RDL Technologies Pvt. Ltd.

Bengaluru | Mangaluru | Manipal

INDUSTRIAL IOT · CASE STUDY

Utility Monitoring System.

Real-time visibility and control over energy, water, gas and compressed-air consumption — helping manufacturing and process industries cut wastage, reduce operating costs, and run measurably more efficient plants.



Connected Intelligence for Industry 4.0 — enterprise IoT products & solutions integrating IT and OT across the plant floor.

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The Challenge

- **No centralized monitoring** across multiple utility sources.
- **Manual data collection** leading to inaccuracies and human error.
- **No real-time insight** into energy and utility usage.
- **Hidden wastage** of water, gas and compressed air.
- **Delayed response** to failures or abnormal consumption.
- **Difficulty optimizing** overall operational efficiency.

Traditionally, utility monitoring relied on manual readings or isolated systems — resulting in limited visibility, delayed detection of inefficiencies and higher operational cost.

4	**Utilities Unified on One Platform**
24/7	**Continuous Live Monitoring**
100%	**Automated Data Collection**

Key Functionalities

Live Monitoring
Continuous tracking of utility usage across the facility.

Data Analytics
Identifies trends, peaks and abnormal consumption patterns.

Waste Detection
Rapid identification of leaks and process inefficiencies.

Alert System
Instant notifications for deviations and equipment faults.

System Architecture

IoT Sensors & Meters → **Data Acquisition (DAQ)** → **Cloud / On-Prem Analytics** → **Dashboards & Reports**

Reporting

Audit-Ready Reporting
Detailed reports for decision-making, audits and sustainability compliance across every monitored utility.

Implementation Approach

1. **Assess existing utility infrastructure.**
2. **Deploy sensors & meters at critical points.**
3. **Integrate with centralized monitoring platform.**
4. **Configure dashboards & KPIs.**
5. **Train teams & commission the system.**

Results & Impact

Operational Improvement

Real-time visibility & faster identification of issues and inefficiencies across all utilities.

Cost Optimization

Significant reduction in energy & utility costs, with ROI achieved within weeks of deployment.

Efficiency Gains

Increased equipment reliability, optimized resource utilization and better sustainability.

Business Benefits

Enhanced operational control, reduced downtime and better compliance with sustainability standards.

Why RDL Technologies

- **Proven Industry 4.0 Deployments**
- **End-to-End IoT Hardware & Software**
- **Dedicated Technical Support**

> *"Digital transformation in utility management drives measurable business outcomes. By leveraging real-time monitoring and analytics, industries can significantly reduce costs, improve efficiency, and move toward sustainable operations."*
>
> — RDL Technologies, Conclusion

- **Reduced Utility Wastage**
- **Faster Fault Detection**
- **Sustainable Operations**

CASE STUDY

Scan for Full Story

Read the complete implementation & results in detail.