



"Turning Complex Data Into Clear Decisions"

www.bramworks.ph | info@bramworks.ph

FOREWORD



By: Malu Simeon Florendo
CEO and Founder

In an era where **industrial technology, big data analytics, and artificial intelligence** are redefining traditional engineering, **BRAMWORKS** stands at the forefront of **innovation and transformation**.

BRAMWORKS was founded on a **vision—to merge the Philippines' engineering excellence with advanced data-driven capabilities**. By integrating **cutting-edge analytics with industrial automation**, we are not only **enhancing operational efficiency** but also **elevating the country's role** in global technological advancements.

Our journey begins with the **boiler industry**, a cornerstone of **manufacturing, energy, and industrial operations**. This sector fuels critical industries such as **food production, pharmaceuticals, oil and gas, and power generation**. Through **smart data retrieval and predictive analytics**, BRAMWORKS enables manufacturers to **enhance efficiency, ensure safety, and drive sustainability**—turning raw data into **actionable insights** that improve productivity, cut costs, and optimize resources.

But our mission extends beyond technology. **BRAMWORKS** represents **Filipino ingenuity and resilience**, proving that **our nation's engineers, data scientists, and industrial leaders** can compete on the world stage. By leveraging **big data, automation, and artificial intelligence**, we are not just keeping up with technological progress—we are **leading it**.

This is just the beginning. With BRAMWORKS, we are building a future where **data intelligence drives smarter decisions, safer operations, and more efficient industries**. We invite you to join us in this **exciting journey of transformation**—where **Filipino engineering and smart technology** converge to create a **better, more connected, and data-driven world**.

BRAMWORKS represents a **groundbreaking synergy** that is transforming industries such as **Oil & Gas, the EV Sector, and Environmental Safety & Disaster Management**. By seamlessly integrating **boiler technology, controls and instrumentation, and big data analytics**, BRAMWORKS introduces a **revolutionary approach to safety, security, system efficiency, and reliability**. This convergence of **traditional industrial systems with advanced data intelligence** sets a **new standard for plant operation and maintenance**.

Integration & Efficiency

By blending **engineering expertise with smart data utilization**, BRAMWORKS enables:

- ✓ **Real-time monitoring** for instant visibility and control
- ✓ **Predictive maintenance** to prevent failures before they happen
- ✓ **Optimized system performance** across various industries

Filipino Smart Engineering: The Future of Industrial Technology

BRAMWORKS is **not just a technological advancement**—it is a **bold declaration of Filipino ingenuity**. By **converging boilers with big data analytics**, BRAMWORKS is shaping the future of **Philippine industries**—one that prioritizes **efficiency, intelligence, and national excellence**.

This **fusion of expertise and innovation** is what sets BRAMWORKS apart—not just as the **cornerstone of next-generation boiler solutions**, but as the **driving force of industry-wide transformation**.

Welcome to the future of industrial intelligence. Welcome to BRAMWORKS.

THE FUTURE OF INDUSTRIAL INTELLIGENCE STARTS WITH BRAM





FOUNDER and CHIEF

Maria Lorena "Malu" Simeon Florendo
2013 EYP Entrepreneur of the Year Finalist
2014 CEO of the Year for Innovation Finalist
Featured in Go Negosyo Book
"Top 50 Entrepreneurs of Passion"

Maria Lorena "Malu" Simeon Florendo is a visionary executive, entrepreneur, and innovator at the forefront of digital transformation in the healthcare, education, energy and technology sectors. As Vice President for Business Development, I.T., and Corporate Services at **Enertech Systems Industries, Inc.**, she plays a pivotal role in driving the company's strategic growth, market expansion, and modernization—spearheading initiatives in business development, information technology, operations, and human resource management. Malu has led forward-thinking programs that continue to push the boundaries of innovation—establishing Enertech not only as the leading name in boiler technology, but as a rising force in industrial intelligence and automation.

A Proven Track Record of Entrepreneurial Achievements

Malu's entrepreneurial spirit and passion for innovation began long before her return to the energy sector. In 2005, she founded MS Global Outsourcing, Inc., one of the Philippines' pioneering medical transcription companies. Recognized by the government as one of five flagship firms promoting the Philippine MT industry to U.S. clients, MS Global rapidly scaled under her leadership—operating 350 workstations across two shifts and serving clients in the United States, Australia, and the United Kingdom.

As global healthcare needs evolved, so did Malu's business. She transitioned MS Global into a healthcare I.T. solutions provider, launching Electronic Medical Record (EMR) platforms and earning the "Groundbreaking Technology of the Year" award from the Department of Trade and Industry (DTI) for her EMR project at the Asian Development Bank (ADB).

This evolution led to the formation of LiFEDATA Systems, Inc., a trailblazing multi-awarded healthcare technology company focused on developing advanced Electronic Health Record (EHR) platforms. Designed to seamlessly connect patients, doctors, clinics, hospitals, pharmacies, and health maintenance organizations (HMOs), LiFEDATA's solutions powered the digital transformation of healthcare in the Philippines.

After more than a decade of innovation, LiFEDATA's healthcare platform was licensed to Globe Telecom in the Philippines and LG-Technology in South Korea, further solidifying its place as a valuable digital healthcare asset. By 2019, LiFEDATA had successfully licensed its hospital platform to the Medical City group, while the remainder of its product lines and intellectual property were acquired by DNA (now Philab Holdings Corp), a Philippine-listed company.



Building a Legacy of Innovation

In 2019, during the early days of the pandemic, Maria Lorena “Malu” Simeon Florendo made a pivotal and deeply personal decision. She sold her healthcare technology company and returned to her roots—to **Enertech Systems Industries, Inc.**, the legacy enterprise founded by her father, **Engineer Guillermo C. Simeon**. This decision marked more than just a career shift—it was a powerful act of stewardship, a reconnection with her engineering heritage, and the beginning of a new chapter in Filipino industrial innovation.

Since 1978, **Enertech Systems Industries, Inc.** has earned its place as the Philippines’ leading boiler manufacturer and one of the most trusted EPCC (Engineering, Procurement, Construction, and Commissioning) providers for steam generation facilities. The company’s foundation was built on the technical mastery of Engineer Simeon, whose expertise in boiler and pressure vessel design was forged through rigorous international training at world-renowned institutions.

When Malu stepped into a strategic role in business development and corporate innovation, she brought with her not just entrepreneurial experience, but a vision for the future. Leveraging her background in digital transformation and human-centered technology, she reimagined how Enertech’s legacy could evolve in the data-driven age. It was at the height of the pandemic—when industries across the globe were forced to adapt and accelerate digitalization—that Malu, together with her uncle and long-time technical consultant, **Engineer Angelito P. Bajar**, began to shape what would eventually become **BRAM —Big Data Retrieval and Analytics Management**.

Inspired by the legacy of her father and born out of a shared passion for problem-solving and a deep understanding of operational challenges, BRAM was envisioned as a solution to address modern industrial complexity. What began as an internal innovation focused on boiler systems quickly grew into a much broader solution, touching on energy systems, predictive maintenance, plant efficiency, safety, and workforce productivity.

By 2024, this powerful vision evolved into a full-fledged company: **BRAM Data Processing Services, doing business as BRAMWORKS**. Rooted in engineering but built for the digital era, BRAMWORKS is at the forefront of AI-powered analytics, data integration, and intelligent automation. Its platform helps industries unlock the full potential of their operations—by bridging the gap between machines, people, and data. With applications across energy, manufacturing, utilities, and industrial operations, BRAMWORKS is redefining how organizations plan, perform, and evolve. And at the heart of this transformation is Malu’s unwavering commitment: to continue her family’s legacy of innovation, while leading the charge into the next frontier of Filipino Smart Engineering.

A Family Vision for the Future

In 2025, Malu’s journey entered an exciting new phase as her son, **Gabriel Florendo**, joined BRAMWORKS. Gabriel has a professional certificate from Google Coursera for UI/UX, a yellow belt in Lean Six Sigma and a student leader in De La Salle - College of Saint Benilde as COO/VP for Internals in Google Developer Student Clubs. Infusing the company with creativity, strategic foresight, and a next-generation mindset, Gabriel now works closely with his mother to further evolve the company’s reach and capabilities. Their partnership represents more than just a family business—it is a **shared mission** to use technology as a force for good, solving real-world problems and building a **smarter, more connected world**.

