

Camp Stella Maris Seeks to Improve its Energy Efficiency



Challenge

Camp Stella Maris wanted to identify potential energy efficiency measures to increase the energy efficiency of its buildings with the highest opportunities.

Solution

- Buildings with the highest opportunities for efficiency improvements were selected
- NYSP21 utilized a re-tuning technique to conduct high-level energy assessments of Camp Stella Maris' buildings.

Results

- Upgrades in heating and cooling equipment, as well as insulation and air sealing, will help reduce expenses during peak seasons.
- Implementing energy efficiency measures can minimize energy expenses.

Camp Stella Maris

Camp Stella Maris (CSM) is a premier summer camp located in Rochester, NY. Its doors have been open since 1926, but during the 2020 summer season, the camp was forced to remain closed due to the coronavirus pandemic. Summer programs generate 89% of CSM's annual income and the closure caused significant financial losses for the fiscal year. To combat the losses, CSM sought to improve energy efficiency to decrease operational costs and become a more sustainable business.

Challenge

Camp Stella Maris requested assistance from New York State Pollution Prevention Institution (NYSP21) to assess and identify energy efficiency measures (EEM) that could be implemented to help reduce CSM's energy requirements. The objective of this project was to review energy usage in camp-owned and operated buildings, identify EEMs, and estimate the approximate payback period for the implementation of higher-cost EEMs.

Solutions

NYSP2I reviewed utility bills and performed high-level building assessments on four buildings. The assessment included a review of the building envelope, lighting, office equipment, indoor environmental conditions, hot water, building use schedule, and HVAC.

NYSP2I used a re-tuning technique to address the energy inefficiencies at CSM. This was done by completing walkthroughs of each of the buildings. The visual observations paired with the energy use analysis enabled the NYSP2I team to identify EEMs that could be implemented. Some of the EEMs identified are inexpensive and easy to implement, and others are more expensive. Preliminary payback periods were calculated for the more expensive EEMs.



The Wegman House at Camp Stella Maris



Peggy's Cafe at Camp Stella Maris

Results

The analysis performed by NYSP2I led to the identification of several EEMs which could be implemented at CSM. Some of the low-cost EEMs identified included air sealing, weather stripping upgrades/replacements, insulation upgrades for buildings and plumbing fixtures, and plumbing repairs on fittings/check valves. Other more expensive EEMs identified included boiler replacements/upgrades and air conditioner replacements/upgrades. Camp Stella Maris can maximize energy savings by implementing as many EEMs as possible.

Partners



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