



Splendid Towers Hyderabad, India

**ElMeasure
EMS better man power
planning and utilization
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Monthly energy reports
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individual customers**

- Splendid Towers, Hyderabad

Monitoring energy usage in real time for individual households and common usage areas.

Control the voltage fluctuation

Accurate energy consumption could be determined

Splendid Towers is one of the most prominent High rising buildings on SP Road, Begumpet, Hyderabad. It is an eight storied building which houses reputed MNC's and is maintained by M/s. Janaki Rama Enterprises. It has huge requirement of Electrical Energy due to its large floor area, MNC culture and central Air Conditioning. The company receives bulk HT Supply from SEB and in case of failure of Main SEB Power Supply, DG Sets provides the stand by Power. The entire expenditure of SEB Bill and DG Sets expenses (Diesel) needs be billed to all occupants at No Loss - No Profit basis.

Problem Faced by Customer before installing the ElMeasure Energy Meters & EMS:

1. Energy consumption could not be monitored accurately for all the locations (feeders).
2. Generator consumptions could not be monitored separately due to non availability of energy meters for DG Source.
3. Power factor could not be monitored accurately in defaulting feeder and due to that maintaining unity power factor was very difficult.
4. Misleading Energy recording in the existing energy meters due to CT polarity interchanging and power fluctuations.
5. One technician had to spend four hours a day to collect energy consumption data and to generate the necessary reports manually. The energy bill is often inaccurate and without useful information.
6. Time lag of few minutes between individual feeders and mains HT meter reading taken by CPDCL authorities, this leads to approximation in Billing than actual consumption.

Solution Components

EMS Software :

- Dual source multifunction energy meters with digital output

A smart solution

Dual source multifunctional energy meters to replace existing energy meters. Meters with Digital output option to be installed in different feeders and connecting them to a centralized PC loaded with E L M e a s u r e E n e r g y Management Software.

Investment
INR 2.12 Lakhs
Payback period
6 months

Real Business results

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

1. The Power Factor could be closely monitored at each feeder. At some locations it was found PF was very low. EMS has helped to identify the root cause. The capacitor banks were relocated to appropriate position to improve PF level and avoid penalty if maintained low PF.
2. By installing Elmeasure EMS better man power planning and utilization could be achieved. Manual data logging of energy consumption has been completely eliminated.
3. Monthly energy reports (Energy Bills) is generated accurately for each floor, for individual customers and total building. It also helps in analyzing the energy consumption for the grid and DG.
4. Inaccurate energy recording due to reversed CT polarity is completely eliminated now due to forward energy recording option available in the ElMeasure Meters.
5. Energy consumptions could be monitored separately and accurately for Grid as well as DG.
6. Using Energy management Software (EMS) peak hour loads could be closely monitored easily for analysis.
7. Resumption of SEB power is detected through 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.
8. Customer is able to manage KVA demand within sanctioned limits and avoid huge penalties.

For more information

To learn more about Splendid Towers installation, visit :
www.elmeasure.com/splendid



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