Purpose-Driven Innovation

At the heart of Malu’s leadership is a singular mission: **To develop transformative solutions that improve the efficiency, reliability, and sustainability of industrial systems**—starting with Enertech boilers—and to lead the digitalization of operations across industries.

Through BRAMWORKS, Malu is pioneering the integration of **big data, AI, and automation** into daily operations—empowering companies to make faster, better-informed decisions, optimize productivity, and reduce waste. By turning **complex data into actionable intelligence**, she is helping organizations thrive in an increasingly digital world. BRAMWORKS is more than a company—it is the embodiment of a legacy, a vision, and a purpose. One that champions Filipino engineering, drives purposeful innovation, and **shapes the industries of tomorrow**.



CREATIVE DIRECTOR

Gabriel Enrico Simeon Florendo

UI/UX Certificate | Six-Sigma Certificate



TECHNICAL DIRECTOR

Engineer Angelito P. Bajar

Instrumentation, Controls and Electrical Consultant
Enertech Systems Industries, Inc.

Bramworks, Emerson, and Integral have come together in a strategic tri-partite partnership to redefine industrial efficiency, automation, and data-driven decision-making. This collaboration harnesses the power of BRAM's cutting-edge big data analytics, Emerson's world-class automation and control solutions, and Integral's expertise in systems integration and industrial intelligence.

By uniting these strengths, the partnership aims to deliver next-generation smart engineering solutions, optimizing **boiler technology, energy systems, and industrial operations**. Together, we are **transforming industries with smarter, more efficient, and more sustainable innovations**.

STRATEGIC PARTNERSHIP



Powered by:



Enabled by:



Joey | Business Development, Emerson

Elmar | Vice-President, Integral

Theo | Business Development, Emerson



Malu | Chief, Bramworks



Gabriel | Creative, Bramworks



Bramworks - EnerTech NTP



Bramworks - PECIS Approval



Bramworks - BSMV



Bramworks-Integral Sponsorship

THE TECHNOLOGY THAT POWERS BRAM



COMPANY PROFILE

Emerson is a global leader in automation technology and software. We help customers in critical industries, like energy, chemical, power and renewables, life sciences and factory automation, operate more sustainably while improving productivity, energy security and reliability.

Emerson At-A-Glance BUSINESS GROUPS

SOFTWARE AND CONTROL

- AspenTech
- Control Systems & Software
- Test & Measurement
- Measurement & Analytical

INTELLIGENT DEVICES

- Final Control
- Discrete Automation
- Safety & Productivity

\$17.5 BILLION
GLOBAL SALES

FOUNDED

1890

NYSE:

EMR

HEADQUARTERS

ST. LOUIS, MO USA

WORLDWIDE



~73,000 EMPLOYEES



130 MANUFACTURING
LOCATIONS

2024 RECOGNITIONS

**MOST INNOVATIVE
COMPANIES**

Fortune

**AMERICA'S MOST
RESPONSIBLE COMPANIES**

Newsweek Magazine

BEST LARGE EMPLOYERS

Forbes

**DISABILITY INCLUSION
SEAL OF ACCOMPLISHMENT**

Center for Disability Inclusion
award for 2024

COMPANY IMPACT

20%

Global power
generation automated
using Emerson
control systems and
software

~70%

Amount of world's
LNG flowing through
Emerson valves

25 of Top 25

Life sciences
companies use
Emerson technology

19,000+

Patents on employee inventions

9 of Top 10

Semiconductor manufacturers use
Emerson technology



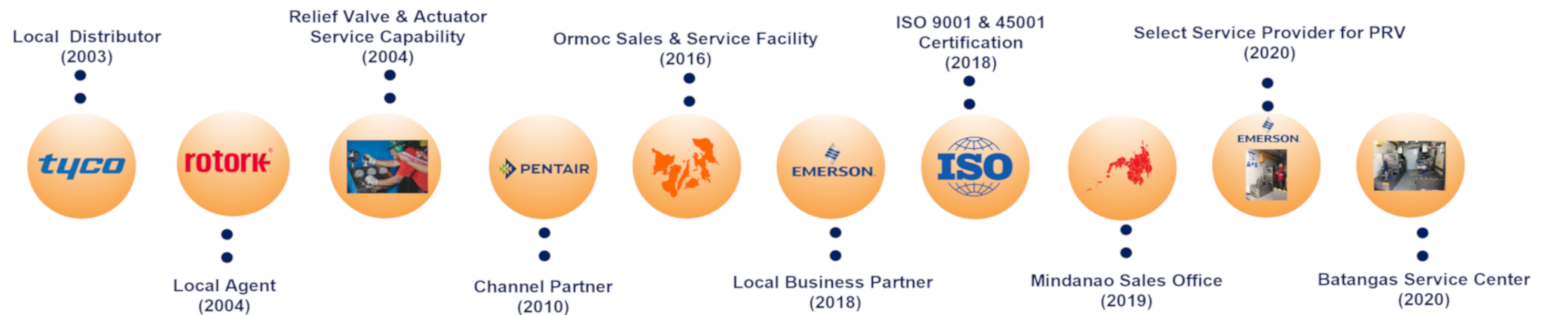
CONSECUTIVE
YEARS OF
INCREASED
DIVIDENDS

THE ENABLER THAT SUPPORTS BRAM



Company Profile

Founded in 2003, our company is a trusted provider of integrated industrial solutions, serving diverse industries across the Philippines. With a strong commitment to quality, safety, and reliability, we have established ourselves as a leader in the field, offering specialized products and services tailored to the needs of our clients.



Main Office
Mandaluyong City

Batangas Service Facility



Leyte Service Facility



CDO Sales Office



Leadership



BATANGAS SERVICE CENTER
CERTIFIED ASP LEVEL 1 FACILITY
(PRM & ISV)



ASME SEC I & VIII PRV SERVICE
COMPETENCY CERTIFICATE



ROTORK AUTHORIZED SERVICE
PROVIDER FOR ELECTRICAL FOR
ELECTRIC AND PNEUMATIC
ACTUATOR



Why Choose Us?

- ✓ More than two decades of experience – Established track record in industrial solutions
- ✓ Strong industry certifications – Ensuring compliance with global standards
- ✓ Comprehensive product & service offerings – One-stop industrial solutions provider
- ✓ Nationwide presence – Offices & service facilities across Luzon, Visayas, and Mindanao

TECHNOLOGY WITHOUT LIMITS: BRAM's SYSTEM AGNOSTIC ADVANTAGE

One of BRAM's core strengths lies in its **system-agnostic architecture**—a design philosophy that ensures **maximum compatibility, flexibility, and scalability**. BRAM is not tied to any specific hardware or software ecosystem. It is engineered to **seamlessly integrate with any existing Boiler Automation System or Programmable Logic Controller (PLC)**, regardless of brand, model, or manufacturer. Whether a facility uses Emerson PACSystems, Siemens, Allen-Bradley, Schneider Electric, or legacy systems, BRAM can interface, collect, interpret, and analyze data in real time without the need for major overhauls.

