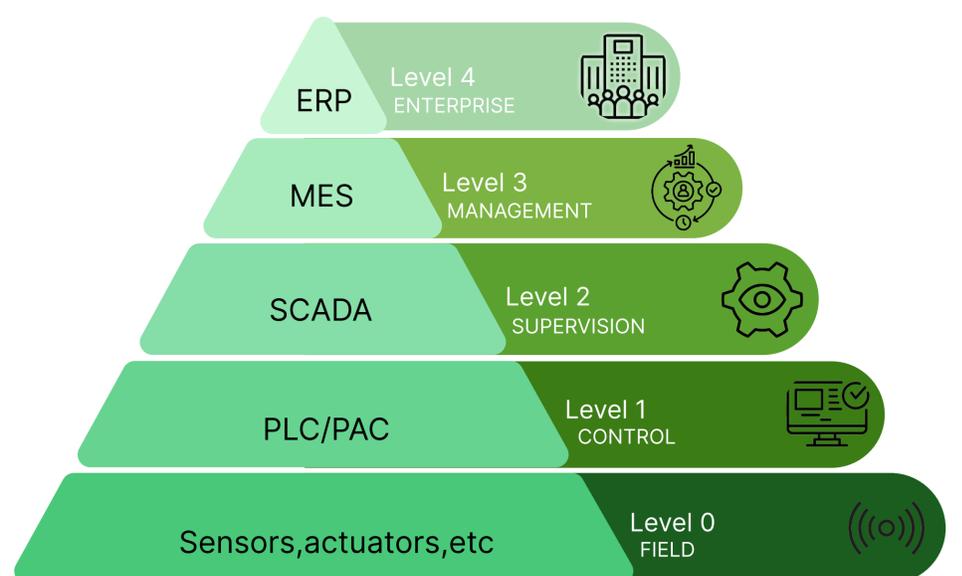
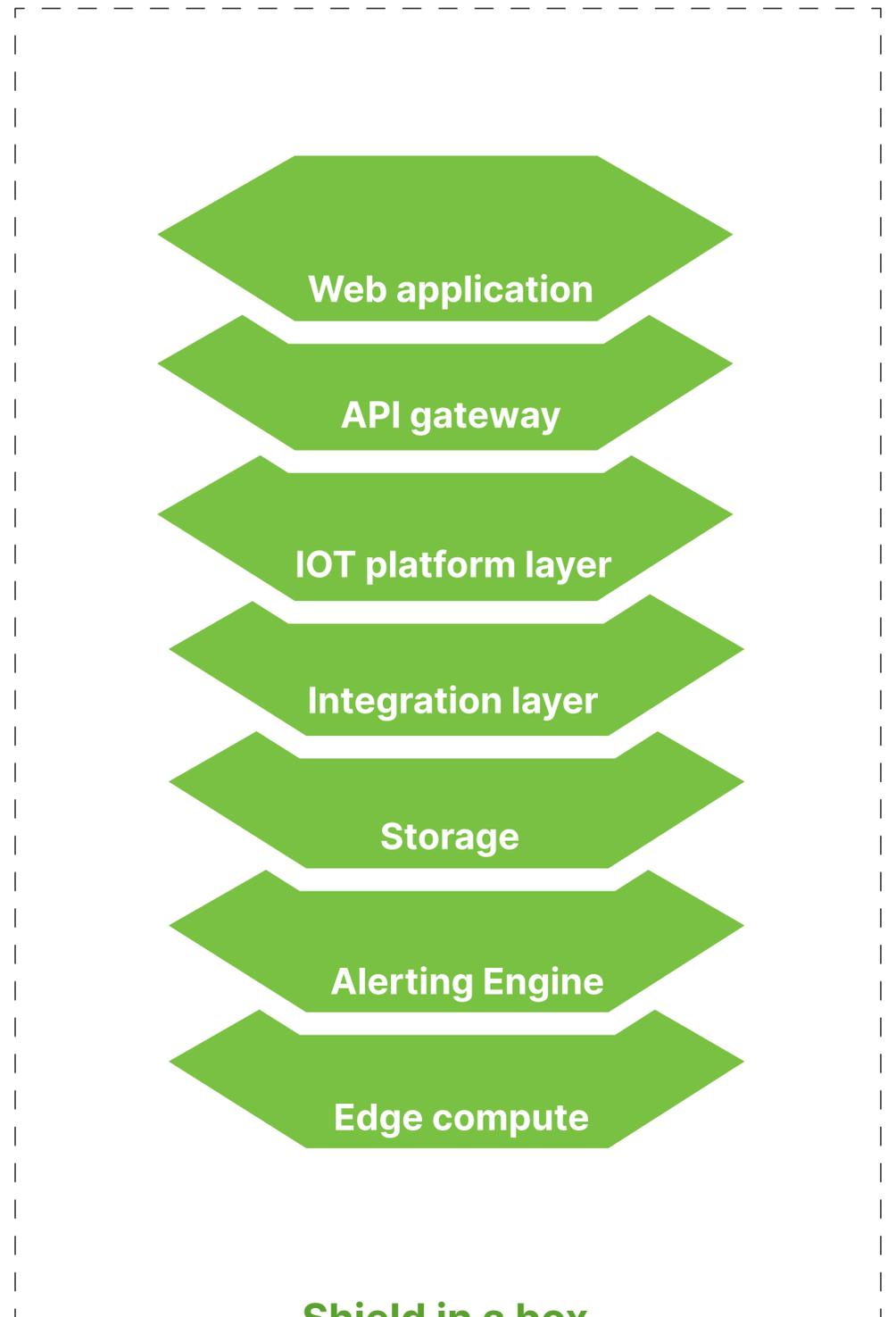
Extend capabilities beyond core

- Existing infrastructure remains intact
- Eliminates the need for costly replacements
- Multi-protocol support ensures universal compatibility



Plug-and-play deployment

- Pick and choose modules, avoiding unnecessary investments
- Modular expansion with certified partner systems
- Continuous innovation with new partner integrations



Capabilities

1

RnD

Technology refinement by 100+ inhouse team of engineers and subject matter experts in embedded systems, hardware development, type testing - validation, application and platform development.

2

Applications & Analytics

Expertise in developing and deploying customized applications with platform and database development along with managing infrastructure and security.

3

Manufacturing

Our hardware is manufactured in state-of-the-art pick and place setup for board building along with code burning bank for building multiple boards in parallel.

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