



# **VEDANT ENERGY SOLUTIONS LLP**

**A ONE STOP SOLUTION HOUSE...!**

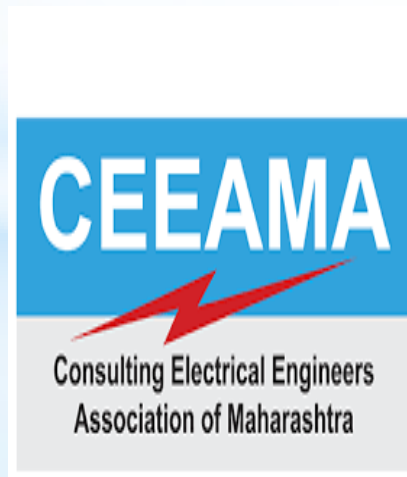
**COMPREHENSIVE ENERGY SOLUTIONS  
WITH EXPERIENCE, KNOWLEDGE AND  
COMMITMENT**

**NOW AT YOUR DOOR STEPS...!**

# A ONE STOP SOLUTION HOUSE...!



- ❖ MEDA(Maharashtra Energy Development Agency) Empanelled "ENERGY AUDIT & ENERGY PLANNER COMPANY".
- ❖ Licensed Electrical Contractors.
- ❖ ISO 9001:2015 Certified.
- ❖ Member to CEEAMA, The Consulting Electrical Engineers Association of Maharashtra.
- ❖ Active Participation in CMIA's Energy Cell.



# OUR COMMITMENT



- ❑ To Provide End To End Solutions for Energy Conservation through audits, project execution, advance monitoring solutions to make the Customer 100% Satisfied on his needs all the times
- ❑ Provide Solutions for Conventional And Non-conventional Energy Sources , Solar Power Generation Etc.
- ❑ To be associated with the customer on long term basis for all their Energy Conservation activities.

# Our Offerings which makes us different from the typical Category of Energy Auditing Companies.....!

- ❑ Energy Audits & Project Consultancy.
- ❑ Power Quality Audits and Solutions.
- ❑ End to End Consultancy and comprehensive Solutions in Solar Energy, Private Power Purchase, Open Access, Net Metering.
- ❑ Consultancy in TPM, TQM, Productivity Improvement.
- ❑ **Well Versed decentralized Energy Audit Solutions i.e. We also offer partial energy audit solutions at customers requirement i.e. Separate Audits for Compressors, Chillers, Furnaces, Boilers & Other utilities to meet customer Energy Audit Budgets.**

# **Our Offerings which makes us different from the typical Category of Energy Auditing Companies.....!**

- In Depth Scientific Compressor Audits with Leakage Identification and Rectification program through Highly precise Ultra Sonic Leak Detection Mechanism.
- Energy Performance Contracting.
- High End, Accurate, 100% Indigenous Energy Monitoring System with Monitoring and analysis of Electrical Energy & Process Parameters like Pressure, Flow, Temperature.
- An added edge of Automation.
- 100 % Indigenous Solar PV Lab developed for Educational Institutes.
- Design , Supply, Installation of Energy Efficient Lighting Solutions with a High End Design Lab handled by a Limka World Record holder Lighting Expert.
- Comprehensive Solutions for Earthing & Grounding.

# Our Strengths



- ❑ Qualified and Experienced Team of Engineers, Certified Energy Auditors in all domains i.e. Electrical, Mechanical & Thermal, Power Quality etc. with average 20 Years on field rich experience.
- ❑ We understand energy in real sense from the perspective of the top management up to the lowest level of operational people on shop floor since all of our Auditors have worked Extensively in Automobile, Process industries.
- ❑ We have served almost all the major Automobile Companies Like TATA, Bajaj, Mahindra, SKODA and also the ancillaries like Endurance, Varroc, Badve Engineering, Rucha Group, OMR Bagla & many Process & Pharma Companies across India.
- ❑ We have done an International Assignment for Energy Audit, Power Quality & harmonics Analysis.

# Our Products and Services

- HT-LT Installation & Commissioning.
- All type of Electrical Contracting and Consulting, Legal Compliances with Electricity board.
- Energy Audits (Electrical, Mechanical, Thermal Utilities).
- Compressed Air Leak Audit with High end Ultrasonic Equipment (UE systems Make).
- Harmonic And Power Quality Audits.
- Harmonic Filters (Active, Detuned) & PQ solutions.
- Infrared Thermography Audits for Breakdown Prevention.
- Earthing system Health Test Audits with Digital Online Earth Measurement Device.
- Advanced Earthing Solutions.
- Electrical Safety Audit.
- Electrical Fault Analysis.
- Lightning Arrestor Assessment Audit, Design, Implementation as per IS/IEC 62305.
- Vibration Analysis.

