

Anna Maria College reduces emissions with Siemens energy-efficient solutions

Background

Located in Paxton, Massachusetts, Anna Maria College is a signatory of the American College & University Presidents' Climate Commitment. By signing the commitment, the college has pledged to eliminate its campus net greenhouse gas emissions and to integrate sustainability into the curriculum and educational experience. Anna Maria College recently partnered with Siemens Industry, Inc., as part of its commitment.

Objectives

In addition to working toward the goal of climate neutrality, Anna Maria College needed a comprehensive, turnkey solution to replace some aging equipment within its 275,000 square foot facilities.

Solutions

To help the college reduce emissions and replace aging, inefficient equipment, Siemens is implementing:

- Lighting retrofits and occupancy sensors
- Water conservation upgrades
- PC power management strategies and equipment
- Vending machine controls
- New kitchen exhaust controller
- New domestic hot water systems
- Variable frequency drives
- New energy management system

Additionally, Siemens is making a variety of building envelope improvements to help reduce emissions and improve the overall efficiency of the college facilities.

Results

By Siemens estimates, these solutions will combine to reduce Anna Maria College's CO2 emissions by approximately 1.3 million tons annually—the equivalent of taking 110 vehicles off the road every year or preserving 4.2 acres of forest.

A tax-exempt capital lease (Mass Development) has made this project a reality for the college. Siemens estimates that Anna Maria College's annual energy savings will exceed \$180,000. These savings are guaranteed to the college through a performance contract with Siemens.

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2/11 Part# 153-EES-725
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