

SOFTWARE WRITE UP

Digital Integrated Energy Management System (EnMS)

Solution Explanation Document

Aligned with Malaysia EECA 2024 & ISO 50001



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Purpose & Scope of Documentation

The objectives of this document are to:

1. **Explain the EnMS Solution Clearly**
Provide a structured and easy-to-understand explanation of Kero Software's Energy Management System (EnMS), including its design, functional modules, and system architecture.
2. **Demonstrate EECA 2024 Coverage**
Illustrate how the EnMS supports compliance with Malaysia's Energy Efficiency and Conservation Act (EECA) 2024, including alignment with EECA Sections 4 to 8.
3. **Clarify System Capabilities and Boundaries**
Define what the system is designed to support, how it operates across the energy management lifecycle, and how responsibilities are managed within the platform.
4. **Support Technical and Management Understanding**
Enable energy managers, technical teams, and management users to understand how the system supports governance, planning, implementation, verification, review, and reporting.
5. **Explain Outputs and Evidence Generation**
Describe the types of outputs, records, and evidence produced by each module to support internal management, audits, and regulatory reporting.
6. **Provide a Reference for Stakeholders**
Serve as a reference document for organizations, consultants, and partners to understand the structure, coverage, and regulatory alignment of the EnMS.
7. **Establish a Common Understanding**
Ensure all stakeholders share a consistent understanding of how the EnMS supports structured, auditable, and continual energy management practices.

Introduction

Turn Compliance into Measurable Performance - Meeting Malaysia's EECA 2024

The **Energy Efficiency and Conservation Act (EECA) 2024** introduces mandatory energy management, reporting, and performance obligations for high-energy-use organizations in Malaysia. For designated installations, compliance is no longer optional, it is a **statutory requirement**.

Kero Software's Energy Management System (EnMS) is designed to help organizations **comply confidently, operate efficiently, and prepare strategically for the future of energy management**.

Rather than treating EECA as a reporting burden, Kero EnMS transforms compliance into a **long-term performance and cost-optimization advantage**.

This Energy Management Software enables organizations to **meet Malaysia's EECA 2024 requirements with confidence**, while transforming energy management into a structured, measurable, and executive-ready process.

Purpose-built to align with **ISO 50001 and Suruhanjaya Tenaga guidelines**, the platform provides a **single source of truth** for energy governance, planning, implementation, verification, and reporting—ensuring organizations stay compliant, audit-ready, and performance-driven always.

Why Organizations Choose This Platform

- **Regulatory-ready by design**
- **Evidence-driven and auditor-friendly**
- **Executive visibility across the full EECA lifecycle**
- **Clear linkage between energy actions, savings, and ROI**
- **Supports continual improvement, not just reporting**

This is not just an energy tracking tool—it is a **compliance assurance and performance management platform**.

Aa

Software Architecture Overview

This section describes the high-level software architecture of Kero Software's Energy Management System (EnMS) and explains how the system is structured to support reliability, security, scalability, and regulatory compliance.

The architecture is designed to support end-to-end energy management processes while ensuring data integrity, traceability, and controlled access across all system functions.

Architectural Design Principles

The EnMS architecture is guided by the following principles:

- **Single Source of Truth**
All energy data, documents, approvals, and records are maintained within a centralized platform to avoid duplication and inconsistencies.
- **Modular and Layered Design**
Functional modules are logically separated while sharing common services, enabling scalability and future extension without system redesign.
- **Security and Access Control by Design**
Role-based access control ensures that users only access functions and data relevant to their responsibilities.
- **Auditability and Traceability**
All actions, changes, and approvals are recorded with time stamps and user identification to support audit and regulatory requirements.
- **Standards and Regulatory Alignment**
The architecture supports alignment with EECA 2024 and ISO 50001 through controlled workflows, documentation, and performance tracking.

High-Level Architecture Layers

Kero EnMS is structured into several logical layers, each with a defined role within the system.

1. Presentation Layer (User Interface)

The presentation layer provides user access to EnMS through a web-based interface.

Key characteristics include:

- Role-based dashboards for management, energy managers, and operational users
- Web forms for data entry, approvals, and reviews
- Visualization of energy performance, trends, and compliance status
- Responsive design to support access across devices

This layer focuses on usability while enforcing access control and workflow rules.

