Industrial Energy Information Management System

BLUEMARVEL

Transform Variable Energy & Consumable Costs into Managed Expenses & Achieve 5-8% in Sustained Savings

Industrial EMIS

Industry 4.0 Compliant & Cloud Based

Modern Resource Management

Challenge: industrial energy management has been brought into focus through the current sustainability programs of most organizations. Ensuring energy and other consumables are efficiently consumed and produced has become a top priority. Tools are needed to track carbon emissions and energy use to improve efficiency.

Solution: EMIS is a cloud native application with powerful visualization tools that allow organizations to effectively measure, analyze, and report on energy used. Built around the ISO 50001 energy management standard, the solution provides a framework to manage energy, and other consumable resources, across one or more industrial operations. Through continuous tracking of energy streams, our solution enables you to make your operation more profitable and sustainable by managing these variable costs.

Solution

Understand & Manage Your Energy

Digital Advantage

Real-Time Monitoring: Visualize your data and KPIs with easy-to-use dashboards.

Cost Tracking: Understand your true cost by tracking actual consumption and production data vs. target performance.

Multi-Site Benchmarking: Look at aggregated figures from across your operations or drill into a single site.

Automated Alerts: Get alerts so you know when poor energy performance occurs.

Actionable Intelligence: Turns your energy and consumables data into actionable intelligence.

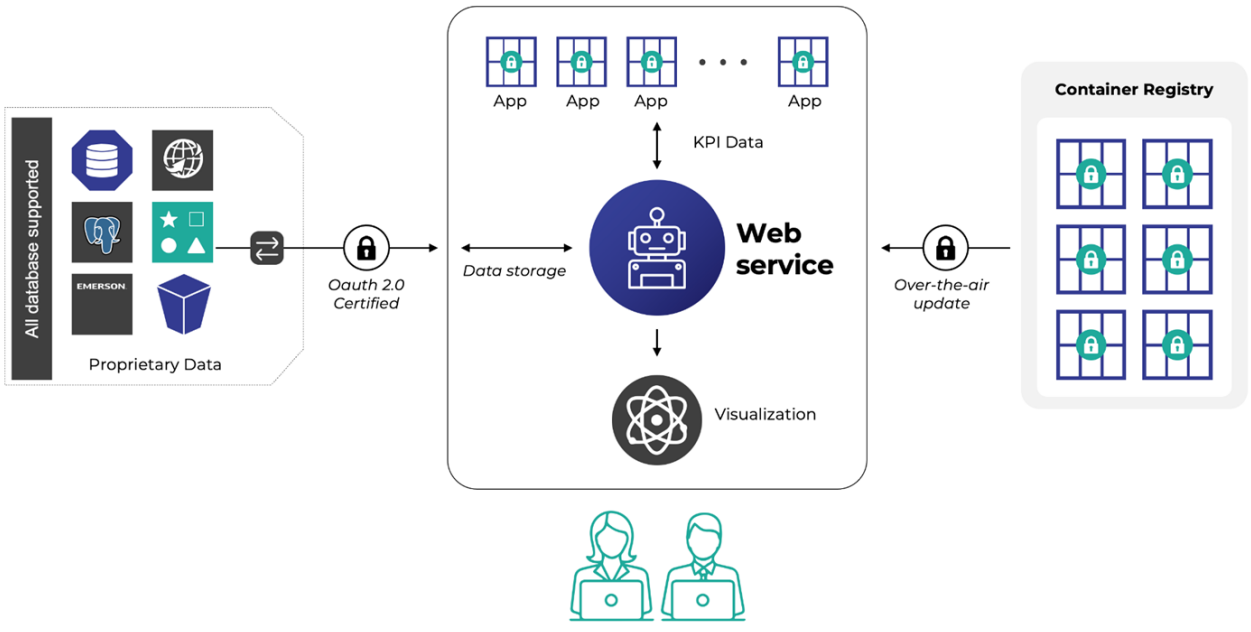
The BlueMarvel Advantage
Industrial Expertise Meets Digital Transformation

The Difference: Our solution has been developed by industrial energy experts, based on the ISO 50001 standard. All BlueMarvel applications are built using the latest modern information and operations technology. Unlike legacy energy management solutions, designed to run at a single industrial site, our solution was conceived for enterprise use cases and is capable of benchmarking energy use across your entire industrial operation if required. Our solutions also offer custom-programmability alongside a suite of existing analytic functions allowing you to implement rules, KPI's and algorithms that fit highly specified requirements.