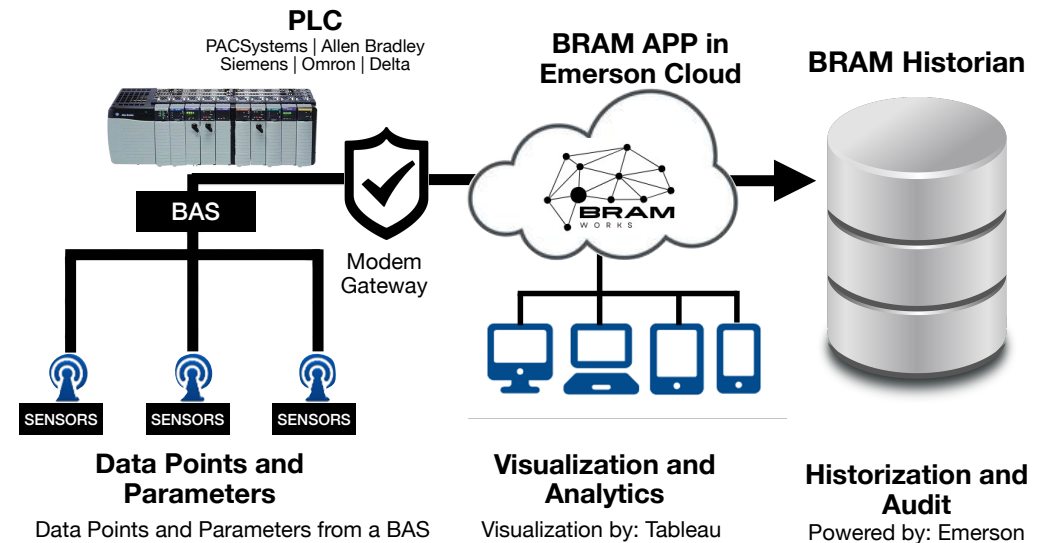
This agnostic capability empowers plant owners, engineers, and operators to **leverage BRAM's powerful analytics and AI-driven insights** without being locked into proprietary ecosystems or forced to replace existing infrastructure. It makes the adoption of Industry 4.0 technologies **more accessible, less intrusive, and highly cost-effective**, especially for industries managing a mix of old and new systems.

With BRAM, businesses gain the **freedom to evolve at their own pace**, choosing the best automation solutions for their operations while layering on a future-ready intelligence platform that brings everything together—**streamlining decision-making, improving efficiency, and unlocking new levels of operational excellence**.



BRAM works with any boiler with a Boiler Automation System (BAS). BRAM ensures safety, efficiency, and seamless integration with modern industrial environments.

BOILER AUTOMATION SYSTEM (BAS) and how it seamlessly works with BRAM



Real-World Application: BECIS Bio-Energy Plant at Nestlé Cabuyao, Philippines and the Power of Integration

A perfect example of BRAM's system-agnostic capabilities can be seen in the **EPC Project for BECIS Bio-Energy Plant at Nestlé Philippines**, where Enertech Systems Industries, Inc. deployed a cutting-edge steam generation facility. The plant is equipped with **Enertech's BRAIN++ Boiler Automation System**, integrated with a **PLC from Allen Bradley**, and supported by a mix of legacy control systems for auxiliary equipment.

BRAM was introduced as a **unifying intelligence layer**, bridging data collected by Enertech's Brain++ from various sensors, and control panels. Its system-agnostic design allows it to **seamlessly retrieve data from different sources—regardless of communication protocols or hardware brands**—and convert that data into real-time insights through a centralized analytics dashboard.

From monitoring **boiler performance and energy consumption**, to providing **predictive maintenance alerts and safety compliance logs**, BRAM will enable the BECIS Bio-Energy Plant—Nestlé team to move from reactive to proactive operations. Plant managers will be empowered with a 360-degree operational view, while executives will receive real-time KPIs that inform better decisions, improve efficiency, and reduce unplanned downtime.

This project reflects how **BRAM removes traditional integration barriers**. It proves that even with a complex mix of automation systems, industries can future-proof their operations without starting from scratch—and without being limited by brand-specific constraints.

Why BAS and PLCs need BRAM?

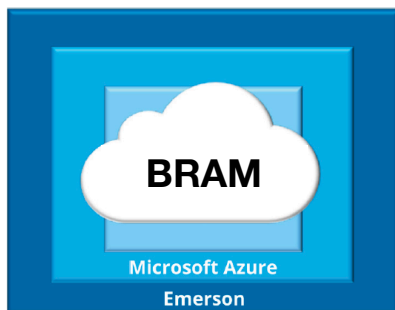
System Architecture Set-up of the System

Secure & Scalable Data Management

- **Data Encryption & Cybersecurity** – Protects sensitive operational data against cyber threats.
- **Scalability** – Adapts to small, medium, and large-scale industrial operations.
- **Customizable Dashboards & User Access Control** – Allows **role-based access** for executives, engineers, and operators.

Layers of Security

Emerson offers a wide variety of secure communication options with regional cellular and global satellite providers. Provided connections are fully encrypted and secure from the communication device back to DeltaV SaaS SCADA infrastructure through dedicated APNs (Access Point Names) and VPNs (Virtual Private Networks).



24/7/365 Support

Our dedicated Support experts are passionate about our cloud-native IIoT platform and providing you with the very best possible customer service at anytime; day or night and are happy to assist with any questions and needs. Support should be your first call or email to get the help you need.



Security

- Monthly automatic security updates
- Secure web access anywhere, anytime
- Two-factor authentication
- Backups & Disaster recovery
- 3500 Microsoft security experts



Scalability

- Mobile app anywhere, anytime access
- Customer roadmap involvement
- Customize your user groups
- Budget friendly & low cost CapEx
- 26 effortless software updates in 2023



Service

- 24x7x365 support
- eLearning courses and workshops
- Project Management available
- Data Exchange service available
- Alarm Management available

THE TRANSFORMATION OF A BOILER AUTOMATION SYSTEM (BAS)TO A MORE ROBUST SYSTEM

BASIS OF COMPARISON	BRAIN++ BAS	BRAM
Storage	Limited. Dependent on the memory of the hardware	Unlimited Storage using the scalable Cloud
Accessibility	Fixed location for access	Accessible anywhere. Portable.
No of users	Single-User or One-at-a-time	Multi-user. Persona-based
Parameters	Single parameter	Multiple parameters
Business Intelligence	Not available. Only DESCRIPTIVE AND DIAGNOSTIC REPORTS.	Integrated and customizable. DESCRIPTIVE and DIAGNOSTIC reports available. PREDICTIVE, PRESCRIPTIVE REPORTS for advanced customization.
Security	Single firewall	Advanced cybersecurity powered by Emerson. User-based OTP (One-Time Password) integrated.
Data historization	Not possible for long periods	Yes. Data history and audit feature
Scale	Not possible without upgrading hardware.	Automatic, always up to date platform updates Unlimited authorized users User-driven roadmap
Data Integration with 3rd party	Not possible	Yes
Mobile applications	Not possible	Yes
Analytics	Not possible	Machine Learning (ML) and Artificial Intelligence (AI) Engine ready
Service	Traditional PLC based	Alarm Management and Callout System Custom Reporting and Dashboards
Support	Office hours	24/7 Support 3-Tier: Expert engineers, specialists and project management

ENERTECH's BRAIN++ with BRAM BECOMES A POWERFUL INDUSTRY 4.0 TOOL



**BRAM: SMART ENGINEERING
FOR DATA-DRIVEN SUCCESS**



Vision

To be the leading force in **big data retrieval, analytics, and automation**, empowering industries with **AI-driven insights** that optimize operations, enhance decision-making, and drive sustainable growth.



Mission

BRAM is committed to **harnessing the power of big data, automation, and AI** to revolutionize industrial operations. By delivering **real-time, predictive, and prescriptive analytics**, we enable businesses to improve **efficiency, safety, and compliance**, ensuring smarter, data-driven decision-making across multiple industries.



