



E.M.P

Energy Management Plan

Overview



Establish an Energy Team

- **Form a dedicated team:** Include administrators, teachers, maintenance staff, and students.
- **Appoint an Energy Manager:** This person will oversee the implementation and progress of the plan.



Conduct an Energy Audit

- **Assess current energy usage:** Identify areas where energy is being wasted.
- **Benchmark performance:** Compare your school's energy use with similar institutions.



Set Goals and Objectives

- **Define clear, measurable goals:** For example, reduce energy consumption by 10% within the first year.
- **Develop specific objectives:** Such as upgrading lighting systems or improving insulation.

Create an Action Plan

- **Lighting:** Replace incandescent bulbs with energy-efficient LED lights.
- **HVAC Systems:** Upgrade to high-efficiency heating, ventilation, and air conditioning systems.
- **Schedules:** Control building systems with set back in off hours



Implement Behavioral Changes

- **Educate and engage:** Conduct workshops and campaigns to raise awareness about energy conservation.
- **Involve students:** Create energy-saving competitions and projects to encourage student participation



Monitor and Evaluate Progress

- **Track energy usage:** Use energy management software to monitor consumption.
- **Regular reviews:** Hold quarterly meetings to review progress and make necessary adjustments.



Recognize and Reward Achievements

- **Celebrate successes:** Acknowledge the efforts of students and staff in achieving energy-saving goals.
- **Provide incentives:** Offer rewards for significant contributions to energy conservation.



Continuous Improvement

- **Update the plan:** Regularly revise the energy management plan based on new technologies and feedback.
- **Stay informed:** Keep up with the latest energy-saving practices and technologies.

Current EUI

Building EUI		
Building Name	Lakewood High School	
Enter Weather Normalized Site EUI	51	kBTU/SqFt
Enter the building's EUI goal	44	kBTU/SqFt
EUI reduction to meet goal	7	kBTU/SqFt
Gross Floor Area	168,922	SqFt
Annual Energy Use	8,615,022	kBTU/Year

Estimated Energy Consumption per Fuel	
Assuming 100% Electric	2,524,919 kwh/yr
Assuming 100% Gas	86,150 therms/yr

Annual Reduction Needed to Meet Goal			
Total Energy	1,182,454	kBTU/yr	14%
Fuel Reduction Scenarios			
Electric	346,557	kwh/yr	14%
OR Natural Gas	11,825	therms/yr	14%

After Planned Upgrades EUI

Building EUI		
Building Name	Lakewood High School	
Enter Weather Normalized Site EUI	48.6	kBTU/SqFt
Enter the building's EUI goal	44	kBTU/SqFt
EUI reduction to meet goal	4.6	kBTU/SqFt
Gross Floor Area	168,922	SqFt
Annual Energy Use	8,209,609	kBTU/Year

Estimated Energy Consumption per Fuel	
Assuming 100% Electric	2,406,099 kwh/yr
Assuming 100% Gas	82,096 therms/yr

Annual Reduction Needed to Meet Goal			
Total Energy	777,041	kBTU/yr	9%
Fuel Reduction Scenarios			
Electric	227,738	kwh/yr	9%
OR Natural Gas	7,770	therms/yr	9%

Improvement of 2.4 to the EUI