We can support deployments no matter where you are on your digitization journey. Our solution runs natively in the cloud and has been designed using software containers for easy deployment and set up. We can also manage SAS deployments leveraging our cloud and internal data consolidation infrastructure.

BlueMarvel Application Architecture
EMIS Microservices

- Control hub facilitates KPI calculations, software updates, and data movement between different applications.
- Microservices infrastructure to maximize application uptime and allow for maintenance on separate services.
- Leverages your existing cybersecurity protocols to minimize data leakage risks.
- Application is stateless, guaranteeing your data integrity and provides flexibility on future usage of calculated KPIs.
- Customer managed authorization & authentication so you can control who has access to which data.
- Optional over-the-air updates whenever new versions of the software are available.



> Industrial energy and consumables consumption are not a fixed overhead cost; they are variable operating cost that should be actively managed

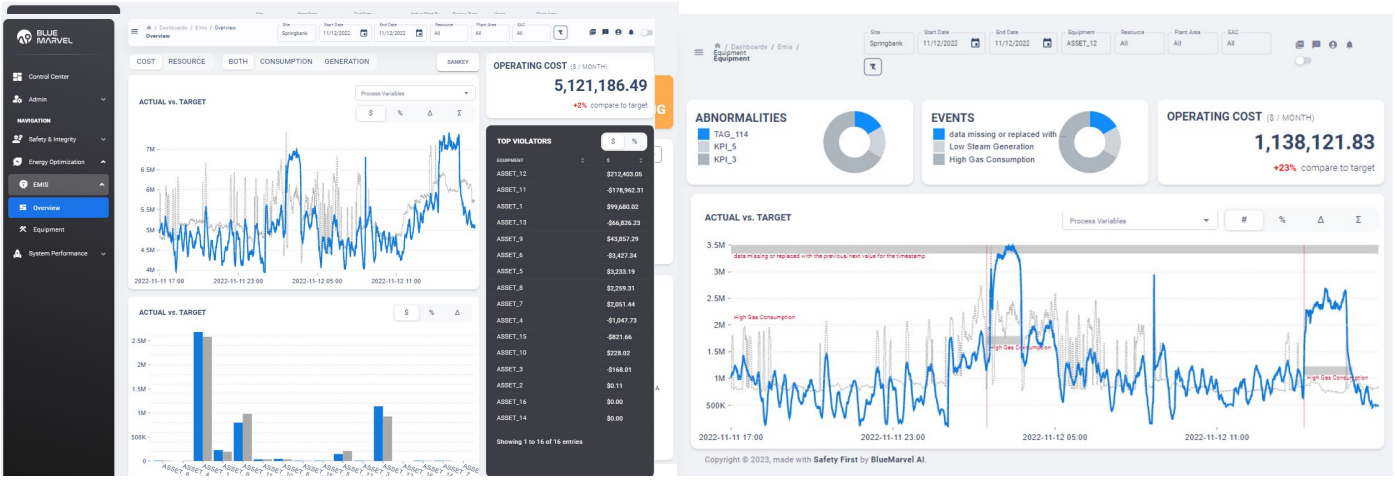
EMIS Benefits

Lower Variable Energy Production Costs & Other Plant Consumables

- ✓ Used in a well-designed energy management program, an EMIS has been proven to reduce energy usage and costs by a minimum of 5%.
- ✓ Supports energy audits and the identification of energy performance improvement opportunities.
- ✓ Supports corporate energy budgeting and contract negotiation.
- ✓ Supports creation of greater energy awareness and related decision making.
- ✓ Enables sustainable energy improvements by measuring, documenting, and reporting on historical and current performance.

EMIS Dashboard

Showcasing Real-Time Energy Usage Actual vs. Target



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