



BLUE STAR



BLUE STAR ENERGY MANAGEMENT SERVICES.  
**MAKING THE WORLD MORE ENERGY EFFICIENT,  
MORE SUSTAINABLE.**

## Bringing efficiency to energy management

With over eighty years of experience in HVAC systems, Blue Star has a strong understanding of energy consumption in buildings. Our team of certified energy managers and auditors is here to help you improve your energy use. Today, being energy-efficient is essential and not just a choice. Rising energy costs, environmental concerns and regulatory pressures are pushing businesses to use energy wisely.

Join us in our commitment to energy efficiency and sustainability. Together, we can lead the charge toward a more energy-efficient future, benefitting not only your organisation but also the planet.





# What is Energy Management Systems? ⚡

An Energy Management System (EMS) is a comprehensive, real-time solution designed to enhance sustainability performance and drive energy cost savings. It helps facilities and enterprises manage their energy use by monitoring, forecasting and optimising energy consumption and supply.

For process industries and manufacturing organisations, an EMS provides valuable data-driven insights to help decision-makers to balance environmental, financial and operational trade-offs. This system not only helps organisations save money but also supports efforts to reduce carbon emissions, promoting a more sustainable future.

By using EMS, organisations can plan better and operate more efficiently, leading to improved overall performance and lower environmental impact.

## 5 Signs you need Energy Management Services ⚡

01

If your monthly energy bill is always high

02

If you suspect high amounts of energy usage after office hours

03

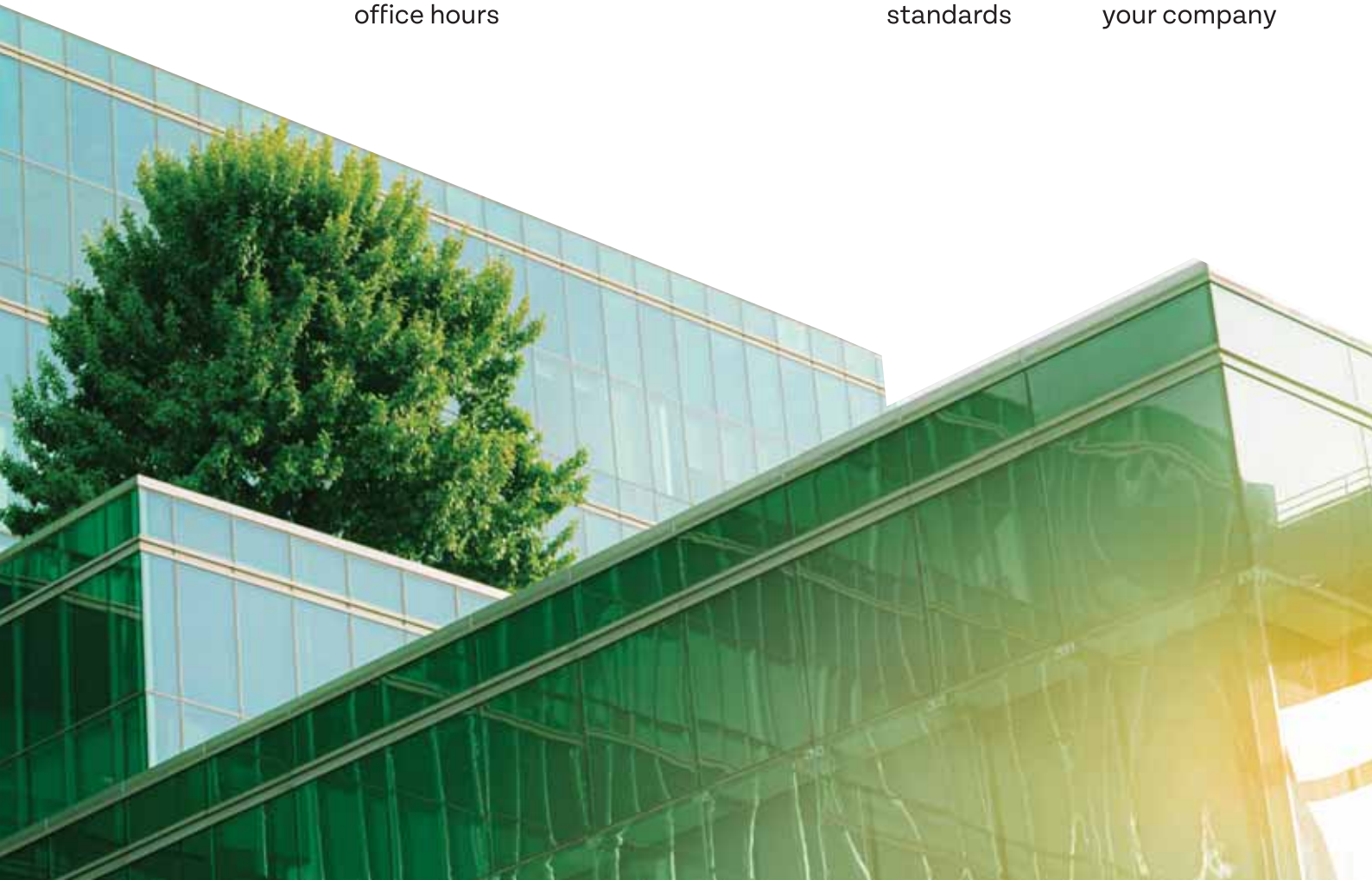
If you lack data for compliance and sustainability programmes

