Any inefficiencies impact directly on the profitability and value of the asset. Major areas to be addressed are energy usage, maintenance costs, and consumption level. Elmeasure's IOT based platform which helps in providing innovative solutions for today's need. A key goal is to improve resourcefulness and the operational efficiency and hence reduce energy wastage and running costs.

Benefit

Gaining maximum return on assets and investments is the greatest challenge in the development and ownership of any business. This can be achieved by using technology for energy savings, control applications, management system, etc.

Energy Management

- Bringing down the operational expenses
- Helps to take smart decision
- Quick Planning on Production
- Avoid breakdowns, process interruptions
- Monitor equipment efficiency
- Study of energy cost vs production
- Reduction in energy cost
- Planned preventive maintenance
- Equipment wear & tear, deterioration
- Manpower planning
- Accurate MIS reporting/decision making
- Helps to bring down the operation cost be 10-12%

Process Automation

- Live online tracking on energy, production, process parameters fuel & cost
- Electrical and Non Electrical parameters at a Glance
- Plant productivity in one touch of your finger
- Identify the wastage and productiveness
- Reduction in carbon foot print
- Smart cloud based platform for better visibility across the region
- Spot the wastage & malfunction
- Benchmark, back up, security & notifications
- Corrective / predictive maintenance
- Single click to control required feeder

Prepaid Metering

- Effortless integration with Facility services platforms
- Energy, Gas, Water charges in platform
- Easy to pay Utility charges using payment gateways
- Up front payment for electricity bills & fraud detection
- Integration of Gas and Water with the electrical parameters
- Load / Demand control with no bill disputes
- Hassle free payments as you go

Water Management

- Works well with any type of communication either wired or wireless
- Effortless integration with facility services platforms
- Helps customer to track there pay out of water consumption using there mobile
- Smart cloud based system (Cost Effective)
- Efficient asset management and distribution engineering design.
- Non-invasive and retrofitting.
- Accurate real-time data on the web.
- Daily, Weekly, Monthly reports at the click of a button
- Regulate water use and demand.
- Saves water and cost

One Platform
Many Possibilities...

Lighting Management

- Can easily connected with Smart cities Big Data networks
- Following open protocol standards
- Helps natural and progressive growth of the city
- Using smart wireless devices, ease the installation and maintenance
- Generate energy savings up to 20%
- Improve operations management
- Provide light on demand
- Ensure Reliability

BENEFITS:

- Energy Saving - increase savings through intelligent control by adding sensors in addition to schedules customised for power saving and optimal lighting needs
- Scalability - easily scale an installation by adding new lights/devices without any change in architecture or modifications to existing equipment
- Future-proof - with Remote Firmware upgradability and BLE interface, the infrastructure can be continually improved to add support for future sensors/devicesz

Meet the IoT-based solution

The IOT platform collects data from the plant and follows Elmeasure's 4–step energy efficiency plan of measure, detect, manage and conserve, which helps not just to ask the right questions but to find the answers to them.

CLOUD HOSTING!
remote monitoring and controlling

MONITOR ASSET!
tailor-made user-friendly dashboard

AUTOMATE!
decrease dependency

ENSURE UP-TIME!
get on screen Email/SMS alerts

ANALYZE BETTER!
improved insight

SAVE ENERGY!
spend less

Networking
Communicate well...

Gateway helps link any field devices or sensors and devices to the internet so that data, configuration and controlling can be made possible online.

Gateway can work as bridge between Ethernet and GPRS for low cost installation.

Wi-Fi
GPRS
ETHERNET
RS485
MODBUS/MQTT

Cloud for efficiency and agility

Predictive insights from **Big data**

Going mobile anywhere/anytime **access**

Consistent and meaningful **user experience**

An integrated, interoperable and complete solution

Interfaces
Many Possibilities...

ELNet Studio helps to build niche enterprise applications with ease. This enables a harmonious network ecosystem of sensors, gateways and system integrators that enables rapid deployment of real-time applications. It also empowers enterprises and consumers to focus on their core operational activities while ELNet Studio takes care of scalability, interoperability and security aspects.

IOT platform features:

- Software can be hosted on both on-site and cloud
- Software is compatible with different operating systems like Windows & Linux etc...
- Software can run with multiple database (MySQL, Oracle, MSSQL and Postgres)
- Formula based or user definable KPI's
- Tight SLA - Threshold definition, alerting during threshold violation
- Role based access at different level in an organization

