



MARSZ ELECTRICALS

FROM VISION TO REALITY

IN ASSOCIATION WITH

BNN

COMPREHENSIVE ENERGY AUDIT

**500 UNITS / DAY FOR
1000 KVA MD GUARANTEED
BY ONLY AUDIT
(NO CAPITAL INVESTMENT)**



**AN ESCO COMPANY
EMPANELED WITH
BUREAU OF ENERGY
EFFICIENCY, GOVT. OF
INDIA, MINISTRY OF
POWER**





OUR PROFILE

MARSZ association with BNN is a reputed developer, manufacturer and service provider.

All our Technical products are the best in performance, and provide complete reliability to the users. Under the visionary leadership of our mentors, we are well-known brand of Industrial and commercial sectors in the national market. Bureau of Energy Efficiency, Govt. of India, Ministry of power empanelment as an Energy Service Company is our credential.

THE OBJECTIVE

MARSZ association with **BNN** a Mumbai, based **ESCO (Energy Service Company)** empaneled with Bureau of Energy Efficiency, Govt. of India, Ministry of Power.

Engaged in developing an extensive range of innovative **PRODUCTS** to the customers of Various types of Industrial, Textile, Medical & Commercial sectors.

Acknowledged for reliability, innovative idea and availability with lower price. Our range of **PRODUCTS** is widely used in Saving Energy for LED Lights & Motor / Mixed Load, Harmonics Control, Solar Street Light, Power Factor control with or without capacitors and many other purposes.

INTRODUCTION

A comprehensive energy audit is a systematic and thorough examination of a factory or organization's energy usage patterns, aimed at identifying opportunities to optimize energy consumption and reduce energy costs. The primary objective of this audit is to identify, evaluate, and prioritize energy-saving measures based on their potential impact, cost-effectiveness, and feasibility.

“We support our customers in the most effective way possible, both on the electricity bill reduction and in maintenance, quality and safety”.

Our team of experts utilizes a unique combination of daily monitoring data, production data, analytics, and human expertise to deliver exceptional value to our customers. This integrated approach results in optimized machine lifecycle efficiency and enhanced performance.

From preventing losses and wastage of electricity to delivering solutions that enhance performance, our team of experts is a force to be reckoned with. Read on to discover the other prominent features we offer.

KEY POINTS

1. Data Collection: This process involves collecting detailed information about the factory's energy usage, including utility bills, energy consumption data, and operating schedules. By analyzing this data, we can identify areas for improvement and implement strategies to optimize energy efficiency.

2. Energy Survey: This process involves conducting a thorough physical inspection of the factory to identify energy-saving opportunities and pinpoint areas where energy is being wasted. This includes evaluating HVAC systems, insulation, and other energy-consuming equipment. Specific areas such as compressor losses, chilling plant inefficiencies, cable losses, and transformer losses are carefully examined to ensure optimal energy use and minimize wastage.

3. Energy Modeling: This process involves using GPRS monitoring to simulate energy usage and identify areas where energy savings can be achieved. A customized dashboard enables real-time comparison of energy consumption during peak and non-peak hours across similar production entities, allowing for data-driven decisions and more effective energy management.

4. Analysis and Implementation: Based on the data collected and the energy survey, our power audit team will thoroughly analyze the factory or organization's energy usage. Identified losses and wastage will be converted into actionable energy-saving measures. These measures will be prioritized based on their potential impact, cost-effectiveness, and feasibility, ensuring that improvements are reflected in the monthly electricity bill.

5. Comparison: While normal audit recommendations typically require a separate budget, a comprehensive energy audit offers the advantage of implementing solutions during the audit itself, in coordination with the maintenance team. This integrated approach not only saves time but also maximizes the benefits by addressing energy inefficiencies immediately.

6. Utility Comparison with Production: Utilities operate continuously, regardless of production levels. By assessing the utility requirements of individual machines, we can significantly reduce excess consumption. This targeted approach helps optimize energy usage and minimize waste, resulting in substantial cost savings.