Objectives

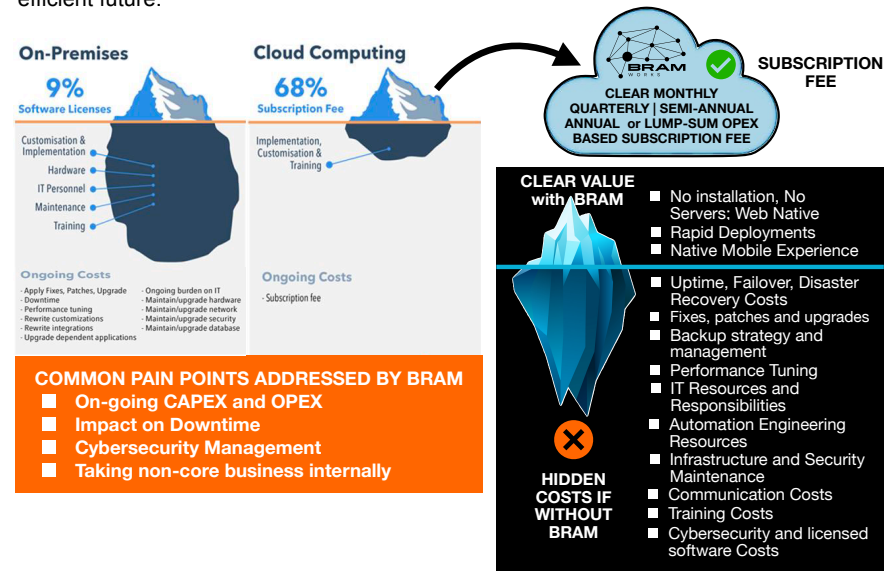
- **Optimize Industrial Efficiency** – Enhance **boiler operations, energy systems, and workforce solutions** by transforming raw data into actionable insights.
- **Drive Smart Decision-Making** – Provide executives and operators with **descriptive, diagnostic, predictive, and prescriptive analytics** to improve resource allocation and operational strategies.
- **Ensure Safety & Compliance** – Enable industries to comply with **regulatory requirements** while proactively identifying risks and preventing operational hazards.
- **Revolutionize Energy & Mobility** – Enhance **battery efficiency, smart charging infrastructure, and fleet management** in the EV industry through advanced analytics.
- **Enhance Environmental Safety & Security** – Use **risk management and predictive analytics** to support compliance, disaster mitigation, and climate adaptation strategies.
- **Expand AI & Automation Integration** – Continuously develop **AI-powered insights** that adapt to emerging technological trends and industry needs.
- **Deliver Scalable & Customizable Solutions** – Offer a flexible analytics platform tailored to meet the needs of diverse industries, from **manufacturing and energy to EVs and environmental security**.



Why BRAM?



BRAMWORKS is powered by Emerson, leveraging the robust IT infrastructure, Cloud technology and security of Emerson's DeltaV™ SaaS SCADA. Backed by the technical services and project management expertise of Integral, BRAMWORKS ensures seamless implementation and operational excellence. At its core, BRAMWORKS is strengthened by its intelligence with Enertech's legacy in boiler technology, integrating decades of engineering mastery with cutting-edge big data analytics for a smarter, safer, and more efficient future.



Why BRAM?

Core Features of the Product BRAM (Big Data Retrieval and Analytics Management)

BRAM is an advanced **big data analytics and automation platform** designed to optimize industrial operations by transforming real-time data into actionable insights. Its **core features** include:



Real-Time Data Retrieval & Integration

- **Seamless Data Acquisition** – Captures data from **boilers, sensors, PLCs, IoT devices, and industrial equipment**.
- **Multi-Industry Compatibility** – Designed for **boiler technology, EVs, energy, oil & gas, environmental safety, and workforce management**.
- **Cloud & On-Premise Deployment** – Flexible deployment options based on industry needs and security requirements.



Advanced Analytics & AI-Driven Insights

- **Descriptive Analytics** – Provides **historical data trends** for informed decision-making.
- **Diagnostic Analytics** – Identifies **root causes of inefficiencies, safety risks, and operational issues**.
- **Predictive Analytics** – Uses **AI and machine learning** to forecast equipment failures, energy consumption, and system behavior.
- **Prescriptive Analytics** – Recommends **optimal solutions** for improving efficiency, reducing downtime, and optimizing resource allocation.



Intelligent Automation & Process Optimization

- **Automated Reporting** – Generates **customized reports** for compliance, safety, and performance monitoring.
- **Remote Monitoring & Control** – Enables real-time monitoring and remote adjustments via a centralized dashboard.
- **Process Automation** – Optimizes **boiler operations, fleet management, energy distribution, and safety compliance** through smart automation.



Industry-Specific Applications

- **Boilers for Various Industry** – Enhances **boiler efficiency, predictive maintenance, and safety monitoring**.
- **Electric Vehicle (EV) Industry** – Optimizes **battery efficiency, charging infrastructure, and fleet management**.
- **Oil & Gas Sector** – Analyzes **pipeline gas data** to prevent leaks and ensure safety.
- **Environmental Safety & Security** – Supports **risk management, compliance, and disaster analytics** for climate resilience.



How Advanced is BRAM?

Real-time Monitoring (OPTION: Control Function)

- Remote access to boiler system parameters and controls.
- Real-time data visualization through customizable dashboards.
- Alerts and notifications for critical parameters and events.

Advanced Analytics and Reporting

- Data aggregation and historical data analysis
- Comprehensive reporting tools for performance analysis and compliance.

Scalability and Flexibility

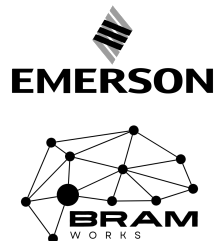
- Scalable infrastructure to accommodate growing data and user demands.
- Flexible integration with existing systems and third-party applications.

Security and Compliance

- BRAM is Powered by: Emerson. Emerson provides the connections that are encrypted and secured from the communication device back to the cloud-platform infrastructure through dedicated Access Websites and Virtual Private Network (VPNs) with our telecom partners.
- Full data backups occur nightly, and storage amounts are not limited, nor quota driven with zero limitations on content or data fields with 'always-on' continuous security monitoring platform performance.
- Easily access current, user-friendly data for real-time, accurate decision-making operational gains via 2F (two factor) authentication.

BRAM is powered by Emerson

- BRAM's strength lies in the infrastructure and cybersecurity of Emerson's Delta V SaaS SCADA.
- BRAM provides data visibility and asset control for key personnel across our clients' organization while capturing near real-time information with two-way communication for a variety of field devices, backed by experts from every angle.



Competitive Edge of BRAM



Unlimited User Account



Fully Managed and Delivered Service



Evergreen Technology Development



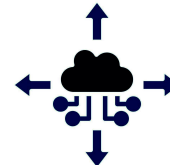
Integrated and Accessible Data Anytime, Anywhere



Alarm Management



Secure Telecom Connectivity



Business Scalable Cloud Platform



Mobile App



24/7/365 Service and Support



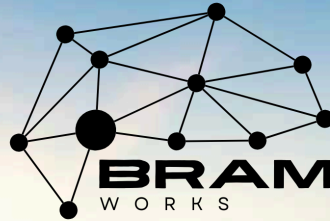
Active Platform and Security Monitoring



Integrated End to End Solution



Simple Total by Month, Quarter, Semi-Annual or Annual Fee



*"Turning Complex Data
Into Clear Decisions"*

INDUSTRY APPLICATIONS

BRAM WORKS IN MANY WAYS



BRAM: Smarter Boilers, Smarter Decisions for Various Industries

BRAM integrates with a boiler's PLC system to provide real-time data retrieval, analytics, and automated reporting.

For Manufacturing & Industrial End-Users:

- **Descriptive Analytics:** Real-time data tracking to monitor steam generation, pressure, and efficiency.
- **Prescriptive Analytics:** AI-driven recommendations for energy savings and boiler optimization.
- **Preventative & Predictive Maintenance:** Proactively detect issues before failures occur, reducing downtime and repair costs.
- **Safety & Compliance:** Ensure boiler operations meet regulatory standards with automated reporting.

Why Choose BRAM?

- ✓ **Enhances Boiler Efficiency** – Maximizes energy use while reducing costs.
- ✓ **Reduces Unplanned Downtime** – Predicts maintenance needs before failures occur.
- ✓ **Improves Safety & Compliance** – Automates reporting and regulatory adherence.
- ✓ **Scalable for Any Industry** – Works for food, pharma, oil, healthcare, and more.

Key Differentiators:

- **Seamless PLC Integration:** Retrieves and processes data directly from boilers.
- **AI-Powered Insights:** Transforms complex boiler data into actionable decisions.
- **Energy Efficiency Optimization:** Reduces fuel consumption and operational costs.
- **Predictive Maintenance Alerts:** Prevents breakdowns and costly unplanned shutdowns.
- **Compliance Automation:** Keeps boiler operations within regulatory standards effortlessly.