2. Application Layer (Business Logic)

The application layer contains the core business logic of EnMS.

It manages:

- Energy governance workflows
- Energy planning and baseline calculations
- Action plan management and tracking
- Measurement and Verification (M&V) logic
- Management review processes
- Reporting and compliance workflows

This layer ensures that all processes follow defined rules, approvals, and sequencing aligned with EECA requirements.

3. Data Layer (Energy, Operational & Document Data)

The data layer stores and manages all system data in a structured and controlled manner.

This includes:

- Energy consumption and performance data
- Baselines, EnPIs, and targets
- Action plans and implementation records
- Documents, policies, and reports
- Audit logs and approval histories

Data integrity, version control, and historical traceability are enforced at this layer.

4. Integration Layer (Optional / Extensible)

The integration layer enables the EnMS to interface with external systems where required.

Potential integrations include:

- Energy meters and monitoring systems
- Building Management Systems (BMS)
- ERP or financial systems
- External reporting or analytics platforms

This layer supports data exchange while maintaining data validation and control within EnMS.

5. Security and Access Control Layer

Security functions are embedded across all layers of architecture.

Key controls include:

- Role-based access control (RBAC)
- User authentication and authorization
- Segregation of duties
- Secure data storage and access logging

These controls ensure that governance, approvals, and sensitive data are protected.

6. Audit, Logging and Compliance Layer

This layer ensures full traceability and accountability.

It records:

- User actions and system changes
- Approval and workflow history
- Data modifications and versioning
- Compliance-related events

These logs support internal assurance, audits, and regulatory inspections.

7. System Deployment Model

Kero EnMS is deployed as a centralized platform, typically in a secure cloud environment, with controlled access for authorized users.

The deployment model supports:

- Multi-site organizations
- Centralized data management
- Secure remote access
- High availability and scalability

Deployment options can be aligned with organizational IT and security policies.

Understanding EECA Obligations & Penalties

What EECA Requires

Designated organizations are required to:

- Establish formal **energy governance and leadership commitment**
- Appointing a **Registered Energy Manager (REM)**
- Conduct structured **energy planning and baseline assessments**
- Implement **energy efficiency measures**
- Perform **Measurement & Verification (M&V)**
- Submit **annual energy reports** to Suruhanjaya Tenaga
- Demonstrate **continual improvement**

These requirements closely align with **ISO 50001**, making EECA compliance a steppingstone toward international certification.

EECA Penalties & Business Risk

Failure to comply may result in:

- **Fines up to RM50,000 per offence**
- **Higher penalties (up to RM100,000)** for serious or repeated non-compliance
- **Reputational damage**
- Increased regulatory scrutiny
- Disruption of operations during audits or enforcement actions

The real risk is not just fine but unmanaged energy costs, lost savings, and poor audit outcomes.

Who Benefits Most from This Software

Organizations Designated Under EECA

High-energy users that fall under EECA are required to meet compliance timelines and demonstrate control of energy performance. This platform helps organizations stay audit-ready at every step.

Groups Preparing for ISO 50001 Certification

Standard-aligned energy management improves efficiency **and positions companies for international certification**, enhancing competitiveness and stakeholder confidence.

Manufacturing & Industrial Facilities

Complex energy profiles and significant utility costs mean energy efficiency becomes a **strategic lever for cost reduction**, operational resilience, and ESG performance.

Why This is More Than Compliance

This solution empowers organizations to:

- Track energy performance and trends against targets
- Link energy improvements to financial outcomes
- Automate reporting to regulators and stakeholders
- Support strategic decision-making with real-time insights

Whether the goal is to satisfy regulators, prepare for certification, or cut operational costs — this software turns compliance requirements into **measurable business value**.

