



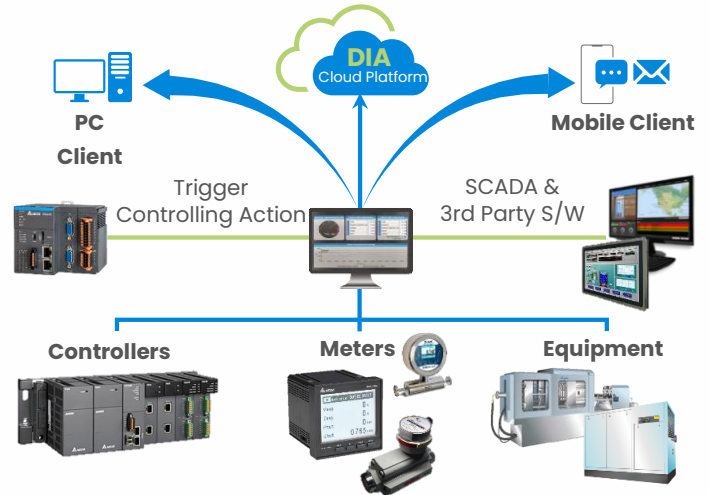
# Energy Management Solution

## Control and Monitoring



### System Overview

The system efficiently collects data on energy usage and operations from on-site sources, categorizing energy consumption by subcomponents and areas. It offers real-time monitoring, detailed data analysis, timely reporting, precise control, maintenance, production management, and predictive insights. Additionally, it enables in-depth analysis of demand trends, energy usage structures, cost assessment, energy performance indicators, and carbon emissions. These analyses inform actions such as demand control, optimization of related factors, and energy-saving measures, enhancing overall energy management efficiency and sustainability.

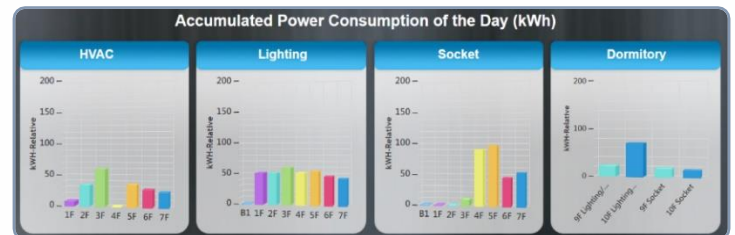
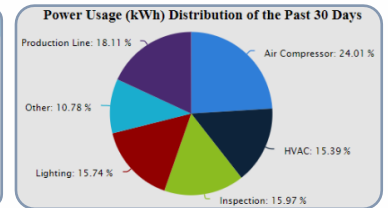


### Energy Visualization

**Basic Analysis** - real-time data, energy proportion, ranking.

**Long-term tracking** - multi-tag (area) comparison, comparison by period, trend trace.

**Integrated Information** - user-defined dashboard for UI needs, correlation analysis between energy usage & specific factors, & gap identification for energy-saving.



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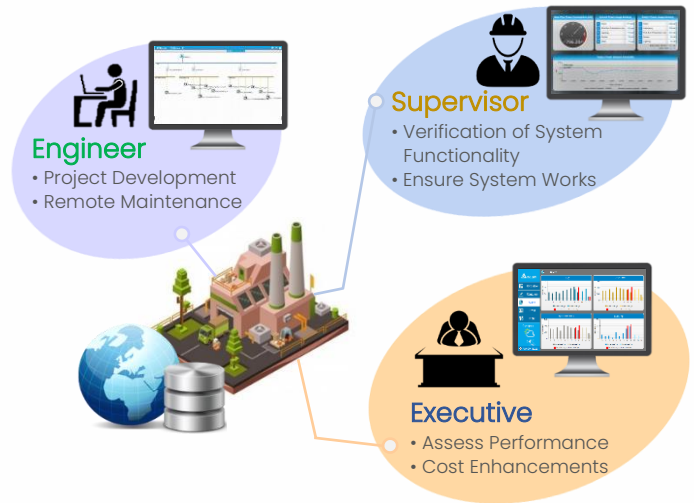
## Operation & Authority

### Web-Based System

- Functions as a web server.
- Requires no remote user installation.
- Provides access at any time and from any location.
- Accommodates an unlimited number of clients.

### User Management

- Facilitates user management through group assignments.
- Grants specific permissions and functions to each user group.
- Authority is structured in accordance with a hierarchical framework.



## Benefits

### Short Term

#### Energy Efficiency

Immediate gains in energy efficiency by identifying and rectifying wasteful energy practices and equipment usage.

#### Production Optimization

Real-time data allows for better production scheduling, reducing downtime, and improving overall productivity.

### Mid-Term Benefits

#### Energy Optimization

Continuous monitoring and analysis lead to ongoing energy optimization, fine-tuning processes, and reducing energy waste.

#### Life Cycle Monitoring

Tracking energy consumption over the lifecycle of equipment and machinery, facilitating timely maintenance and replacement decisions.

#### Environmental Compliance

Better control over energy usage to meet environmental regulations and reduce carbon emissions.

### Long-Term Benefits

#### Cost Optimization

Sustained reduction in energy costs, leading to improved cost competitiveness.

#### Energy Savings

Cumulative energy savings over time contribute to significant cost reductions and improved sustainability.

#### Predictive Maintenance

Early detection of equipment issues through data analysis, reducing maintenance costs and downtime.

#### Data-Driven Decision-Making

Demonstrating commitment to sustainability and efficiency, potentially attracting environmentally-conscious customers and investors.

#### Risk Mitigation

Reduced exposure to energy price volatility and supply chain disruptions by proactively managing energy usage.

#### Continuous Improvement

A foundation for ongoing improvement initiatives, driving further efficiency gains.



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