- Supports third party server integration
- Compatible for OPC connectivity
- Process parameter integration
- Compatible with third party devices through RS485 & Modbus RTU protocol
- Fail-over mechanism, 99.9% server up time
- Large deployment and scalability
- Customized dash board using widgets
- Compatibility to integrate with multiple protocols/platforms
- Smart user friendly cloud based platforms
- Mobile APPs to get the data on hand
- Alerts - Email & SMS
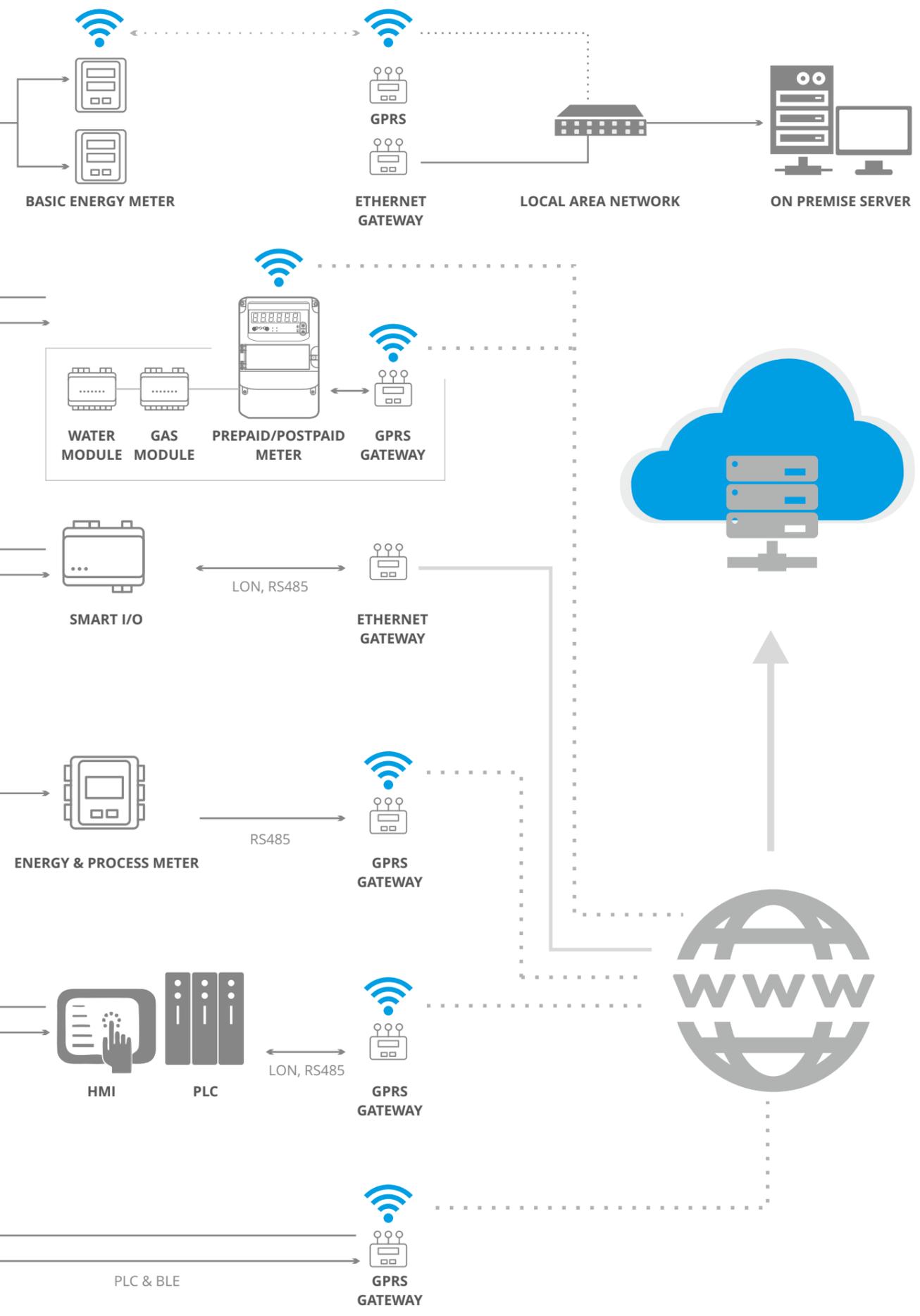- Onsite SLD creation

Solutions

ELECTRICAL PARAMETERS

UTILITY MANAGEMENT

AI,DI,DO

MONITOR & CONTROL PARAMETERS

AI,DI,DO

ENERGY & PRODUCTION PROCESS PARAMETERS

AI,DI,

PUMP MANAGEMENT

AI,DI,DO

LIGHT CONTROL & MONITORING

PLC & BLE

Network Layer

BASIC ENERGY METER

GPRS

ETHERNET
GATEWAY

LOCAL AREA NETWORK

ON PREMISE SERVER

WATER
MODULE

GAS
MODULE

PREPAID/POSTPAID
METER

GPRS
GATEWAY

SMART I/O

LON, RS485

ETHERNET
GATEWAY

ENERGY & PROCESS METER

RS485

GPRS
GATEWAY

HMI

PLC

LON, RS485

GPRS
GATEWAY

WWW

GPRS
GATEWAY

Software Features

DASHBOARD

TAILOR-MADE USER FRIENDLY

ALERTS

SMS

E-MAIL, SMS, ON SCREEN

REPORTS

PERIODIC EXCEL, PDF

ANALYTICS

BUSINESS INTELLIGENCE
MULTI PARAMETER GRAPGH

CONTROL

MANUAL OVERRIDE SCHEDULED

BILLING

AUTOMATIC TARIFF BASED

ELMEASURE®
Possibilities...Infinite

Smart steps for efficient enterprises...

Measure:
This is a flexible, low-cost metering solution for energy management. Various meters feed data through a Webenabled gateway, providing a complete solution for many smaller campuses or businesses.

Detect:
Our solution captures energy consumption in different equipments / zones and process parameters like flow, pressure, counts, machine status, compressed air, ambient conditions and manage them to optmize energy.

Manage:
Our solution will enable to manage the entire plant in the areas of Predictive maintenance, Improve the operation efficiency, Identify the machine performance at a glance through smart UI, Bench marking different operational parameters.

Conserve:
Monitoring the breaks in preparatory segment and Ring frames performance in spinning process has the potential to bring down the operating cost by 10% to 15%.which is a direct saving/ profits.

IoT Solutions for efficient enterprises by comprehensive data analysis!

ELMEASURE®
Possibilities...Infinite

ELMEASURE INDIA PRIVATE LIMITED

Headquarters:
Plot No.: 47-P, Hardware Park, KIADB, Huvinayakanahalli, Jala Hobli, Yelahanka Taluk, Bengaluru - 562149 Karnataka INDIA.

Service Hotline
✉ info@elmeasure.com
☎ +91 639-1010-320
Monday to Friday 8:00 am. to 5:00 pm. IST

Sales Offices: BANGALORE | CHENNAI | COIMBATORE | MUMBAI | DELHI | HYDERABAD | USA | UAE