Appendix A - EECA 2024 Compliance Mapping Table

| EECA Section | EECA Requirement | Corresponding EnMS Module(s) | System Coverage Explanation |
|--------------|--|--|---|
| Section 4 | <i>Governance & Leadership Commitment</i> | <i>Governance & Leadership Commitment</i> | Supports formal energy policy approval, organizational and operational boundary definition, REM appointment, energy committee structure, roles and responsibilities, and documented management commitment with full approval traceability |
| Section 5 | <i>Energy Planning</i> | <i>Energy Planning, Baselines & Targets</i> | Enables structured energy reviews, SEU identification, baseline establishment, EnPI definition, and target setting with documented methodology and version control |
| Section 6 | <i>Action Plans & Energy Efficiency Measures</i> | <i>Action Plans & Energy Saving Measures</i> | Provides a structured framework for defining energy efficiency actions, assigning ownership, setting timelines, documenting financial justification, and tracking implementation progress |
| Section 7 | <i>Implementation & Measurement & Verification</i> | <i>Implementation & Measurement & Verification</i> | Supports performance monitoring, baseline comparison, M&V documentation, and verification of energy savings to ensure reported improvements are measurable and credible |
| Section 8 | <i>Performance Monitoring & Management Review</i> | <i>Performance Monitoring & Management Review</i> | Enables periodic energy performance reviews, management review records, corrective actions, and documentation of continual improvement |
| All Sections | <i>Evidence, Control & Traceability</i> | <i>Cross-Cutting Support Modules</i> | Provides document management, workflow approvals, role-based access control, audit logs, alerts, and dashboards to ensure compliance evidence is controlled, traceable, and audit-ready across all EECA section |

Interpretation of the Mapping

This mapping demonstrates that Kero EnMS is not designed as a single-purpose reporting tool, but as a comprehensive management system aligned with the structure and intent of EECA 2024.

Each EECA section is supported by:

- Dedicated functional modules
- Defined workflows and approvals
- Documented outputs and evidence

The Modules - End-to-End EECA Coverage, One Unified Experience

1. Governance & Leadership Commitment

Demonstrate compliance from the top

The platform formalizes management commitment by guiding organizations through energy policy endorsement, boundary definition, committee appointments, and resource allocation—exactly as required under **EECA Section 4**.

Business impact

- Clear accountability and governance structure
- Management endorsement captured as formal evidence
- Immediate visibility of compliance readiness

Software Delivery Scope

a. Purpose

Establish formal leadership commitment, governance structure, and accountability for EnMS implementation as required under **EECA Section 4 – Establish Commitment**.

b. Key System Components / Screens

- Energy Management Policy Editor
- Top Management Endorsement Screen
- EnMS Boundary Endorsement Screen
- Management Representative Appointment
- Resource Allocation Register
- Governance Status Panel

c. Dashboard Highlights

- Policy approval status (Draft / Approved / Locked)
- Committee establishment completeness
- Management Endorsement Checklist
- Compliance Readiness Indicator (**Section 4**)

2. Energy Planning, Baselines & Targets

Know where you stand—and where to improve

Energy performance is assessed systematically to identify **Significant Energy Uses (SEUs)**, establish baselines, and define meaningful performance indicators and targets, aligned with **EECA Section 5**.

Business impact

- Transparent understanding of energy drivers
- Data-backed baselines and benchmarks
- Targets that are realistic, defensible, and auditable

Software Delivery Scope

Purpose

Assess current energy performance, identify Significant Energy Uses (SEU), and establish baselines and targets in accordance with **EECA Section 5**.

Key System Components / Screens

- EnMS Self-Evaluation Matrix ([Appendix B**EECR 2024](#))
- Energy Data Collection Setup
- SEU Identification Screen
- EEI / EnPI Configuration
- Baseline Establishment Screen
- Benchmarking Setup

Dashboard Highlights

- EnMS maturity score (Level 0–4)
- SEU ranking by consumption
- Baseline vs historical trend
- Target readiness indicator

3. Action Plans & Energy Saving Measures (ESM)

From intent to execution—with financial clarity

Energy objectives are translated into structured action plans and Energy Saving Measures (ESMs), complete with timelines, ownership, and financial justification, supporting **EECA Section 6**.

Business impact

- Clear prioritisation of high-impact initiatives
- Visibility of CAPEX, OPEX, savings, and payback
- Strong justification for management and board approval

Software Delivery Scope

Purpose

Translate targets into structured Energy Saving Measures (ESM) with financial justification, timelines, and ownership, as required under **EECA Section 6**.

