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***ElMeasure  
Energy Management System  
helped us monitor the  
current distribution in all  
three phases on real time  
and could distribute evenly  
on all the three phases, With  
EMS software Peak hour's  
loads could be closely  
monitored easily for analysis***

**- D Sudhakar**  
Hetero Drugs, Unit-IV

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

Hetero is a research based global pharmaceutical company focused on development, manufacturing and marketing of Active Pharmaceutical Ingredients (APIs), Intermediate Chemicals & Finished Dosages. Ever since its establishment in 1993, Hetero showed a tradition of excellence and deep sense of commitment in developing cost effective processes to offer wide range of affordable drugs. Hetero is building on the strengths of vertical integration in discovery research, process chemistry, API manufacturing, formulation development and commercialization. Hetero is a leading international supplier with a rich portfolio of over 200 products from wide range of therapeutic categories both in active pharmaceutical ingredients and finished dosages.

Hetero's manufacturing facilities are cGMP compliant meeting global standards in terms of infrastructure and systems. With full-fledged marketing capabilities, the company has been able to market its products in over 138 countries across the globe.

**Problem Faced:**

Energy Consumption could not be monitored accurately for all the locations (feeders).

Generator Consumptions could not be monitored separately due to non availability of energy meters for DG Source.

Power factor could not be monitored accurately in defaulting feeder and due to that maintaining healthy power factor was very difficult.

Misleading Energy recording in the existing energy meters due to CT polarity interchanging and power fluctuations.

One technician used to spend three hours a day to collect energy consumption data and to generate the necessary reports manually. The energy bill often inaccurate and with inadequate details.

Time lag of few minutes between individual feeders and mains HT meters reading taken by CPDCL authorities, leading to approximation in billing than actual consumption.

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## Solution Components

- Sophisticated Multifunction Meter with RS 485 Port  
Rs485 port
- Energy Management Software ( Elnet )

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## A smart solution

The existing energy meters were replaced with ElMeasure's sophisticated Multifunction Meters with RS 485 port which was installed in different feeders. The meters were connected to a centralized PC loaded with ElMeasure's Energy Management Software, 'Elnet'.

*Investment*  
*INR 30000*  
*Payback period*  
*< 1 month*

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## Real Business results

Using ElMeasure's Energy Management System as a tool helped to identify the energy wastages and scope for system improvement.

- The Power Factor could be closely monitored at each feeder. At Some locations PF was very low. EMS has helped to identify the root cause. The capacitor banks were relocated to appropriate position and ill effects of low PF was avoided.
- By installing ElMeasures EMS, better man power planning and utilization is achieved.
- Manual data logging of energy consumption which was inaccurate is completely eliminated now and helped to make right decision on time.
- Monthly energy reports(Energy Bills) is Generated accurately for each block individually and total factory.
- Status of energy recording and communication of all the meters is monitored in PC at the central location.
- Inaccurate energy recording due to reversed CT polarity is completely eliminated now due to energy lock option available in the ElMeasure's Multifunction Meters.
- Energy consumptions could be monitored separately for grid as well as all feeders.
- Using Energy management Software (EMS) peak hour's loads could be closely monitored easily for analysis.
- Customer was able to monitor the current distribution in all three phases on real time. The loads were distributed evenly on all the three phases
- Resumption of SEB power is detected through high end ElMeasure's TM 7400 and a digital output from it is connected to a hooter. This warns promptly to the operator to switch over loads from DG power to SEB power. This has helped to eliminate unnecessary running of DG and saved Fuel.
- Customer is able to manage KVA demand within sanctioned limits thus avoiding huge penalties.

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## For more information

To learn more about Hetero Drug Ltd installation, visit :  
[www.elmeasure.com/hetero](http://www.elmeasure.com/hetero)



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