



# **SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS**

**An Integrated Campus for Engineering and MBA**

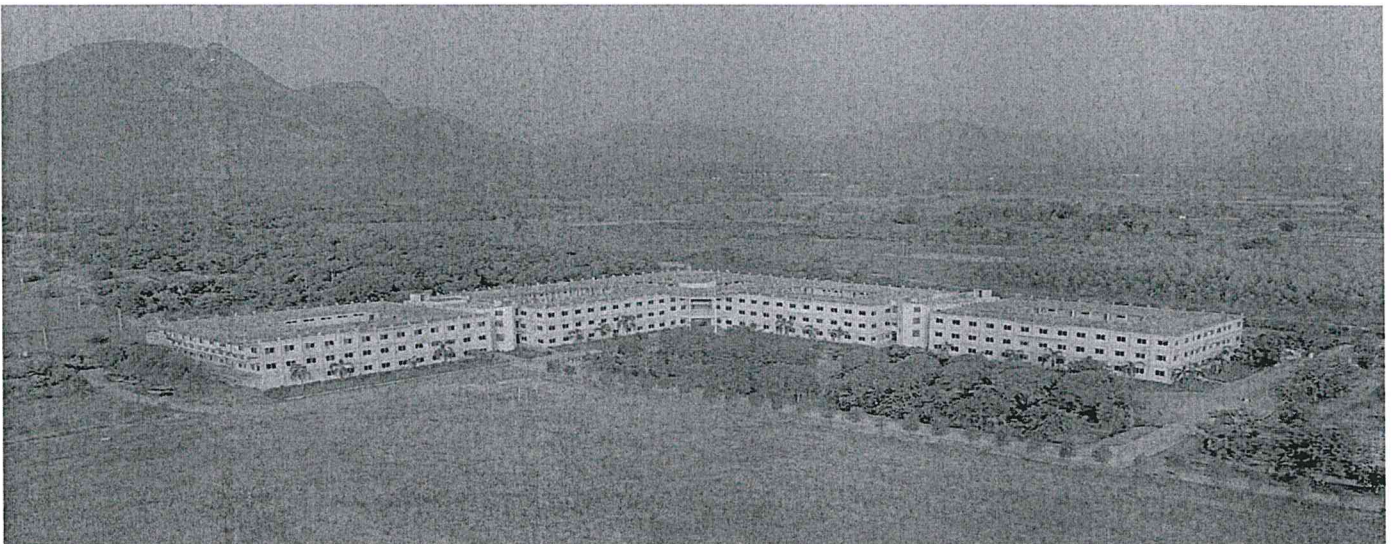
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An ISO 9001:2015 & ISO 14001:2015 Certified Institution

## **7.1.3 Institutional Environment and Energy Initiatives ACTION TAKEN REPORT AND ACHIEVEMENT REPORT**

### **CRITERION 7**

### **INSTITUTIONAL VALUES AND BEST PRACTICES**





## SIDDARTHA EDUCATIONAL ACADEMY GROUP OF INSTITUTIONS

Amidst the picturesque landscapes of Tirupati, nestled in the heart of Andhra Pradesh, lies Siddhartha Educational Academy Group of Institutions, a beacon of academic excellence and innovation. As we stride into the academic year of 2023-2024, we are proud to reaffirm our commitment to not just educational prowess but also to sustainable development through our comprehensive Environment and Energy Initiatives.

At Siddhartha Educational Academy, we understand the pressing need to harmonize our academic pursuits with environmental stewardship. Guided by this ethos, our institution has embarked on a transformative journey towards sustainability, driven by a multifaceted approach that encompasses both environmental conservation and energy efficiency.

Our Environment and Energy Initiatives for the academic year 2023-2024 are poised to make significant strides in reducing our ecological footprint while fostering a culture of sustainability within our academic community. Through a series of innovative programs and initiatives, we aim to create a holistic learning environment that not only nurtures intellectual growth but also instills a deep sense of environmental responsibility in our students, faculty, and staff.