Key System Components / Screens

- Action Plan Builder
- ESM Registry
- Financial Analysis Screen (SPP, ROI, NPV, IRR)
- Timeline & Milestone Tracker
- Resource & Ownership Assignment

Dashboard Highlights

- Number of approved ESMs
- Estimated vs committed savings
- CAPEX / OPEX summary
- ESM implementation progress (%)

4. Implementation & Measurement & Verification

Prove that savings are real

Operational controls, procedures, and measurement practices ensure that implemented actions deliver verified results, in line with **EECA Section 7** and recognized M&V principles.

Business impact

- Confidence that reported savings are credible
- Verified performance, not assumptions
- Reduced risk of disputes during audits or reviews

Software Delivery Scope

Purpose

Execute approved action plans, enforce operational control, and verify savings using Measurement & Verification (M&V) per **EECA Section 7**.

Key System Components / Screens

- Work Procedure Management ([Appendix D** EECR 2024](#))
- Log Sheet Digitalization ([Appendix E** EECR 2024](#))
- Maintenance & Calibration Tracking
- Non-Conformance & Corrective Action
- M&V Plan & Verification Screen

Dashboard Highlights

- Real-time energy performance
- Verified vs estimated savings
- Non-conformance status
- M&V completion indicator

5. Performance & Management Review

Turning data into decisions

Energy performance is reviewed holistically, enabling top management to assess effectiveness, address gaps, and drive continual improvement as required under **EECA Section 8**.

Business impact

- Clear performance scorecards for leadership
- Structured management review records
- Evidence of continual improvement

Software Delivery Scope

Purpose

Evaluate EnMS effectiveness, ensure compliance, and drive continual improvement as required under **EECA Section 8**.

Key System Components / Screens

- EnMS Performance Review Screen
- Compliance Evaluation Checklist
- Management Review Agenda & Minutes
- Decision & Improvement Tracker

Dashboard Highlights

- Baseline vs actual performance
- Target achievement scorecard
- Compliance status (**EECA Section 8**)
- Management decision summary

6. Reporting & Regulatory Submission

Submission-ready at the click of a button

All records, results, and approvals are consolidated into **standardized, regulator-ready reports**, supporting annual EECA submissions and internal reporting.

Business impact

- Reduced reporting effort and manual compilation
- Fewer compliance risks and omissions
- Faster response to regulator or auditor requests

Software Delivery Scope

Purpose

Generate standardized, regulator-ready reports for internal management and Energy Commission submission.

Key System Components / Screens

- EECA Annual Energy Report Generator
- Management Summary Report
- Performance & ESG Reports
- Export & Submission Console

Dashboard Highlights

- EECA submission readiness (%)
- Missing data / documents alerts
- Report approval status

7. Built for Audits. Trusted by Regulators.

Centralized Documentation & Traceability

All policies, procedures, records, and evidence are maintained in a controlled environment with version history and approval status - ensuring **audit readiness at all times**.

Approval & Accountability

Every key decision follows a structured approval process with clear roles, digital sign-off, and traceability - creating confidence for regulators, auditors, and management.

Compliance Visibility

A clear compliance tracker highlights status across **EECA Sections 4–8**, helping organizations identify gaps **before** they become findings.

Support Modules (Foundation Layer Across All EECA Sections)

These cross-cutting modules underpin **every EnMS activity**, ensuring control, traceability, and audit confidence.

a. Document Management System (DMS) with OCR

- Centralized repository for policies, procedures, reports, and evidence
- OCR-enabled document indexing for fast retrieval during audits
- Version control, approval status, and retention tracking

b. User Management & Access Control

- Role-based access aligned to governance and committee structures
- Secure segregation of duties for management, REM, auditors, and users

c. Alerts & Notifications

- Automated reminders for approvals, reviews, submissions, and deadlines
- Proactive compliance alerts to prevent missed obligations

d. Workflow Control & Digital Approval

- Structured approval flows with clear accountability
- Digital sign-off for policies, baselines, action plans, and reports

e. Audit Log & Traceability

- Immutable record of who did what, when, and why
- Full traceability for regulators, auditors, and internal assurance

f. EnMS Real-Time Dashboard

- Live visibility of compliance status, performance trends, and risks
- Executive-level overview across EECA Sections 4–8

Outcome:

- Always audit-ready
- Reduced compliance and governance risk
- Strong regulator and management confidence

Why Kero Software EnMS

A Single Platform Across the Entire EECA Lifecycle

Kero EnMS provides **end-to-end coverage** across EECA Sections 4 to 8, ensuring nothing is missed, delayed, or duplicated.

