



ZETARHO_{Zetta}

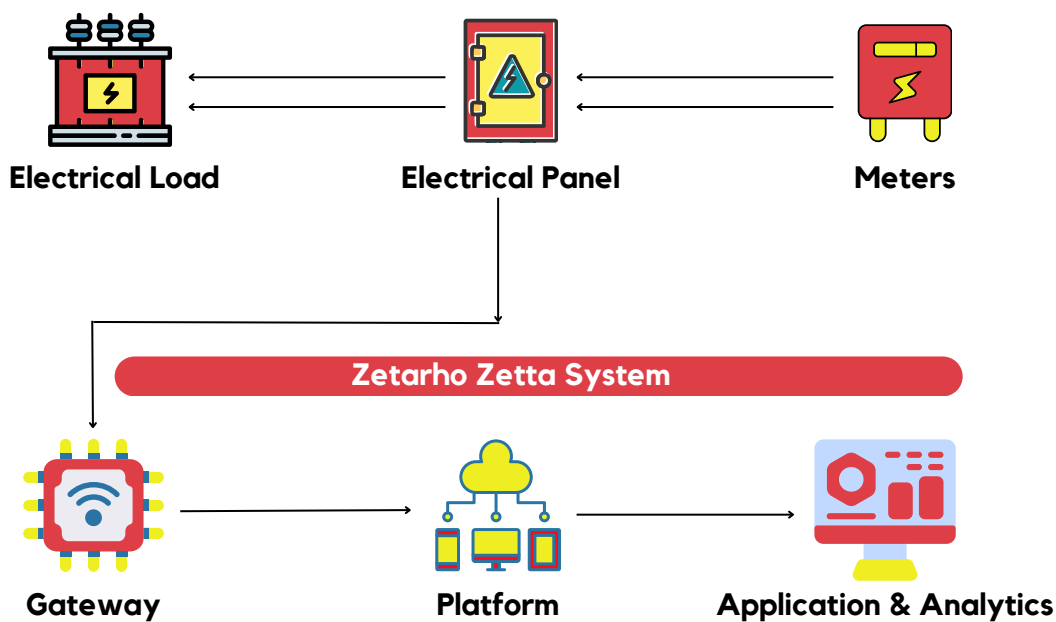
CLOUD BASED ENERGY MANAGEMENT SYSTEM

Zetarho smart energy management system is designed to monitor energy consumption, increase reliability, can predict electrical system failure, improve the utilization of the system and optimize energy usage to reduce cost.

"Measure, Analyze, Improve and Control . . . be smart."

Zetarho zetta is a modular types energy management platform, curated to provide a complete visibility and control of the energy consumption across any manufacturing plant or process automation.

Through **Zetarho zetta's** Web application , panel level ,as well as individual machine level data can be monitored. This visibility help companies to drive energy conversion , management initiative, as well as preventive maintenance schedules. Each machines is fitted with a multi function energy meter that transmits data via our proprietary edge gateway over the cloud which is then displayed over the application.



Decomposing the penalty to equipment level and identifying the contributors

Cloud based dashboard helps the headquarters to monitor their plants and their productivity

Machine learning algorithm understands usage patterns and prompts scheduling in advance

ALARMS & EVENTS

Identifies anomalies in trend and notifies on the dashboard. Event log with time stamp created for detailed analysis.

Having a strong environmental, social and governance (ESG) foundation helps companies save energy, increase transparency and work toward better sustainability goals.

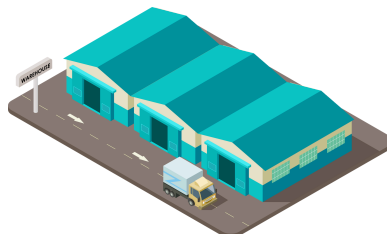
Features:-

- Best & worst performing machines (Actual vs Rated)
- Production line's specific energy consumption analysis (KwHr drill down day, week, month)
- Maximum demand analysis at plant (Maximum demand trend line)
- Machine/Feeder focused priority list (Based on deviations, Inrush current and pf)
- Track saving due to energy efficiency (RS Value)
- Loss of power/availability analysis (% value month wise, week wise drill down)
- Harmonic analysis and power Q- index (V THD, I THD trend line)
- Hierarchy based energy consumption analysis (KwHr drill down day, week , month)

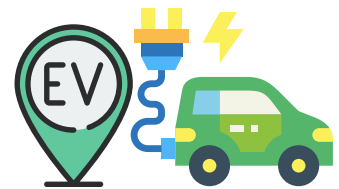
Industries: we serve



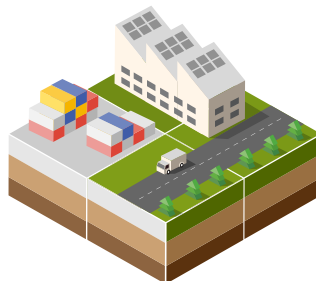
Integrated Steel Plant



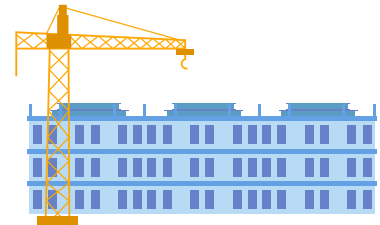
Logistics & warehouse industries



Electric Vehicle



Tea Packaging Centre



Construction Industry.

IIoT Solutions & Architecture

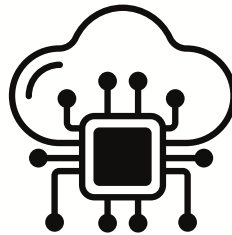


RS-485 MODBUS RTU



Gateway

Energy Monitoring System Data Logging on Cloud



Cloud Storage

Date	Standard	Peak	Off-Peak	Total	Electricity Bill
2023-05-01	1.03 kWh	0 kWh	0 kWh	1.03 kWh	10.50 ₹
2023-05-02	0.42 kWh	0 kWh	0 kWh	0.42 kWh	4.20 ₹
2023-05-03	0.45 kWh	0 kWh	0 kWh	0.45 kWh	5.25 ₹
2023-05-04	0.42 kWh	0 kWh	0 kWh	0.42 kWh	4.20 ₹
2023-05-05	0.42 kWh	0 kWh	0 kWh	0.42 kWh	4.20 ₹
2023-05-06	0.42 kWh	0 kWh	0 kWh	0.42 kWh	4.20 ₹
2023-05-07	0.47 kWh	0 kWh	0 kWh	0.47 kWh	5.25 ₹
2023-05-08	0.42 kWh	0 kWh	0 kWh	0.42 kWh	4.20 ₹
2023-05-09	0.44 kWh	0 kWh	0 kWh	0.44 kWh	4.20 ₹
2023-05-10	0.43 kWh	0 kWh	0 kWh	0.43 kWh	4.20 ₹
2023-05-11	0.46 kWh	0 kWh	0 kWh	0.46 kWh	5.25 ₹
2023-05-12	0.47 kWh	0 kWh	0 kWh	0.47 kWh	5.25 ₹
2023-05-13	0.5 kWh	0 kWh	0 kWh	0.5 kWh	5.25 ₹
2023-05-14	0.45 kWh	0 kWh	0 kWh	0.45 kWh	5.25 ₹
2023-05-15	0.45 kWh	0 kWh	0 kWh	0.45 kWh	5.25 ₹
2023-05-16	0.46 kWh	0 kWh	0 kWh	0.46 kWh	5.25 ₹
2023-05-17	0.49 kWh	0 kWh	0 kWh	0.49 kWh	5.25 ₹

Web Application