From the implementation of green technologies and renewable energy solutions to the promotion of eco-friendly practices and initiatives, Siddhartha Educational Academy is committed to leading by example in the realm of environmental sustainability. By integrating sustainability principles into every facet of our institution, we endeavor to inspire the next generation of leaders to become catalysts for positive change in their communities and beyond.

As we embark on this journey towards a greener and more sustainable future, we invite you to join us in our quest to make a meaningful difference in the world. Together, let us chart a course towards a brighter tomorrow, where education and environmental stewardship converge to create a better world for generations to come. Welcome to Siddhartha Educational Academy Group of Institutions, where excellence meets sustainability, and where the future begins today.

**ACTION TAKEN  
REPORT  
2023-2024**

## Executive Summary

This report details the achievements of SEAGI in implementing the recommendations outlined in the recent environmental audit. The focus areas include promoting water conservation, enhancing energy efficiency, and fostering a sustainable campus environment. The report outlines the actions taken, current status, timelines for completion, and responsible teams for each initiative.

### Introduction:

This report outlines the actions taken in response to the recommendations provided in the green energy audit for SEAGI. The focus is on improving energy and water efficiency, promoting sustainable practices, and reducing the institution's environmental footprint.

### Recommendations:

#### 1. Install sensor-based water fixtures:

- **Description:** Replace traditional faucets and taps with sensor-activated fixtures to minimize water waste in restrooms, common areas, and kitchens.
- **Action Taken:**
  - A requisition has been submitted for the procurement of sensor-based water fixtures. (MAY 2024)
  - Quotes have been obtained from potential vendors. (JUNE 2024)
  - Selection of the vendor and finalization of the purchase order are underway. (AUGUST 2024)
- **Responsible Person/Team:** Maintenance Department, Procurement Department
- **Status:** In Progress
- **Timeline:** Installation to be completed by OCT 30, 2024

#### 2. Install energy & water consumption meters:

- **Description:** Install meters to monitor real-time energy and water consumption in key areas like interior common areas, lighting, air conditioning, and separate meters for interior and HVAC applications.
- **Action Taken:**
  - Identified locations for meter installation based on the audit recommendations. (MAY 2024)
  - Contacted vendors specializing in smart metering solutions. (JUNE 2024)
  - Awaiting technical specifications and cost proposals from vendors. (AUGUST 2024)
- **Responsible Person/Team:** Sustainability Committee, Facilities Department
- **Status:** In Progress
- **Timeline:** Meters to be installed by OCT 31, 2024

#### 3. Upgrade interior common area lighting:

- **Description:** Replace existing lighting in common areas, including stilt and basement parking, with energy-efficient LED fixtures.
- **Action Taken:**
  - Conducted a lighting audit to assess the current system and identify potential savings with LED upgrades. (MAY 2024)
  - Cost estimates are being prepared based on the audit findings. (JULY 2024)
- **Responsible Person/Team:** Sustainability Committee, Facilities Department
- **Status:** In Progress
- **Timeline:** Upgradation plan to be finalized by OCT 30, 2024. Implementation by December 2024.

#### 4. Review air conditioning usage:

- **Description:** Analyze air conditioning usage patterns and explore opportunities for optimization. This may involve setting temperature controls, scheduling operation times, and considering alternative cooling solutions.

