



***Monitoring energy usage in real time for individual households and common usage areas.
Control the voltage fluctuation
Accurate energy consumption could be determined***

***ElMeasure
Energy Management System
helped us to get accurate MIS
report in one click and helped
the losses was reduced 4%
to 1.2% and helped us
identife voltage fluctuating***

**- Mr. G V Prasad, CEO
Dr. Reddy's Laboratories**

Dr. Reddy's Laboratories Ltd., is India's No.1 Pharmaceutical company delivering affordable and accessible medication to all parts of the world and discovering, developing and commercializing innovative medicines that satisfy unmet medical needs.

A vertically integrated company with a presence in more than 100 countries, and is one of the leading generic pharmaceutical companies by revenues. Dr. Reddy's is dedicated to bringing affordable healthcare to people across the world, regardless of geographic and socio-economic barriers.

The CTO Unit-3 manufacturing plant located in Hyderabad, India where the energy management methods were initiated is spread in 12 acres with employee strength of above 600. Electrical power is purchased from the State Electricity Board and installed capacity of captive power plant capable to deliver 2150 KVA.

Monthly Energy consumption is 500,000 kWh that is drawn from Electricity Board supply.

Solution Components

EMS system :

- 30 Multifunction Meters
ELNet 32 software
with related accessories.
- Wireless communication
between PC and Meter
using RF Modems
- PF Controller and
Capacitor banks

Investment
INR 0.25 Million
Payback period
5.4 months

Real Business results

- Enable operators to
manage peak consumption
with load management
operation, reducing
consumer energy usage,
helping optimize power
distribution
- Enables operators to avoid
the provision of more
costly forms of energy,
thus reducing green house
gases and providing
economic savings to their
consumers

A smart solution

- Benefits achieved Better manpower planning 3 man hours per day is saved as all electrical data logged automatically. Hence manual data logging was completely eliminated.
- Accurate MIS report, 2 Manager days were spent to MIS Report which was still in accurate, Now in one click accurate MIS report is generated.
- Energy Balancing When Reddy's lab started using the EMS, 4% of losses was discovered between the incoming transformer and the distribution panel. They have also identified voltage fluctuation to the tune of 20 to 30 Volts from the transformer. The existing Transformer was with replaced by OLTC transformer and the voltage fluctuation came down to 3 to 4 Volts. The losses of 4% were reduced to 1.2%
- The Power Factor could be closely monitored at each section of the manufacturing area. Some locations PF was going below 0.9 Lag in spite of Capacitor Banks fitted, The root cause could be identified and relocation of capacitor banks corrected the low PF problem
- Section wise or department wise energy consumption could be determined in addition to the shift wise and day wise reports.

For more information

To learn more about Dr.Reddy's installation, visit :
www.elmeasure.com/reddy



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