Key benefits

- Always audit-ready
- Regulator-aligned evidence structure
- Clear accountability and approval trails
- Executive-level visibility of energy performance

Business Benefits by Design

1. Reduced Compliance Risk

- Structured alignment with EECA and ISO 50001
- Clear compliance visibility across all sections
- Early identification of gaps before audits

2. Lower Operating & Reporting Costs

- Eliminate fragmented spreadsheets and disconnected tools
- Reduces duplicated data entry and manual reporting
- Minimises reliance on repeated ad-hoc consultancy exercises

3. Measurable Financial Impact

- Energy initiatives linked directly to cost savings
- Verified performance, not estimated assumptions
- Clear ROI and payback visibility for management decisions

Designed to Expand Beyond EnMS - One Platform. Multiple Energy Capabilities.

Kero EnMS is built as a **foundation layer** that can seamlessly expand into additional energy and sustainability modules—without replacing systems or recreating data.

Expandable to:

- **EMP (Energy Management Plan)**
- **M&V (Measurement & Verification) Modules**
- **Energy Efficiency (EE) Programs**
- **Renewable Energy (RE) Monitoring**
- **Battery Energy Storage Systems (BES)**
- **Carbon & ESG Performance Tracking**

This modular approach ensures organizations **invest once and grow over time**, instead of deploying multiple disconnected platforms.

Avoiding Redundant Cost & System Overlap

Traditional approaches often involve:

- Separate tools for compliance, audits, M&V, and reporting
- Repeated data collection for each program
- High long-term software and consultancy costs

Kero Software eliminates this inefficiency by:

- Centralizing energy governance, performance, and reporting
- Reusing validated data across multiple programs
- Supporting future regulatory and business needs without re-implementation

Result:

- Lower total cost of ownership
- Faster rollout of new initiatives
- Consistent, trusted data across the organization

Digital Twin–Ready Energy Intelligence

Kero EnMS is designed to support **digital twin interfaces**, enabling organizations to:

- Visualize facilities, assets, and energy flows
- Compare actual performance against baselines and targets
- Simulate future efficiency improvements and investments

This prepares organizations for:

- Smart facility management
- Advanced analytics and AI-driven optimization
- Integration with future smart grid and NETR initiatives
- Continuous visibility of compliance status

This ensures that EECA compliance is managed as an ongoing process, rather than a periodic or reactive activity.

REGULATIONS CHECKLIST

Appendix B - EnMS INPUT CHECKLIST – MANUFACTURING

(ST EECA 2024 & ISO 50001 Aligned)

| No. | EnMS Input Item | ST Audit Evidence Required | ISO 50001 Clause | Manufacturing Focus / Notes |
|-----|--|---|------------------|--|
| 1 | Energy Policy | Signed & dated policy by Top Management | 5.2 | Include commitment to production efficiency & energy intensity reduction |
| 2 | Organizational Structure | Organization chart with EnMS roles | 5.3 | Show production, utilities, maintenance departments |
| 3 | Management Representative (MR) Appointment | Formal appointment letter | 5.3 | MR must have authority over plant operations |
| 4 | Registered Energy Manager (REM) | Valid ST REM certificate + appointment letter | 7.2 | REM must be registered with Suruhanjaya Tenaga |
| 5 | EnMS Committee | TOR, member list, meeting minutes | 5.3 | Include production, engineering, QA, finance |
| 6 | EnMS Boundary & Scope | Boundary statement & plant layout | 4.3 | Define production lines, utilities, warehouses |
| 7 | Energy Data (12–36 months) | Utility bills, sub-meter data | 6.3 | Electricity, gas, diesel, steam |
| 8 | Energy Review | Energy review report | 6.3 | Identify SEUs: compressors, boilers, furnaces |
| 9 | Significant Energy Uses (SEU) | SEU register | 6.3 | Rank by kWh/ton or kWh/unit produced |
| 10 | Energy Baseline (EnB) | Baseline calculation records | 6.4 | Normalize vs production volume |
| 11 | Energy Performance Indicators (EnPI) | EnPI list & tracking logs | 6.4 | e.g. kWh/ton, kWh/unit |
| 12 | Legal & Other Requirements | Legal register & compliance check | 6.1.3 | EECA 2024 mandatory reporting |
| 13 | Objectives & Targets | Approved objectives & action plans | 6.2 | Linked to production efficiency |
| 14 | Monitoring & Measurement | Meter list & calibration records | 9.1 | Sub-metering for major equipment |
| 15 | Management Review | Review minutes & decisions | 9.3 | Include energy cost & performance |