Upgrade your boilers with intelligence. BRAM ensures maximum efficiency, safety, proper documentation and profitability.

Who will Benefit?



Industrial End-Users (Manufacturers, Hospitals, Power Plants, etc.): Reduce fuel costs, optimize operations, and prevent boiler failures.



Operations & Maintenance Teams: Get automated reports and alerts to maintain peak boiler performance.



Owners, Executives & Plant Managers: Make data-driven decisions to enhance overall plant efficiency.

First Industries Served



Food & Beverage Industry



Oil and Gas Industry



Hotels and Resorts Industry



Pharmaceutical & Chemical Industry



Hospital and Healthcare Industry



Agricultural Products Processing Industry

Key Features



Real-Time Boiler Monitoring: Track performance data to optimize steam usage.



AI-Powered Predictive Maintenance: Detect issues before they cause breakdowns.



Automated Reporting & Compliance: Ensure regulatory adherence effortlessly.



Energy Efficiency Optimization: Reduce fuel consumption and improve cost savings.



Seamless Cloud Integration: Access insights anytime, anywhere.

How it Works



Brain++ collects data from sensors and transmitters



BRAM connects to the boiler's PLC system to retrieve real-time data.



AI-powered analytics process operational patterns and detect inefficiencies.



Automated alerts and reports provide recommendations for better performance and maintenance.



A centralized dashboard allows users to monitor and manage boiler operations efficiently.





Oil & Gas Industry: Intelligent Solutions for Secure, Reliable & Steady Operations

Imagine a world where gas leaks are detected before they become hazards, where businesses optimize their gas usage to cut costs, and where homeowners have real-time insights into their consumption—all with a single intelligent system. This is the power of BRAM.

Problem Statement

- Gas leaks are a silent but deadly threat, causing fires, explosions, and health risks.
- Businesses suffer from inefficiencies and high gas costs due to lack of consumption insights.
- Residents worry about unexpected gas outages, rising bills, and safety concerns.

BRAM transforms gas safety and efficiency through real-time monitoring, predictive analytics, and automated alerts.

For Businesses (Restaurants, Canteens, Hotels, Commercial Establishments, Oil and Gas Distribution, Fuel Stations):

- Instant leak detection & emergency shutdown.
- Smart gas analytics to reduce waste and control costs.
- Automated compliance tracking for fire and safety regulations.

For Residential Consumers:

- 24/7 real-time monitoring for ultimate peace of mind.
- Personalized gas budgeting insights to prevent bill surprises.
- Automated safety features to protect homes and families

Key Differentiators:

- Real-Time Gas Leak Alerts: Instant notifications via SMS, email, or mobile app.
- Smart Consumption Analytics: Optimize gas usage and reduce operational costs.
- Seamless Integration: Compatible with existing gas infrastructure and smart home systems.
- AI-Driven Predictive Maintenance: Prevent failures before they happen
- Compliance & Safety Automation: Meets industry standards effortlessly.

Gas safety and efficiency should never be an afterthought. With BRAM, you gain control, security, and savings—all in one smart platform. Let's schedule a demo today and see how BRAM can revolutionize your gas management.

Who Benefits from BRAM?

- Business Owners (Restaurants, Hotels, Canteens, Commercial Properties): Prevent leaks, reduce costs, ensure compliance.
- Homeowners & Residents: Gain real-time gas monitoring, safety alerts, and usage insights.
- Gas Distributors & Utility Providers: Improve service reliability and enhance customer safety.

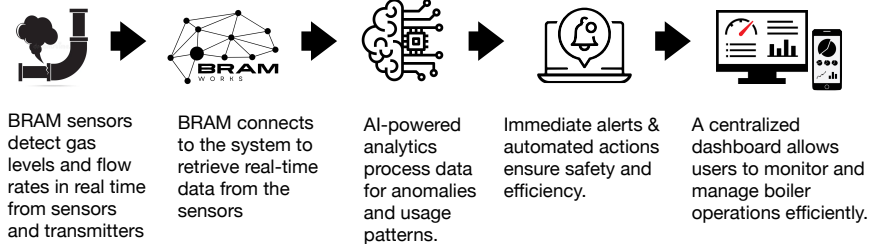
Key Features & Benefits:

- Instant Leak Detection & Alerts: Prevents hazards with real-time notifications.
- Smart Usage Analytics: Tracks gas consumption trends to optimize costs.
- Automated Emergency Cut-Off: Shuts down gas supply in case of detected leaks.
- Predictive Maintenance: Identifies potential failures before they occur.
- Home & Business Safety: Ensures 24/7 monitoring and regulatory compliance.

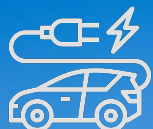
Why Choose BRAM?

- Advanced Technology: Combines IoT, AI, and big data analytics.
- User-Friendly Interface: Mobile & desktop access for convenience.
- Proven Reliability: Trusted by industries for safety & operational efficiency.
- Tailored for B2B & B2C: Addresses both corporate and residential needs.

How it Works



BRAM: Powering Safety and Intelligence in Homes, Businesses, and Communities.



Electric Vehicle Industry



The future of mobility is electric, but the true game-changer is data. BRAM transforms EV performance, charging infrastructure, and fleet management with real-time analytics and AI-driven insights. The result? More efficient batteries, smarter charging, and cost-optimized fleet operations.

Problem Statement:

- Battery Degradation & Range Anxiety: EV users struggle with inconsistent battery performance and unpredictable range.
- Charging Infrastructure Limitations: Businesses and consumers face inefficiencies in charging station availability and energy costs.
- Fleet Management Challenges: Logistics and transport companies lack real-time data to optimize EV fleet operations.

The BRAM Solution:

BRAM leverages advanced analytics to enhance battery efficiency, optimize charging infrastructure, and streamline fleet operations

For EV Manufacturers & Battery Providers:

- AI-driven battery health monitoring for predictive maintenance.
- Real-time analytics to improve energy storage and lifespan.
- Enhanced battery performance insights for R&D.

For EV Charging Networks & Infrastructure Providers:

- Intelligent charging demand forecasting to prevent grid overload.
- Smart scheduling for EV charging stations to reduce wait times.
- Cost-efficient energy management for peak and off-peak hours.

For EV Fleet Operators & Logistics Companies:

- Data-driven route optimization to extend battery range.
- Automated fleet performance tracking and predictive maintenance.
- Energy-efficient charging schedules to reduce operational costs.

BRAM – Ready to Power the Future of Electric Mobility.

Key Differentiators:

- ✓ Battery Health & Performance Analytics: Maximizes EV lifespan and efficiency.
- ✓ Smart Charging Optimization: Reduces downtime and energy costs.
- ✓ Real-Time Fleet Monitoring: Enhances operational efficiency and predictive maintenance
- ✓ Seamless Integration: Works with existing EV and charging station ecosystems.
- ✓ AI-Driven Insights: Turns complex data into actionable decisions for EV stakeholders.

Who Benefits from BRAM?

-  **EV Manufacturers & Battery Providers:** Extend battery lifespan and improve efficiency.
-  **Charging Network Operators & Energy Providers:** Optimize station usage and energy costs.
-  **EV Fleet Operators (Logistics, Ridesharing, Public Transport):** Reduce downtime and enhance operational efficiency.
-  **EV Consumers:** Gain real-time battery health insights and smart charging recommendations.