7. Specific Energy Requirement: It indicates the efficiency of specific equipment both at the load site and from the supply side. This assessment is crucial for understanding performance and optimizing energy consumption.

8. Audit Compliance: All audit compliance matters will be addressed in close coordination with both the audit team and the maintenance team. This collaborative approach ensures thorough resolution and effective implementation of recommended measures.

DETAILS

Through a comprehensive energy audit, organizations can significantly reduce their energy consumption and lower overall energy costs. Beyond these financial savings, an energy audit also helps improve energy efficiency, enhance operational performance, and optimize power quality. Additionally, it contributes to reducing the organization's carbon footprint, supporting sustainability goals. A further benefit is the reduction in yearly maintenance costs, as efficient energy use often leads to less wear and tear on equipment and infrastructure.

By offering performance guarantees and optimizing both maintenance and operations, our team of experts helps customers not only reduce electricity costs but also proactively avoid and address unforeseen operational and technical events. This approach ensures smooth and efficient performance, minimizing disruptions and enhancing overall reliability.

We provide a wide range of services to our customers through close collaboration between our company's maintenance planners and our expert team, supported by remote assistance.

Our proactive guidance and advisory services are offered free for the first year, ensuring a smooth transition towards optimized energy use. Establishing energy-saving measures is a critical task, supported by routine testing to maintain consistent performance and meet benchmarks. Remote monitoring plays a pivotal role in ensuring sustained efficiency. Ultimately, these efforts lead to a significant reduction in monthly electricity bills."

We optimize power usage for our customers, which enhances power quality and, in turn, minimizes yearly maintenance costs and reduces production downtime. This ensures more efficient operations and long-term reliability for their systems.

THE FIGURES

At MARSZ, we provide comprehensive online assistance to our customers, no matter where they are, ensuring support is available anytime, anywhere. For specialized on-site issues, our highly skilled engineers are seamlessly linked to our back office, ready to resolve problems swiftly. These experts not only possess deep technical expertise but also have intimate knowledge of the site history, allowing them to anticipate potential challenges and provide tailored solutions. Their dedication to individual customers ensures smooth and efficient resolution of any issue, resulting in a truly personalized support experience.

Our relationship is built on collaboration and mutual benefit. As we gain substantial technical experience, we share this knowledge with our customers. They benefit from our feedback, as we identify issues and suggest improvements for their maintenance activities.

Ultimately, the role of our team of experts is to enhance the lifecycle efficiency of our customers' assets. Our first target is to define optimal maintenance intervals, ensuring that we fulfill our commitment to performance. In turn, this focus helps our customers achieve their primary interest: reducing their electricity bills.

Work Completion: From the date of receipt of the work order, the draft energy audit report is submitted within 3 to 4 weeks. The finalization of the energy audit report is typically completed within one month thereafter.

Energy saving is not a one-time job; it requires continuous effort. Our team of experts diligently compares production data with utility data, a process that can be time-consuming. Additionally, our ground team collects machine-specific data to highlight consumption patterns in specific areas, helping to avoid losses and wastage of electricity. Imagine the work of our experts—calm and dedicated—as they seize every opportunity to optimize energy usage, even amidst production variations and fluctuating utility loads.