Appendix C - EnMS INPUT CHECKLIST – COMMERCIAL BUILDING

(ST EECA 2024 & ISO 50001 Aligned)

| No. | EnMS Input Item | ST Audit Evidence Required | ISO 50001 Clause | Commercial Building Focus / Notes |
|-----|--------------------------------------|------------------------------|------------------|--|
| 1 | Energy Policy | Signed & communicated policy | 5.2 | Emphasize tenant & building efficiency |
| 2 | Organizational Structure | Org chart (FM, BMS, admin) | 5.3 | Facilities Management (FM) key role |
| 3 | Management Representative (MR) | Appointment letter | 5.3 | MR often Building Manager |
| 4 | Registered Energy Manager (REM) | ST REM certificate | 7.2 | Mandatory for designated installations |
| 5 | EnMS Committee | Committee TOR & minutes | 5.3 | Include FM, BMS, finance, security |
| 6 | EnMS Boundary & Scope | Boundary statement | 4.3 | Define floors, common areas, car parks |
| 7 | Energy Data (12–36 months) | Utility bills & meter logs | 6.3 | Electricity dominant |
| 8 | Energy Review | Energy review report | 6.3 | Focus on HVAC, lighting, lifts |
| 9 | Significant Energy Uses (SEU) | SEU register | 6.3 | AHU, chiller plant, lighting |
| 10 | Energy Baseline (EnB) | EnB calculations | 6.4 | Normalize vs occupancy / weather |
| 11 | Energy Performance Indicators (EnPI) | EnPI records | 6.4 | kWh/m ² , kWh/occupant |
| 12 | Legal & Other Requirements | Legal register | 6.1.3 | EECA 2024 + local authority |
| 13 | Objectives & Targets | Energy action plan | 6.2 | Chiller efficiency, LED retrofit |
| 14 | Monitoring & Measurement | Meter & BMS data | 9.1 | BMS trend logs acceptable |
| 15 | Management Review | Management review minutes | 9.3 | Energy cost & tenant impact |

Summary

This document has outlined the structure, functionality, and architectural design of Kero Software's Energy Management System (EnMS), explaining how the solution supports structured energy management and compliance with Malaysia's Energy Efficiency and Conservation Act (EECA) 2024, while aligning with ISO 50001 principles.

The EnMS is designed as an end-to-end management system covering energy governance, planning, implementation, measurement and verification, performance review, and regulatory reporting. Through its modular design, the system provides continuous coverage across EECA Sections 4 to 8, ensuring that energy management activities are managed in a consistent, traceable, and auditable manner.

From a system perspective, the EnMS integrates functional modules, cross-cutting support capabilities, and a layered software architecture to maintain data integrity, role-based access control, approval workflows, and comprehensive audit trails. This enables organizations to manage energy performance systematically while maintaining readiness for audits, management reviews, and regulatory submissions.

The platform is designed to be practical and accessible, with an implementation approach that balances functionality with cost efficiency. Its modular structure allows organizations to adopt only the modules required for their current regulatory and operational needs, avoiding unnecessary system complexity and cost. As organizational requirements evolve, additional modules and capabilities can be introduced without system replacement or data reconfiguration.

In addition, the EnMS is customizable to customer-specific requirements, including organizational structure, operational boundaries, reporting formats, and approval workflows. This flexibility ensures that the system can be aligned to different industry sectors, facility types, and internal governance practices while maintaining regulatory alignment.

Overall, Kero Software's EnMS provides a structured, adaptable, and cost-conscious solution for organizations seeking to manage energy performance effectively under EECA 2024. By combining regulatory alignment, system flexibility, and scalable architecture, the platform supports both immediate compliance needs and longer-term energy management and sustainability objectives.