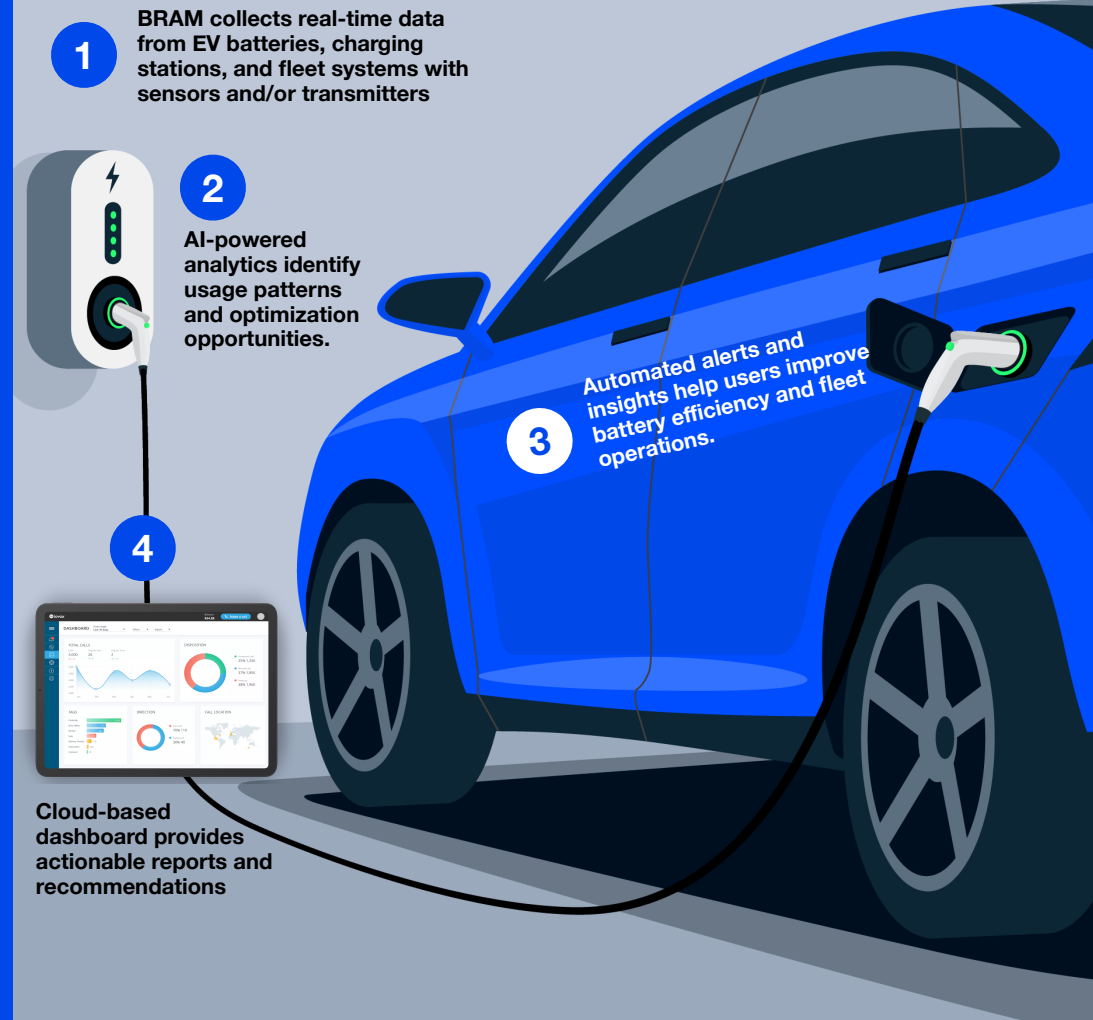
Key Features & Benefits:

- **Battery Performance Monitoring:** Tracks degradation and optimizes charging cycles.
- **Smart Charging Schedules:** Reduces costs and prevents grid overload.
- **Fleet Route Optimization:** Maximizes mileage while minimizing energy use.
- **Predictive Maintenance:** Prevents unexpected EV failures.
- **Charging Demand Forecasting:** Ensures better availability of charging stations.

Why Choose BRAM?

- **AI-Driven Battery Insights:** Maximizes energy efficiency and lifespan.
- **Seamless Charging Optimization:** Reduces wait times and energy costs.
- **Fleet Efficiency at Scale:** Keeps logistics and transport companies running smoothly.
- **Future-Ready Technology:** Designed for the evolving EV ecosystem.

How it works





BRAM for Environmental Safety, Security & Compliance

In an era of increasing environmental risks, safety concerns, and regulatory demands, organizations need a smarter way to manage risk, ensure compliance, and prevent disasters. BRAM transforms raw data into actionable insights—enhancing safety, protecting lives, and securing operations. With real-time analytics and predictive capabilities, BRAM empowers organizations to stay ahead of risks before they become crises.

Problem Statement

- **Unpredictable Environmental Hazards:** Businesses and communities struggle to anticipate and mitigate risks from climate change, industrial hazards, and natural disasters.
- **Regulatory Compliance Challenges:** Organizations face mounting pressure to meet stringent environmental and safety regulations, often relying on outdated manual reporting.
- **Reactive Incident Management:** Most safety and security protocols are triggered after an event occurs, leading to higher costs and operational disruptions.

The BRAM Solution

BRAM leverages big data analytics, AI-driven insights, and predictive modeling to create safer environments, ensure regulatory compliance, and enable proactive disaster management.

For Risk Management & Safety Officers:

- Identify, assess, and mitigate potential safety risks in real time.
- Prevent workplace hazards and industrial accidents before they escalate.
- Automate reporting for faster response and regulatory alignment.

For Compliance & Environmental Regulators:

- Ensure adherence to environmental laws and industry safety standards.
- Generate automated compliance reports with auditable data trails.
- Reduce penalties and reputational risks by proactively addressing violations.

For Disaster Preparedness & Emergency Response Teams:

- Use predictive analytics to anticipate environmental and industrial disasters.
- Leverage AI-driven simulations to develop response strategies and resource allocations.
- Improve community and corporate resilience through real-time monitoring and alerts.

Key Differentiation of BRAM:



Predictive Risk Analytics: AI-powered models forecast potential safety threats and environmental hazards.



Incident Prevention & Mitigation: Detect anomalies and trigger proactive responses before crises unfold.



Automated Compliance Monitoring: Track and report regulatory adherence with real-time audit trails.



Climate & Disaster Impact Analysis: Assess environmental risks and develop contingency plans based on data trends.



Emergency Response Optimization: Improve disaster response times with data-driven resource allocation.

Industries Served:

- **Manufacturing & Industrial Plants** – Prevent workplace accidents and ensure safety compliance.
- **Oil, Gas & Energy** – Monitor environmental impact and prevent hazardous leaks.
- **Government & Municipalities** – Enhance disaster preparedness and risk assessment.
- **Healthcare & Public Safety** – Strengthen emergency response and health risk mitigation.
- **Construction & Infrastructure** – Improve structural safety and reduce environmental footprint.

Why Choose BRAM?

- ✓ **Proactive Risk Management:** Move from reactive to predictive safety strategies.
- ✓ **Regulatory Confidence:** Automate compliance reporting and minimize legal risks.
- ✓ **Life & Asset Protection:** Enhance emergency preparedness and disaster resilience.
- ✓ **Sustainable & Secure Operations:** Leverage smart analytics to reduce environmental impact.

Safety and compliance should never be reactive. With BRAM, organizations can anticipate risks, ensure regulatory adherence, and protect lives through smart, data-driven decisions.

BRAM IN ACTION

AI-Driven Reports & Analytics in BRAMWORKS

BRAMWORKS transforms raw industrial data into actionable insights through **AI-driven reports and analytics**. By leveraging **machine learning, predictive modeling, and real-time data processing**, BRAMWORKS delivers precise, data-backed reports that help industries optimize operations, enhance safety, and improve decision-making.

1. Predictive Analytics & Failure Prevention

- **AI-powered trend analysis** detects patterns in boiler performance, EV charging efficiency, gas distribution, and environmental risks.
- **Predictive failure reports** highlight potential breakdowns before they occur, allowing for proactive maintenance.
- **Risk-based maintenance scheduling** optimizes servicing, reducing downtime and operational costs.

2. Real-Time Monitoring & Smart Alerts

- **Live dashboards** provide continuous visibility into system performance, energy usage, emissions, and operational anomalies.
- **AI-driven anomaly detection** instantly flags irregularities in temperature, pressure, gas leaks, or equipment behavior.
- **Automated alerts & recommendations** guide operators on corrective actions before issues escalate.