ALL ENERGY AUDIT ILLUSTRATIVE CLIENT LIST

Sr. No.	Client Type of Business	Type of Business	Load in KVA	Qty.
MEDICAL/PHARMA SECTOR				
1	Gloabal Hospital, Parel, Mumbai	Hospital	1200	1
2	Hira Mongi Hospital, Mulund, Mumbai	Hospital	180	1
3	Life Line Hospital, Pune	Hospital	50	1
4	Lion Hospital, Navi Mumbai	Hospital	40	1
5	Fortis Hospital, Mulund, Mumbai	Hospital	1500	1
6	Upasani Super Specialty Hospital, Mulund	Hospital	150	1
7	Shushrusha Hospital, Nerul	Hospital	65	1
8	Life Care Hospital, Thane	Hospital	60	1
9	Sawant Nursing Home, Nerul	Hospital	25	1
10	Anurag Nursing Home, Nerul	Hospital	35	1
11	HCG Hospital, Bangalore	Hospital	190	1
12	MCGM - Dr. Anandibai Joshi Hospital, Kurla,	Hospital	75	1
13	MCGM - Dr. Anandibai Joshi Hospital, Kurla,	Hospital	75	1
14	MCGM - Maa Hospital, Chembur, Mumbai	Hospital	130	1
15	MCGM - Meenatai Thakre Hospital, Mumbai	Hospital	100	1
16	MCGM - Ramabai Ambedkar Hospital, Mumbai	Hospital	95	2
17	MCGM - Shatabdi Hospital, Govandi, Mumbai	Hospital	430	1
18	MCGM - Jumbo Covid Hospital BKC, Mumbai	Hospital	1600	Phase I & II
19	MCGM - Rajawadi Hospital, Ghatkopar, Mumbai	Hospital	350	1
20	MCGM - GTB Hospital- Shiwri, Mumbai	Hospital	80	1
21	SRV Hospital, Chembur	Hospital	250	1
22	New Rekha Chemicals Pvt Ltd., Dombivali	Chemical	300	1
23	TATA 1MG Technologies Limited	Pharmacy Labs	50-200	42
24	Metallurgical Testing Services, Mumbai	Laboratory	100	1
25	Shreecham Laboratory, Navi-Mumbai	Laboratory	200	1
26	Cipla Limited, Vikhroli, Mumbai	Pharmaceutical	1400	1
27	Aarti drugs Ltd.- Tarapur, Palghar	Pharmaceutical	210-730	6
28	Yashraj Biotechnologies LTD., Mavi-Mumbai	Pharmaceutical	300-500	3
29	Bharat Serum Ltd., Navi-Mumbai	Pharmaceutical	800	1
30	Watson Pharmaceuticals Ltd, Badlapur	Pharmaceutical	840	1
31	Kilitch Healthcare Pvt. Ltd	Pharmaceutical	500	1
32	V.V. Pharma Pvt Ltd.	Pharma/ Mft.	400	1
33	Thermofisher scientific, Mumbai	Healthcare	135	1
MANUFACTURING/PACKAGING SECTOR				
34	Indofill Industries Ltd., Thane	Manufacturing	1200	1
35	Fibre Foils Limited, Khopoli, Raigad	Manufacturing	600	1
36	Vertiv Ltd., Ambernath MIDC	Manufacturing	625	1
37	Advanced Bolting Solutions Pvt Ltd., Navi-Mumbai	Manufacturing	120	1
38	New Age Fire Protection Industries Ltd., Khopoli	Manufacturing	450	1
39	Apex Technoplasts Pvt. Ltd, Khopoli	Manufacturing	500	1

