



Guide to:
Building / Shelter
Lighting
Presented by:



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Introduction

Building structures require lighting to provide security to people using the building. The buildings can include pavilions, mailbox clusters, restrooms, etc. and can be located in remote areas where electric is not readily available. Making sure the area is properly lit will ensure the safety of users after sunset.

Different lighting levels, patterns of distribution, controls, operation and other types of lighting needs should be gathered before purchasing the lighting. This eBook will explain the why's, where's and how's of building structure lighting. By the end of this eBook you will have a better understanding of lighting of different types of building structures and their requirements, and how solar lighting can fit remote building structure lighting requirements with ease.

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Why to implement

Building structures provide shelter from the elements or a place of refuge. Lighting these structures at night will allow the use of the structure after dark. The benefit of lighting different types of building structures includes:

- Parks and other gathering places can stay open later
- Aid security and police protection
- Improve safety of people using the structure



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Where to implement

Parks

Parks provide a great gathering place for social events. Most parks have pavilions and restrooms on site. Making sure proper lighting is provided for later gatherings and inside closed buildings provides safety and functionality of these types of buildings.



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Where to implement

HOAs

A lot of HOAs have pavilions and mailbox structures. These structures are used by residences of the HOAs and require lighting for safety and security. The lights can be operated by motion detectors to reduce the electrical usage and be efficient.



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Where to implement

Bus Stops / Shelters

Bus stops and bus shelters provide shelter and information for those waiting for transit. Since a lot of busses run after dark, it is imperative for the safety of travelers to have proper lighting at these structures.



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How to implement

High powered LED fixtures can be used to provide optimum lighting levels for the application. SEPCO works with Hubbell Outdoor Lighting to provide different distribution patterns for every project maximizing the light output of each fixture.

Since uniformity is key, creating a lighting layout for the application will provide the necessary information on the number and type of fixture required for the needed luminance for visibility.



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Solar Building / Shelter Lighting Benefits

Solar lights that are in production for commercial applications such as pavilions, mailbox clusters, restrooms, bus stops and bus shelters, etc. have a higher up front cost, but they will pay for themselves immediately when looking at the total costs on installation for new construction. These systems provide lighting for specific applications with different run time



settings. They also provide many days of stored power to provide continuous reliability, even during times of inclement weather.

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Solar Building /Shelter Lighting Benefits



Each system is built for the type and wattage lamp that will be utilized for the specific application. A

large pavilion will take much more power than lighting a small bus stop area. That makes the commercially manufactured solar lights more versatile to adapt from one job to the next. They range from small one LED fixture that runs along a home's driveway to powerful street lights that can illuminate a 150' area.

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Solar Building /Shelter Lighting Benefits

Solar lighting also has many excellent qualities. It is a green alternative to traditional lighting, it is low cost and practically maintenance free, and there is no power bill associated with utilizing solar since the power is not coming from the grid. Solar is also low voltage which makes it much safer to install and operate. Finally, solar lighting is renewable and promotes sustainability; its only requirement is the sun for operation.



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