04

If your organisation's energy policy isn't up to date as per standards

05

If there's no set procedure to monitor energy use in your company





## The Benefits



### **Cost Reduction:**

Lowering energy bills and improving profitability



### **Environmental Sustainability:**

Reducing carbon footprint and contributing to a greener future



### **Risk Mitigation:**

Protecting against energy price fluctuations and supply disruptions



### **Regulatory Compliance:**

Meeting energy efficiency standards and avoiding penalties



### **Competitive Advantage:**

Demonstrating environmental responsibility and attracting eco-conscious customers



# Innovative Energy Audits for a Greener Future

The energy audit is a first step to provide insight into the potential energy and operational savings. We have a holistic approach when it comes to Energy Audits. We offer a comprehensive range of energy management services tailored to your specific needs:



## ***Walk-Through Energy Audit***

- Rapid assessment of energy consumption patterns
- Identification of low-hanging fruit for immediate energy savings
- Recommendations for quick implementation measures



## ***Detailed Energy Audit***

- In-depth analysis of energy usage across your facility
- Detailed energy consumption profiling
- Comprehensive energy balance and benchmarking
- Identification of energy-saving opportunities with cost-benefit analysis
- Development of a prioritised energy action plan



## ***HVAC System Performance Testing***

- Comprehensive evaluation of HVAC system components and performance
- Analysis of load profiles to identify optimisation opportunities
- Benchmarking against industry standards for performance comparison
- Actionable recommendations to improve efficiency and reduce energy consumption



## ***Power Plant Energy Audit***

- Performance assessment of Boilers (Packaged, Travelling grade, AFBC, CFBC, Pulverized fuel firing) and its accessories
- Performance assessment of Steam Turbines and its accessories
- Any specific area which will have impact on energy efficiency of the system as a whole are studied and reported with possible measures of improvement



## ***Compressed Air System Audit***

- Compressed air system performance assessment - Free Air Delivery (FAD) test
- Compressed air leakage identification and estimation of cost saving
- Compressed air is an expensive utility due to high electricity cost. Focused mainly on optimisation of air consumption in a plant that can have a significant effect on the energy consumption.

# Methodology of Energy Audit:



- Technical data collection of all systems mentioned in the scope of work
- Performance testing on all equipment to establish current performance standard. During performance testing, electrical measurements will be carried out with high end calibrated instruments.
- Critical analysis of the performance test and comparison with the rated parameters. Recommendation for performance optimisation of all equipments and systems
- Development of Energy Conservation Measures
- Submission of techno-commercial energy audit report with ROI computation

## Why Blue Star?

- Founding Member of IGBC
- ISO Certification
- Recognised as a Grade II accredited Energy Service Company (ESCO) by the Bureau of Energy Efficiency(BEE)



Indian Green  
Building Council



Bureau of  
Energy Efficiency



National Environmental  
Balancing Bureau



National Air Duct  
Cleaners' Association



Performance  
Measurement  
And Verification  
Analyst



International Well  
Building Institute™

- Our team uses state-of-the-art equipment for measurement and verification like Infrared Thermal Imaging Camera, Digital RH Meter, Borescope, and more.
- Team of Testing, Adjusting and Balancing (TAB) experts
- Sophisticated software analysis
- Expertise for designing Energy Efficient Designs of HVAC Systems
- Adherence to Modern Installation Practices
- Hands-on experience for third-party commissioning
- A core team of Energy Management professionals who have hands-on experience in auditing and building energy simulation
- Team of Indoor Air Quality auditors for comfort cooling applications

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