- **Action Taken:**
    - Initiated discussions with the Facilities Department to review air conditioning settings and identify areas for improvement. (OCT 2024)
    - Exploring options for implementing a smart building management system to optimize HVAC operations. (NOV 2024)
  - **Responsible Person/Team:** Sustainability Committee, Facilities Department
  - **Status:** In Progress
  - **Timeline:** Develop an action plan for optimizing air conditioning use by DEC 30, 2024.
5. **Update basic requirement amenities within 1 km radius:**
- **Description:** While this recommendation is beyond SEAGI's direct control, the report acknowledges the importance of having essential amenities like a pharmacy, grocery shop, bakery, restaurant, hardware store, supermarket, and hospital within a close proximity to promote sustainable practices by reducing car dependency among students and staff.
  - **Action Taken:**
    - A list of existing amenities within a 1 km radius of the campus will be compiled. (JULY 2024)
    - The possibility of collaborating with local businesses to encourage setting up shops that cater to the student and staff community will be explored. (AUGUST 2024)
  - **Responsible Person/Team:** Sustainability Committee, Administration Department
  - **Status:** Planning Stage
  - **Timeline:** Initial assessment and exploration by OCT 31, 2024
6. **Install artificial lighting in required campus places:**
- **Description:** Strategically install energy-efficient artificial lights in specific areas on campus that require illumination during the night, promoting safety and security.
  - **Action Taken:**
    - A campus lighting audit will be conducted to identify areas needing additional lighting. (JUNE 2024)
    - Based on the audit findings, a plan for installing energy-efficient fixtures will be developed. (OCT 2024)
  - **Responsible Person/Team:** Sustainability Committee, Facilities Department
  - **Status:** Planning Stage
  - **Timeline:** Develop lighting plan

# Institutional Environment Initiatives

## Introduction:

This report details the actions taken by Siddhartha Educational Academy Group of Institutions (SEAGI), Tirupati, to address waste management practices as outlined in the institutional environment initiatives.

## Paper Waste:

- **Action:** Implemented a double bin system throughout the campus, with clearly labeled bins for paper waste, recyclables, and general waste.
- **Action:** Initiated digital communication to minimize paper usage.
- **Action:** Partnered with RM COMPUTERS for regular collection and processing of paper waste.

## Plastic Waste:

- **Action:** Instituted a ban on single-use plastic items on campus, including cups, straws, and bottles.
- **Action:** Encouraged reusable water bottles to all students and staff.

## E-Waste:

- **Action:** Developed a comprehensive policy for responsible disposal of e-waste generated within SEAGI. The policy outlines procedures for identifying, collecting, storing, and transporting e-waste to authorized recycling facilities.
- **Action:** Partnered with RM COMPUTERS for safe and responsible e-waste recycling.

## Metal Waste:

- **Action:** Established a designated collection system for scrap metal generated from workshops and laboratories. Collected scrap metal is stored securely until a sufficient quantity accumulates for responsible recycling.

# ACHIEVEMENT REPORT

## **Green/Environmental Audits**

- Institution has initiated sustainable environmental measures.
- We conducted internal environmental audits in 2023-2024 to assess our environmental footprint and identify areas for improvement.
- An external environmental audit was conducted by GREEN ENERGY CREATIVE SOLUTIONS in 2023-2024. The audit provided valuable recommendations that we have actively incorporated into our environmental management plan.

## **Energy Audits**

- We conducted energy audits in 2023-2024 to evaluate our energy consumption patterns and identify opportunities for optimization.
- Based on the audits, we have implemented several energy-saving measures, including:
  - Replacing traditional lighting with LED fixtures throughout the campus.
  - Installing energy-efficient appliances in buildings.
  - Promoting energy conservation awareness campaigns among students and staff.

## **Clean and Green Campus Initiatives**

- SEAGI maintains a clean and green campus environment through various initiatives:
  - Extensive tree plantation drives are conducted annually to increase green cover.
  - We have a well-maintained waste management system that promotes waste reduction, reuse, and recycling.
  - Water conservation measures are implemented, such as rainwater harvesting and usage of low-flow faucets.

## **Beyond Campus Environmental Promotion Activities**

- SEAGI actively participates in environmental awareness campaigns and workshops beyond the campus.
- We organize community outreach programs to educate the public on environmental issues and promote sustainable practices.
- Collaborations with local environmental NGOs are fostered to contribute to broader environmental conservation efforts.



**PRINCIPAL**

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