40	Mansons Internationals, Taloja MIDC, Panvel	Manufacturing	600	1
41	Interfab Electronics, Navi-Mumbai	Manufacturing	200	1
42	Bhalaria Metal Craft Pvt Ltd., Bhayandar, MH	Manufacturing	210	1
43	Neutech Sintered Products Pvt Ltd., Boisar	Manufacturing	300	1
44	Pawan Hans Ltd., Mumbai	Manufacturing	300	1
45	Sims Ceramics Ltd, Morbi	Manufacturing	400	1
46	Simpolo Vittrified Pvt Ltd., Morbi	Manufacturing	350	1
47	V3 Industries, Gujrat	Manufacturing	-	1
48	Nestle India Limited, Mysore, Karnataka	Dairy	650	1
	Sumul Dairy – Surat, Gujarat	Dairy	1100	1
49	Amul Ltd. – Ananad Gujarat & Vasai Thane	Dairy	1600	2
50	Nestle India Limited, Mysore, Karnataka	Dairy	650	1
51	Times of India – Airoli , Kerala	Printing	170 & 850	2
52	Lokmat Ltd. – Mahape, Nashik, Aurangabad, Jalgaon, Latur, Mumbai, Solapur, Pune	Printing	240-480	8
53	Prudent Arts & Fab Pvt Ltd., Navi-Mumbai	Printing	200	1
54	Reliable Analytics Pvt Ltd., Bhiwandi , Thane	Calibration Lab	350	1
55	Tata Steel – Tarapur, Palghar	Steel	2600	1
56	Shivam Steels & Tubes Ltd., Atgaon	Steel	350	1
57	Venus wires Ltd.,Khopoli	Steel	730	1
58	Aquasub Engg. Ltd.- Coimbatore	Foundry	800&1700	3
59	Time Technoplast Ltd., Mumbai	Plastic Industry	450-700	4
60	VKM Foods Pvt Ltd., Taloja MIDC, Panvel	Seafood	580	1
61	Simpolo Ceramics – Morbi, Gujarat	Tiles Industry	1700	1
TEXTILE SECTOR				
62	Arvind Mills Ltd. - Ahmedabad, Gujarat	Textile	800	1
63	Juliet apparels - Karnataka	Textile	715	1
64	Shiv Shankar Textiles, Navi-Mumbai	Textile	600	1
65	Kanhayya Texport, Solapur	Textile	800	1
66	Arvind Fashion Industries Ltd., Bangalore	Garments	1000	1
67	Laxmi Spinners, Solapur	Textile	500	1
68	Bolli Cotton & Spinners, Solapur	Textile	200	2
69	Anisha Silk Mill Pvt. Ltd., Gujarat	Textile	300	1
70	Limon Process, Navi-Mumbai	Textile	600	1
CORPORATE/OFFICE SECTOR				
71	Canara Bank – Mumbai & Suburbs	Banking	14-65	48
72	Bank of Maharashtra, Mumbai	Banking	80	1
73	Hotel Tanish Taloja	Hotel	100	1
74	Hotel Marine Plaza, Fort, Mumbai	Hotel	180	1
75	Hotel Grand Central, Chembur	Hotel	120	1
76	K Star Mall, Chembur	Shopping	300	1
77	Bharat Diamond Ltd., BKC, Mumbai	-	-	1
78	Brocade Communication, Bangalore	Offices	-	1
79	Bhavaria Motors Ltd. - Goa	Automobile	60-170	7
80	Wonder cars – Pune	Automobile	30-75	8
SPORTS SECTOR				

81	Airoli Sports Club Association, Navi Mumbai	Sports Club	600	1
82	Mumbai Cricket Association's Sharad Pawar Stadium – BKC, Mumbai	Cricket Stadium	900	1
83	Mumbai Cricket Association's Sachin Tendulkar Gymkhana – Kandivali, Mumbai	Sports Club	800	1
84	Jolly Gymkhana - Ghatkopar, Mumbai	Sports Club	700	1
EDUCATION SECTOR				
85	Pawar public School, Bhandup, Mumbai	School	290	1
86	Podar International School, Bhiwandi, Thane	School	200	2
87	ITM college Nerul & Kharghar, Navi Mumbai	College	430	1
88	NES Ratnam College, Mumbai	College	180	1
89	Anglo Eastern Merytime Academy, Khopoli	College	350	1
PUBLIC/GOVERNMENT/MUNICIPAL CORPORATIONS				
90	NMMC – CBD Belapur Pump House	Pump House	2000	1
91	NMMC – Sewage Treatment Plant	Pump House	500-800	4
92	MSRTC Ltd. – All over Maharashtra Depo	Transport	45-180	9
93	Airport Authority of India, Bangalore	Aviation	950	2
94	Canteen Stores Department (Military Building), Churchgate Mumbai	Office	75	1

CLIENTS



MUMBAI CRICKET ASSOCIATION
Indoor Cricket Academy And Recreation Center



THE TIMES OF INDIA



AND MANY MORE



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