3. Prescriptive Analytics for Optimized Performance

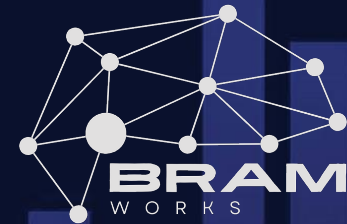
- **AI-generated reports** don't just describe what happened—they recommend what to do next.
- **Scenario-based modeling** allows executives to simulate different operational strategies for energy efficiency and cost reduction.
- **Optimization algorithms** suggest process adjustments to improve fuel efficiency, emissions control, and system reliability.

4. Compliance & Risk Analytics

- **Regulatory compliance tracking** ensures adherence to industry standards in boiler operations, environmental safety, and workplace security.
- **Incident analysis reports** provide a breakdown of safety breaches, root causes, and preventive measures.
- **ESG (Environmental, Social, and Governance) reporting** supports sustainability efforts and corporate responsibility.

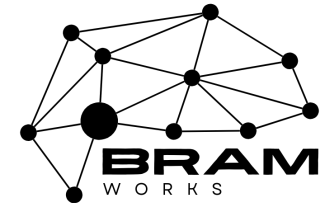
5. AI-Enhanced Business Intelligence

- **Customizable executive reports** give top-level insights tailored to key business goals.
- **Data visualization tools** (charts, heat maps, and trend graphs) make complex data easy to interpret.
- **KPI tracking & benchmarking** helps industries measure performance against industry standards and competitors.



With **BRAMWORKS AI-driven analytics**, businesses don't just collect data—they gain **intelligent insights** that drive **efficiency, safety, and profitability**.



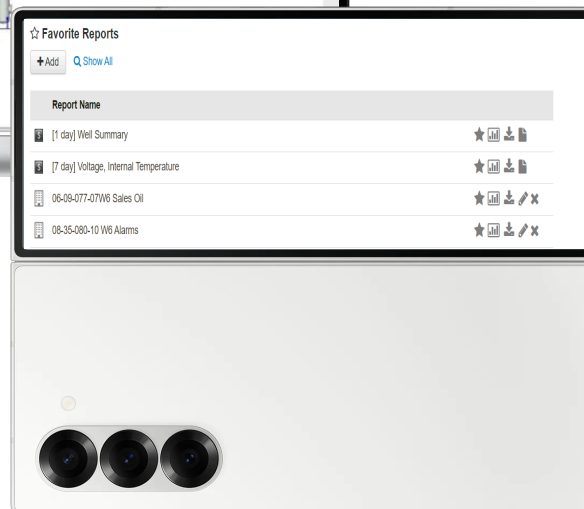


1

The main dashboard provides a high-level overview of system performance, analytics, and alerts in real time. A clean, intuitive interface displays live metrics, such as pressure, temperature, fuel consumption, and emissions. Users can easily toggle between data views—hourly, daily, or monthly—and see quick insights through visually engaging charts and gauges. Color-coded indicators show system status at a glance, enabling immediate action when thresholds are breached.

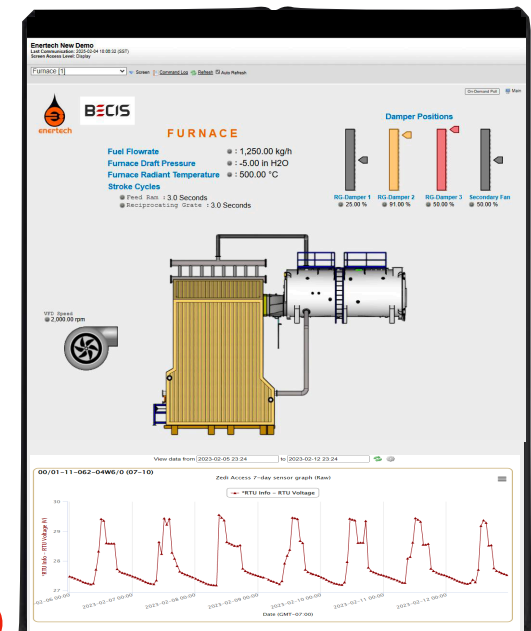
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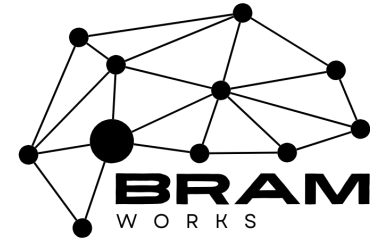
Users can generate customized reports and explore data-driven insights across different departments—Operations, HR, Maintenance, and Finance. The UI allows drag-and-drop report building, exporting of visual dashboards, and KPI tracking across time. The system uses AI to suggest performance optimizations and highlight inefficiencies.



2

This screen highlights BRAM's AI-driven predictive maintenance feature. The interface shows upcoming maintenance schedules, risk predictions, and machine learning-driven alerts. A timeline view tracks the historical performance of equipment, while the analytics engine flags potential failures before they occur. Users can drill down into each boiler unit or component for detailed diagnostics and suggested actions.





Powered by:



Enabled by:



Visualization by:



*Ask for a presentation or demo of our customized solution per industry

Summary Locations Map Analytics

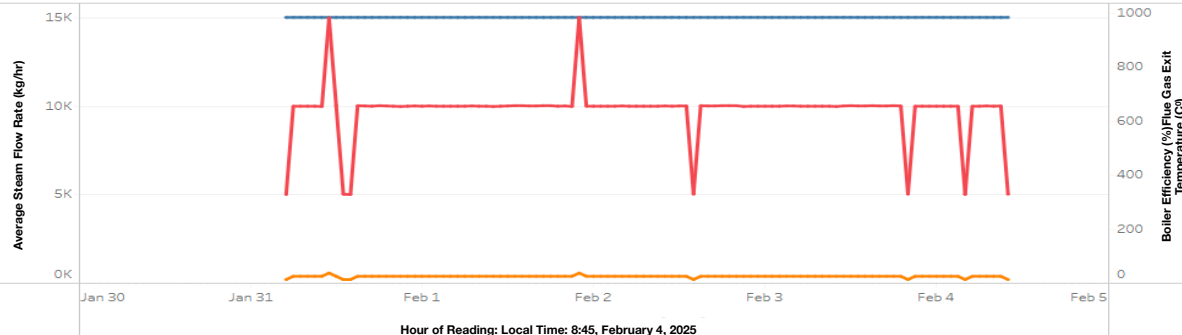
Boiler Summary

Boiler

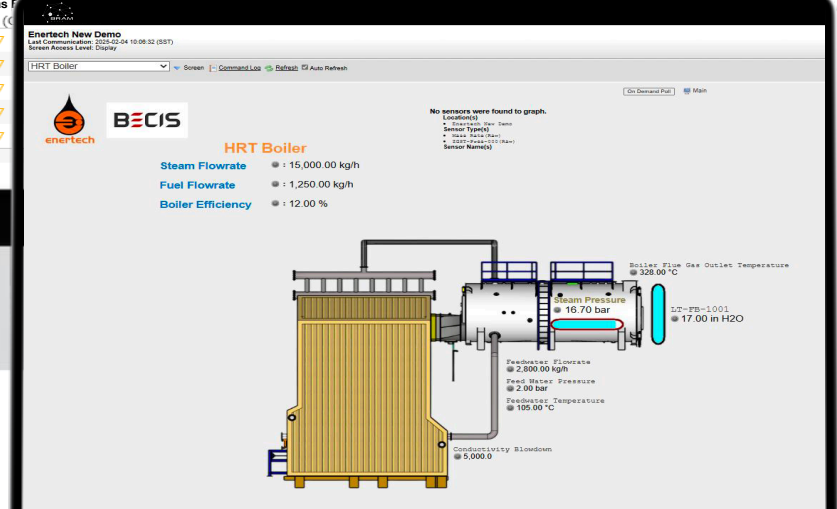
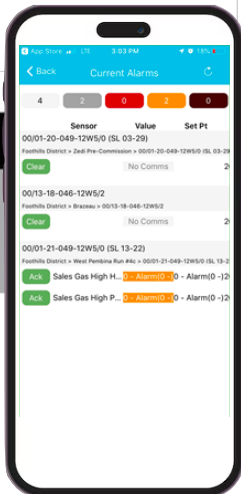
Boiler Summary

