



CASE STUDY:

Energy Conservation - Performance Contracting

Government

Overview

As part of the National Productivity Council for Secretariat Premises Energy Conservation initiative, the Secretariat was deemed a designated site for Energy Audit & implementation of Energy Efficiency measures targeted at the delivery of 20% Guaranteed Energy Savings.

Enzen team was responsible for delivery & implementation of Energy Efficiency Solutions prescribed by the Investment Grade Energy Audit for realisation of 20% savings in Energy Consumption.

Highlights

- > Preliminary Site Study & Validation of Energy Audit Findings
> Creation of an Inventory of Assets & Base-lining of Energy Consumption
> Installation & Commissioning of innovative Energy Efficiency Solutions
> Post Implementation Support , Monitoring & Verification of 20% Energy Savings

State Secretariat – Energy Efficiency Requirements

The State Secretariat had sanctioned an Investment Grade Energy Audit according to Bureau of Energy Efficiency guidelines. The Energy Efficiency Solutions prescribed by the energy audit were to be implemented by an accredited ESCO (Energy Services Company) company on a Guaranteed Savings financial model. Enzen was appointed to translate the Energy Audit findings into tangible energy savings by implementing this prestigious project.

Enzen’s Contribution

Enzen Global Limited, an accredited Grade II ESCO and certified Energy Efficiency Services Limited Company, has built an experienced team for delivery of Energy Audits and implementation of Energy Efficiency Solutions. The team’s expertise was keenly sought by the Secretariat, which needed a reliable partner to carry forward the findings of the Investment Grade Energy Audit.

Enzen’s Engagement Scope

Enzen is a fast growing and recognised ESCO in India, and was engaged to baseline energy consumption, build capacity and take responsibility for the delivery of 20% Guaranteed Energy Savings via implementation of a variety of innovative Energy Efficiency Solutions.

Enzen’s Approach & Solutions

- > The team approached this prestigious public sector project in a holistic manner, initially conducting a preliminary site study to validate the findings of the Investment Grade Energy Audit
> Assets were inventorised and Energy Consumption across the Secretariat was base-lined. This laid the foundation for development of a DPR for successful delivery of the following scope of work:

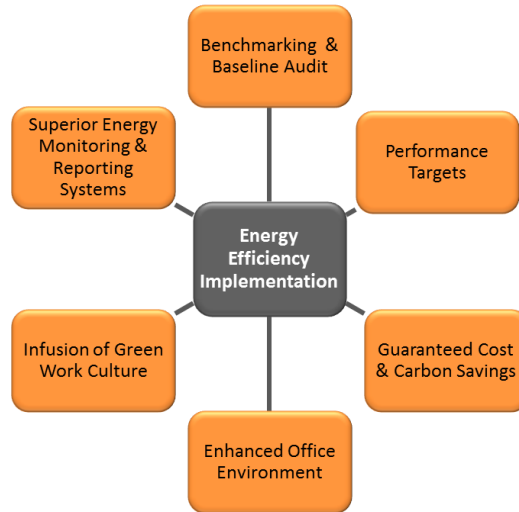
Table with 2 columns: No, Energy Efficiency Solutions. Contains 7 rows of energy-saving measures like lamps, air conditioners, pumps, capacitors, etc.

Key Benefits

- Projected Annual Energy Savings of 317,000 kWh or Guaranteed Savings of 20%
- Annual Cost and Carbon savings of Rs. 32,00,000 and 1200tCO2e per year
- Enhanced working environment via improved lighting & cooling
- Reduction in O&M costs & improvement in Asset Life
- Superior Energy Monitoring & Reporting Systems

- Having clearly defined the scope of implementation, the team identified suitable technologies and suppliers to meet the technical requirements.
- These innovative Energy Efficiency solutions were installed and commissioned by the Enzen team who then proceeded to monitor, verify and report the energy savings in a systematic manner.
- Post Implementation Support and Awareness Campaigns were conducted to ensure the impact of energy conservation measures were maximised and their importance understood by all stakeholders in the Secretariat.

Energy Efficiency Solution Framework



Enzen Delivered Client - Benefits

- Enzen delivers project as ESCO partner as per the National Productivity Council for Secretariat Premises Energy Conservation initiative.
- Projected Annual Energy Savings of 317,000 kWh or 20% were achieved saving the facility Rs. 32,00,000 per annum in terms of energy costs and 1200tCO2e in terms of emissions reductions.
- In addition, operating conditions were enhanced via improved lighting and cooling systems, contributing towards a greener, cleaner and more efficient Secretariat building.
- Best of breed Energy measurement, monitoring and reporting systems and processes have been put in place
- Capacity Building & Awareness Creation – the project helped to create a ‘green’ working culture with particular emphasis on the behavioural aspects, together with a range of new technology.

By adopting a ‘Concept to Commissioning’ approach, Enzen converted the Secretariat into a model government facility demonstrating best practices in the Energy Efficiency sphere

Enzen, the Enzen Logo, The ‘e’ device and enzenglobal.co.uk are trademarks of Enzen Global Ltd. References in this publication to Enzen products, programs or services do not imply that Enzen intends to make these available in all countries in which Enzen operates. Any reference to an Enzen product, program or service is not intended to imply that only Enzen’s product, program or service may be used. Any functionally equivalent product, program or service may be used instead. All customer examples cited represent how some customers have used Enzen’s products or services and the results they may have achieved. This publication is for general guidance only. Photographs may show design models.

