

# SolarOne® Campus: Mass Maritime Academy

*"The SolarOne lighting really has met all of our requirements." said Hansen "They're attractive, they provide a good light for our students in the areas we wanted, and they haven't added to the expense of operations on the campus."* - Allen Hansen, Massachusetts Maritime Academy

## Issue

When the students at the Massachusetts Maritime Academy were surveyed about campus conditions and improvements, they pointed to the poor lighting. An old assortment of low pressure sodium fixtures and overbearing flood lights, left the campus spotty, dark and poorly lit. Instead of adding safety, the old lighting created isolated pools of glare between dark areas. With no underground power conduits along the campus pedestrian paths, installing grid-tied lights would be costly and disruptive.

## Decision

Ming-Jay Shiao of Solar Design Associates was the Specifying Engineer who advised the school to employ the SolarOne® Solutions light fixtures. The easily installed PV-powered lights were readily and economically placed along walkways and around the dormitories, which previously had no site lighting.

## Results

Allen Hansen, VP of Operations, said the project helps students think about how they use energy. "When you walk down that area at night time, it really gives you a feeling of comfort and safety. And, we like the LED lighting" said Hansen. The long-lasting LED lights significantly reduce maintenance, and perform well in cold temperatures. The light's solar panels are positioned to shed snow, and SolarOne's proprietary SOBright ® Technology, which manages brightness and adapts to low power conditions, ensures that facilities are never left in the dark, even in the darkest days of winter and during extended cloudy periods

The controller also includes "Snow Cover Protection," a feature that overrides the system's photo control to ensure that lights remain off during the day and resume at night even if the panel is covered with snow. Meanwhile, the tilt and orientation of the panels ensures that snow slides off them, without intervention.

## Deciding Factors

- Reduced Energy Costs
- Improved visibility and light quality
- Provides immediate savings on installation (Avoided trenching and wire)
- Smart Controls maximize solar and adapt in tough winter conditions

## Project Spotlight

**What:** Campus Site Lighting

**Where:** Buzzard's Bay, MA

**When:** 2011

**Details:** 60 Lighting Systems including decorative pedestrian and shoebox parking lot lights



Before



After