

# FUKI INVESTMENT AND TECHNOLOGY APPLICATION COMPANY LIMITED



ENERGY MANAGEMENT SYSTEM

# FUKI



# INTRODUCTION

Do you know how much energy your system consumes at each production stage, or whether your office is using energy efficiently? If your answer is "YES," you are already ahead of many other businesses.

Energy is often seen as a fixed cost; however, effective energy management can help businesses reduce expenses, boost profits, enhance productivity, and contribute to environmental protection.

## HAVE YOU HEARD ABOUT ENERGY MANAGEMENT SYSTEM

Energy Management System (EMS) is an integrated system that includes processes, technologies, and tools developed to monitor, control, and optimize energy usage within an organization or system.

## WHY WE NEED EMS

EMS helps businesses monitor and optimize energy usage, reduce operational costs, support system management and quickly handle incidents. This system also reduces environmental impact and aiming for sustainable development.

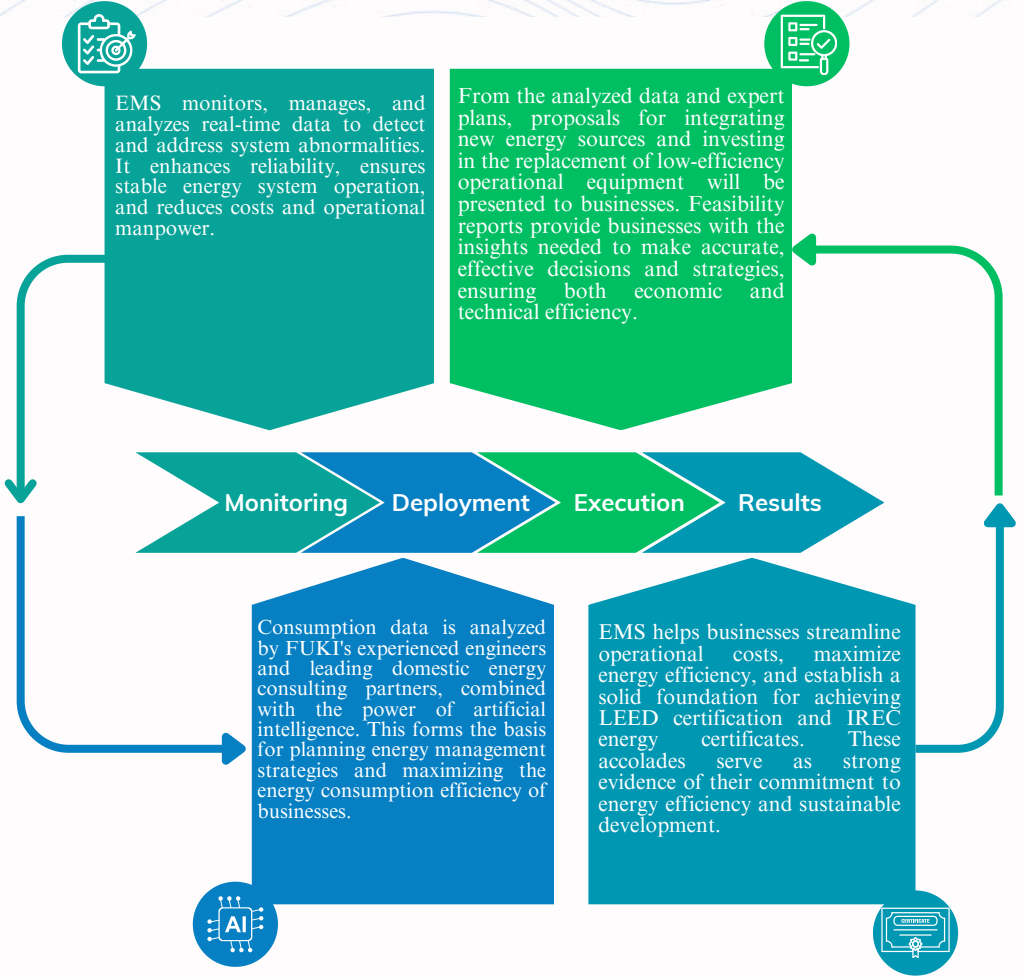
### Do you know ?

Basic energy-saving opportunities that do not incur costs can help businesses reduce energy consumption and costs by up to 30% in many cases



# PROCEDURE OF SYSTEM DEPLOYMENT

The EMS implementation process at FUKI begins with system data measurement, followed by analysis, planning of energy-saving solutions and evaluating effectiveness during operation.

