RDL Technologies Pvt. Ltd.

INSIGHTSX ENERGY MANAGEMENT SYSTEM (EMS)

Monitor . Optimize . Achieve Net-Zero

RDL's Energy Management System gives industrial plants and smart buildings a live, site-wide view of energy use, cost and equipment health - catching waste and failures long before they show up on the bill or the shop floor. The EMS Net-Zero module adds renewables, smart storage and carbon insight to the same dashboard, for facilities ready to go further.



RDL EMS - KEY BENEFITS

- **Real-time traceability -** end-to-end visibility of consumption, from the incoming feeder down to a single machine.
- **Centralized monitoring** with automatic pre-warning alarms across every meter and site.
- **Management KPI views** to set clear utility goals and track them by site or business unit.
- **Less routine waste -** cut avoidable energy cost t hat would otherwise go unnoticed.
- **Proactive alerts** flag failures and disturbances before they turn into downtime.

8-10%

Typical improvement in energy efficiency after deploying RDL EMS across a facility.

Platform

How the EMS Platform Works

EMS runs as a cloud or on-premise platform. It ingests data from every connected meter and sensor, and turns raw readings into reports, KPI views and instant alerts — delivered straight to the people who need to act, by dashboard, email or SMS.

01 / SENSE

Meter the plant

Meters and sensors capture energy, load and power-factor data across every circuit.

02 / TRANSMIT

Stream the data

Data loggers and gateways push readings to the cloud or an on-premise server.

03 / ANALYZE

Benchmark & detect

The EMS engine compares demand against actual use and flags anomalies early.

04 / ACT

Alert & resolve

Dashboards and instant alerts guide the team to fix issues before they cost money.

Monitoring & Visibility

- Energy consumption overview dashboard
- Load monitoring by machine and circuit
- Reports on load, leakage, energy & power factor
- Meter status, category, customer & location mapping
- Peak hours and demand tracking

Management & Control

- Condition detection — underloaded, overloaded, down
- Generator run-hours & fuel consumption
- Billing slab entry, opening & closing balance
- Chiller plant & water meter monitoring modules
- Super-admin single sign-on across multiple locations



EMS dashboards are readable at a glance — on the shop floor or from a laptop.

Analytics

See Problems Before They Cost You

Energy parameters are watched continuously for the early signatures of equipment failure — so maintenance happens on a planned schedule, not during an unplanned shutdown.

Advanced power analytics for root-cause analysis, not just alarms.

Anomaly alerts the moment a reading drifts outside its normal band.

Machine utilization & efficiency tracked against target continuously.

Demand vs. actual consumption compared to catch billing and load mismatches early.



Manufacturing & process plants

Pharma & cold storage

Smart & commercial buildings

Textile & discrete manufacturing

Automotive & component plants

Case Study

Ready to See It Running in Your Facility?

Scan the code to read how manufacturers are using RDL EMS to cut avoidable energy cost and catch failures early — then book a walkthrough on your own meters and machines.

// SCAN TO READ

Case study: real-world results from RDL EMS deployments across industry and smart buildings.

Why teams choose RDL EMS

- 8–10% typical efficiency gain, visible within the first billing cycles.
- Proactive alerts catch faults before they become downtime.
- Cloud or on-premise deployment, fits your IT policy.
- Backed by a partner & reseller network across India and the UAE.

RDL Technologies Pvt. Ltd.

LOCATIONS

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rdltech.in/energy-management-system

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