# Electrical Services

## **Professional Preliminary and Detailed Audits Through Experienced and BEE Certified Energy Auditors with 30-35 Years of experience,**

- 100 % Reliable Solutions in Harmonics and Power Quality (Detuned Filters, Active Filters, PQCT For Automotive Welding and unbalance Loads) along with detailed Harmonics and PQ Audits by Experienced domain experts.
- Design, Supply, Installation and Commissioning of Earthing System as per IS 3043 and International NFPA, ANSEE standards.
- Infra Red Thermography of Electrical Set Up for Reducing the Fire risks, breakdowns, Failures.
- Complete Range of Lighting Solution. We Design and Supply all types of Advanced, Energy efficient Lighting Solutions i.e. LED, Conventional.
- Unique Service : We do assessment of Lightning Arrestors as per IS 2309 and provide a detailed Report which is now a days mandatory in Statutory Safety Audits.
- Solution on all types of Electrical Problems i.e. power factor improvement, Performance Problems of Machineries, Earth- Neutral Voltage Problems, Cable Heating, Tripping etc. issues will be addressed and resolved



# Mechanical & Thermal Services

## **Professional Energy Audits (Mechanical / Thermal) through average 30 Years experienced BEE Certified Energy Auditors,**

- Heat Loss Audits of Paint Baking Ovens, Boilers, Chillers, Furnaces etc. and detailed Estimation with Project Execution Plan.
- Chillers, Boilers, Furnaces, Compressors Efficiency Audits & Solutions.
- Provide Services in Water Audits, Pump Audits with detail reports and Energy Saving Potential with implementation plan
- Payback Period in few Months .....!



**Power Analyzer**



**Thermal Imager**



**LUX Meter**



**Nano Analyzer**



**Pressure Gauge**



**Digital Anemometer**



**Digital Laser Temp Sensor**



**Sling Psychrometer**



**Ultrasonic Flow Meter**



**Portable Flue Gas Analyzer**



**Laser Distance Meter**

**Calibrated and accurate Digital Earth Tester (MOTWANE) Make.**

**Vibration Meter.**

**Our Assets**

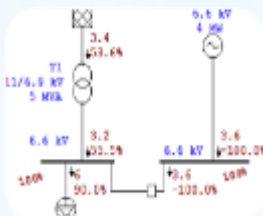
# Our Additional Services



## SOFTWARE BASED ELECTRICAL POWER SYSTEM ANALYSIS



**Renewable Energy**



**Load Flow Analysis**



**Protection Co-ordination Relay**



**Arc Flash Analysis**



**Harmonic Analysis**



**Cable Ampicity**

## OWN DEVELOPED IOT BASED ENERGY MONITORING SYSTEM



# Our Additional Services

## STATIC VAR COMPENSATOR

### The Most Economic Solution For KVAH management.

#### INTRODUCTION

- In the state of Maharashtra, as per MERC Order in Case no. 195 of 2017 dated September 12, 2018, The Commission intends to implement KVAH billing to all HT consumer and LT consumers having load above 20 kW from 1st April 2020.
- As per the new billing system, No penalty & incentive for PF shall be applicable.
- In case KVAH Rates are kept same as is KWH Rates in existing tariff, consumers energy bills shall increase by about 10-15 % in case of PF is not maintained near unity i.e. above 0.99.

# AND HERE OUR BEST SUITABLE SOLUTION TO THIS :-

- KVAH billing has given an opportunity to minimize the Monthly Billing by optimizing the KVAH consumption and this is can be achieved by Arjun Flex VAR which has a capability to compensate reactive power step-less dynamically and both in lagging and leading compensation to optimize the KVAH consumption

A Smart, Economic Hybrid Solution for you...!

**"Arjun FlexVar "**

**ARJUN Flex-VAR**

**The Most Economic Solutions for KVAH Management**

- Quick and Dynamic Response within 20 ms
- Phase Wise Reactive Power Control for Unbalanced loads
- Smart EMS & Monitoring system is an inbuilt feature
- ROI within 12-18 Months
- Instant SMS and E-Mail for any abnormality in maintaining KVAR, KVAH
- Can Control Current Harmonics as well..!

[www.vedantenergysolutions.com](http://www.vedantenergysolutions.com)





## **WHY WE ARE A ONE STOP SOLUTION HOUSE...!**

**We believe in developing a long term relationship with the Clients by,**

- Conducting Energy Audits on plant level, group level.
- Making Comparisons of Energy Intensive Processes, Utilities based on Specific Energy Consumption.
- Assessment of Saving Potential, Plant Wise, Group Wise.
- Estimation of Cost Saving and Investments.
- Have capabilities to Execute the projects with performance / result assurance.
- Have sufficient infrastructure for undertaking Performance Monitoring and sustenance contract through Skillful Manpower, Own Developed Energy Monitoring System (Wired, Web Based).



## **OUR STRATEGY AND APPROACH WHICH HELPED US TO GAIN CONFIDENCE OF OUR ESTEEMED CUSTOMERS.**

- Helping the Clients before the audits in form of Awareness Sessions among the group.
- Creating a environment among the plant team for energy Conservation.
- Assessing Plant Processes by personal visit and Database.
- Knowledge Sharing and attending queries / calls from plant people including top management to working team.
- Trying to make Energy Conservation activity as a habit by continuous conversation with clients before and after audit.
- We add an edge of Safety to our audits as a most necessary part.

**Because, Energy Conservation is just not a business for us, its an Inspiration and self motivation.....!!**



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**FEW OF OUR CREDENSIVE CUSTOMERS WHICH WILL LET YOU TO BELIEVE ON US.....!!**





# VEDANT ENERGY SOLUTIONS LLP

*A One Stop Solution House*

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