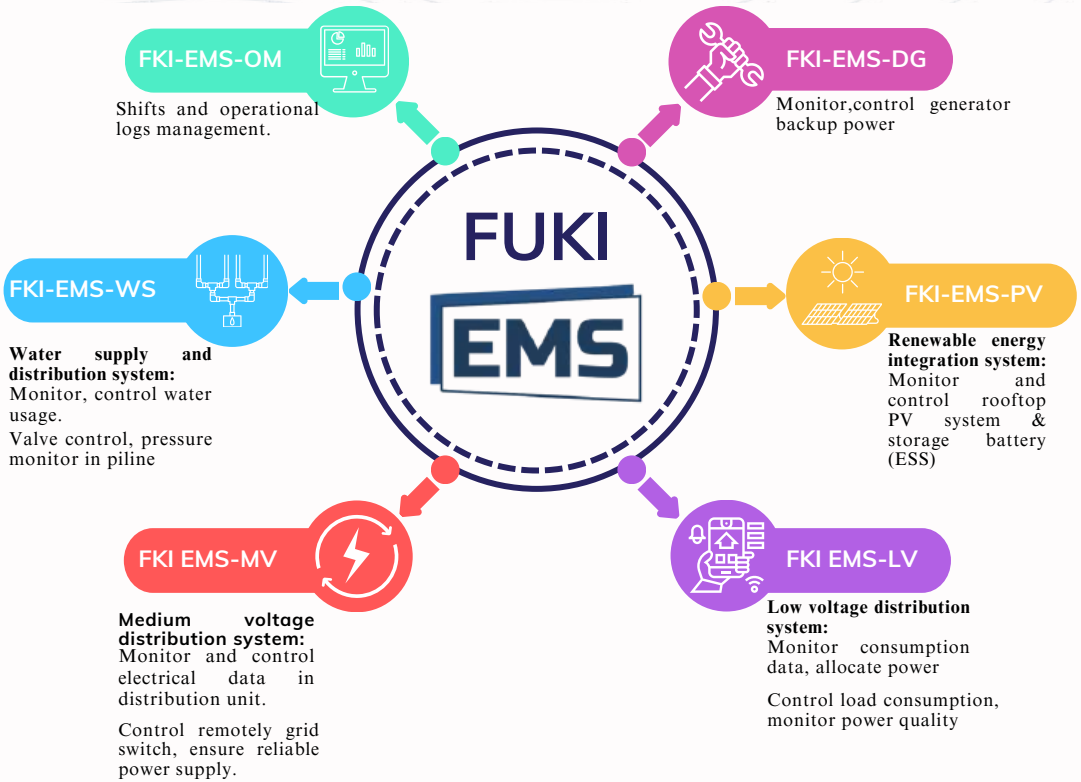


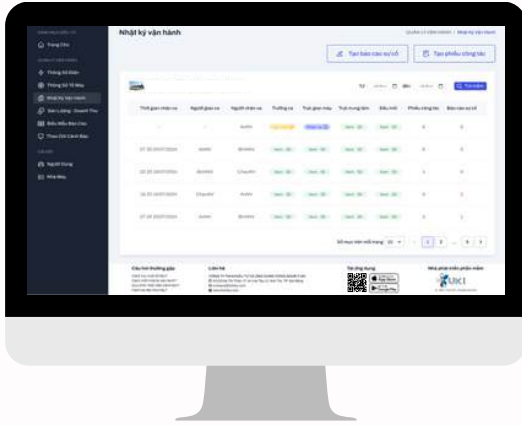
FUKI, in collaboration with energy consulting partners, will conduct periodic inspections and evaluations of project efficiency. Customers will consistently receive expert insights and analyses, enabling them to achieve their goals in saving-energy.

# ENERGY MANAGEMENT SYSTEM

## FUKI EMS

FUKI offers a comprehensive energy management system solution, tailored to fully meet the specific requirements of each business. Each system is not only capable of operating independently but can also be flexibly combined in various configurations, customized to the operational needs and objectives of the customer.





## FKI-EMS-OM



### Shift Management, Operation Log Management

#### Features:

- Track and allocate work shifts
- Record shift information
- Optimize scheduling
- Log and monitor activities
- Analyze operational data

#### Benefits:

- Improve and enhance communication efficiency among NVVH staff
- Reduce system O&M costs
- Digitize data, increasing storage capacity

## FKI-EMS-DG



### Monitor, control generator system and backup fuel

#### Features:

- Monitor operational status, power output, temperature and fuel consumption
- Control generator startup in case of grid failure.
- Manage backup fuel levels
- Analyze and optimize operations

#### Benefits:

- Ensure continuous power supply
- Optimize energy usage
- Operational efficiency



## FKI-EMS-PV

System integrated with renewable energy

### Features:

- Status of rooftop solar power system operation
- Management of storage battery system
- Automatic scheduling and control of integrated operation modes between the rooftop solar power system and storage batteries

### Benefits:

- Optimize energy output and efficiency
- Reduce emissions and protect the environment
- Increase the use of green energy in businesses, supporting accurate investment and energy management decisions



## FKI-EMS-WS

Water supply and distribution system

### Features:

- Check water bills with water supply unit
- Monitor the status and performance of pumps, tanks, and distribution pipelines
- Track water flow and pressure
- Detect leaks in system

### Benefits:

- **Optimize water resource**
- Saving operating and maintenance cost
- Enhance service qualities



## FKI-EMS-LV

Low voltages distribution, load by area.

### Features:

- Monitor the low-voltage power distribution system: Power cabinet, high power of loads...
- Track temperature at busbars, circuit breaker terminals
- Analyze consumption data by area, group to identify losses
- Detective incidents, shorten repair and troubleshooting time.

### Benefits:

- Optimize the power system, reduce operating costs.
- Ensure a stable and reliable power supply
- Provide accurate reports and analytical data

## FKI-EMS-MV

Medium voltage distribution from distribution unit

### Features:

- Comprehensive monitoring and remote control.
- Checking electric bills
- Analyze, records incidents, guidance and troubleshooting

### Benefits:

- Optimize operation efficiency
- Improve reliability of system
- Provide reports and analytical data





[www.fukiita.com](http://www.fukiita.com)



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