Measure Names

Steam Flow Ra... Boiler Efficiency... Flue Gas Temperature



Nestle Bio-Energy Plant	Day of Reading	Avg. Steam Pressure (Bar)	Steam Flow Rate (Kg/hr)	Avg. Fuel Flow Rate (Kg/hr)	Avg. Boiler Efficiency (%)	Avg. Flue Gas Temp (C)
Enertech - BECIS Account	February 4, 2025	16.78	15,000	1,250	12.00	327
	February 3, 2025	16.75	15,000	1,250	12.00	327
		16.76	15,000	1,250	12.00	327
		16.76	15,000	1,250	12.00	327
		16.74	15,000	1,250	12.00	327



THE FUTURE OF BRAMWORKS

The Future of BRAM: Scaling Innovation Across Industries

With BRAM's strong foundation in **big data retrieval, analytics, and automation**, its future is set to revolutionize multiple industries through continuous advancements in **AI, machine learning, and industrial automation**. Based on current plans, BRAM's growth trajectory will focus on **scalability, industry expansion, and deeper technological integration**.

1. Expanding Industrial Applications

- **Boiler Industry** – From predictive maintenance to full-scale **AI-driven automation**, BRAM will enhance boiler efficiency, reduce downtime, and optimize fuel usage for sustainability.
- **Electric Vehicles (EVs)** – Future developments will focus on **AI-powered fleet optimization, adaptive charging networks, and battery analytics** to improve EV performance and adoption.
- **Oil & Gas Sector** – BRAM will extend its **real-time gas leak detection and safety analytics** to help businesses and residential consumers manage risks more effectively.
- **Environmental Safety & Security** – The system will advance its **risk management and disaster analytics** to support climate adaptation strategies and government regulations.

2. AI-Driven Enhancements & Autonomous Decision-Making

- **Self-Learning Algorithms** – BRAM will evolve to provide even more **accurate predictive and prescriptive analytics**, reducing human intervention.
- **Autonomous Industrial Operations** – Integration with **robotics and AI-driven process automation** will minimize risks and maximize efficiency.
- **AI-Powered Risk & Compliance Monitoring** – BRAM will become a proactive safety system, capable of **automating compliance processes** and preventing hazardous incidents before they occur.





3. Cloud & IoT Integration for Seamless Connectivity

- Smart IoT Connectivity – BRAM will further integrate with sensors, drones, and real-time monitoring systems to improve data accuracy and operational insights.
- Cloud-Based Solutions – A shift toward cloud computing will enhance remote monitoring, allowing businesses to access real-time insights anytime, anywhere.
- Cross-Industry Data Interoperability – BRAM will act as a universal analytics platform, enabling industries to share, compare, and optimize operational strategies using aggregated data.

4. Market Expansion & Global Reach

- Industrial Partnerships & Licensing – BRAM will establish partnerships with global manufacturers, automation providers, and energy companies to expand its market presence.
- Smart Cities & Sustainability – Future applications will extend to urban planning, traffic management, and energy distribution, reinforcing BRAM's role in creating smarter, greener cities.
- Workforce AI & HR Integration – As BRAMWORKS expands, BRAM's analytics will be used to enhance HR management, workforce efficiency, and talent optimization.

5. BRAM as a Data-Driven Enterprise Intelligence Platform

As BRAM grows, it will transform from an industrial analytics tool to a full-scale enterprise intelligence system, offering businesses:

- Industry-Specific AI Solutions tailored to unique challenges
- Real-Time Decision Support Systems for executives and operators
- End-to-End Automation & Analytics Integration across boilers, EVs, oil & gas, safety, and workforce solutions

BRAMWORKS^{HR}

"Where Smart Talent Meets Smart Tech."

BRAMWORKS HR is the human resources and services arm of BRAMWORKS, purpose-built to deliver highly skilled talent equipped with advanced tools, real-time data, and continuous technology training. At the core of our operations is **BRAM (Big Data Retrieval and Analytics Management)** — our proprietary platform that seamlessly integrates workforce performance with machine-level data.

We go beyond traditional manpower deployment. Our teams are trained to deliver Operations & Maintenance (O&M) services with precision, supported by BRAM dashboards that provide real-time insights into equipment health, safety metrics, and performance KPIs. From technicians to supervisors, every individual is empowered to make data-driven decisions on the ground.

Our integrated technology training programs are designed around the BRAM platform, ensuring that every worker understands how to interpret data, respond proactively, and continuously improve operational outcomes. Whether it's interpreting boiler performance trends or optimizing shift productivity, BRAM-enabled insights drive smarter, safer, and more efficient work.

With BRAM, we turn human capital into a strategic advantage — not just managed, but optimized for performance, reliability, and innovation.



Operate and Maintain Contracts



Supply of TESDA-Certified workers



Boiler Training



OPPG F11 Pro



Safety Officers

BRAMWORKS^{EDU}

Through BRAMWORKS, learners are trained to operate and analyze industrial systems using the same tools professionals use in the field — building a smarter, job-ready workforce equipped for the demands of Industry 4.0.

STEAMLAB MINI POWER PLANT INCLUDES THE FOLLOWING:

- 5-10HP Enertech Firetube Boiler to demonstrate steam generation and heat transfer, complete system with:
 - Boiler Accessories
 - Olympia Burner
 - Anti-Pollution System
- Steam Turbine/Generator Set to show the conversion of thermal energy to mechanical and electrical energy
- Control Panel with Indicators to simulate plant control systems with pressure, temperature, flow and voltage displays
- Cooling System - basic condenser or water cooled loop to complete the thermodynamic cycle
- Boiler Automation System: Enertech Brain++ with sensors for pressure, temperature, vibration, steam flow, power output, etc.
- BRAM for Instrumentation and Data Analytics to demonstrate how data from operations can be retrieved, visualized and analyzed real time.
 - Comes with digital dashboard interface
 - Comes with a mobile app for student interaction and monitoring
- Optional: Container Van structure with MCC
- Solar Panel

BRAMWORKS, in cooperation with **Enertech Systems Industries, Inc.** and the **Enertech Training Center (ETC)**, now offers a **holistic solution** tailored to meet this requirement. Our integrated package provides not only the physical infrastructure and equipment needed for a Mini Power Plant Lab but also access to **cutting-edge training, technology-driven insights, and real-time data analytics** through the **BRAM platform (Big Data Retrieval and Analytics Management)**.

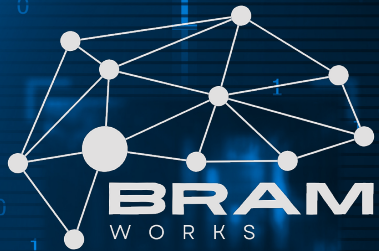
This partnership ensures that schools and universities can deliver industry-relevant, future-ready education by combining hands-on training with digital tools that mirror real-world industrial environments — empowering the next generation of engineers with the skills, technology, and mindset to lead.



**SteamLab: Shaping
Tomorrow's Engineers,
One Data Point at a Time**

STEAMLAB KEY DIFFERENTIATORS FOR THE UNIVERSITY

- 1 Five (5) year Subscription to BRAMWORKS^{EDU} with E-learning content from STEAMLAB which includes:
 - Lectures that follow CHED's guidelines
 - Online content: tests, exercises with gamification features
 - Grading and ranking platform for eLearning
 - PSME credited seminars for continuing education
 - Analytics we can share with the school to know their students performance
- 2 Excursion and Tour of Enertech Plant with Boiler Technology Lecture and Refreshments onsite
- 3 OJT for Top 10 Students
- 4 Feature ME Student Projects at the SteamLab eLearning Community
- 5 One (1) free Post-Bachelor Seminar with PSME Credit for all graduates using their Membership to BRAMWORKS
- 6 Be part of an online SMART Community and join their online and events and activities that teach students about Industry 4.0



BRAMWORKS

"Turning Complex Data Into Clear Decisions"

www.bramworks.ph