



Guide to:

# Street Lighting

Presented by:



# Table of Contents:

|                                    |    |
|------------------------------------|----|
| Introduction to Street Lighting    | 3  |
| Why to Implement Street Lighting   | 4  |
| Where to Implement Street Lighting | 5  |
| How to Implement Street Lighting   | 7  |
| Solar Street Lighting Benefits     | 10 |

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Introduction

When you think of street lighting, you may only think of one type or another. Streets can be on major areas such as freeways and highways. Others are local roads, alleyways, sidewalks, intersections, bikeways, and medians. All types of street areas need proper lighting to ensure the safety of the people using them.

Different lighting levels, patterns of distribution, light pollution, and type of lighting needs to be taken into account when providing street lighting. This eBook will explain the why's, where's and how's of street lighting. By the end of this eBook you will have a better understanding of lighting of different types of streets and their requirements, and how solar lighting can fit street lighting requirements with ease.

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Why to implement

Street lighting produces quick, accurate and comfortable visibility at night. Street lighting also safeguards, facilitates and encourages vehicle and pedestrian traffic. By providing good visibility also provides social and economic benefits such as:



- Reduction in night accidents
- Aid security and police protection
- Improve the flow of traffic
- Promote business and use of public facilities at night

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Where to implement

## ***Freeway / Expressway***

Roadways with greater visual complexity and higher traffic volumes require brighter lighting than rural roads. Since these are usually found in metropolitan areas, there is typically more light pollution from surrounding areas.



Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)



# Where to implement

## ***Local Roadways***

Local roadways provide access to residential, commercial, industrial and other types of property in a city or town. The lighting needs are lower than freeways, but still need adequate lighting for safety of vehicles and pedestrians. These roads typically cater to bike lanes and sidewalks as well as vehicles.



Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# 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.

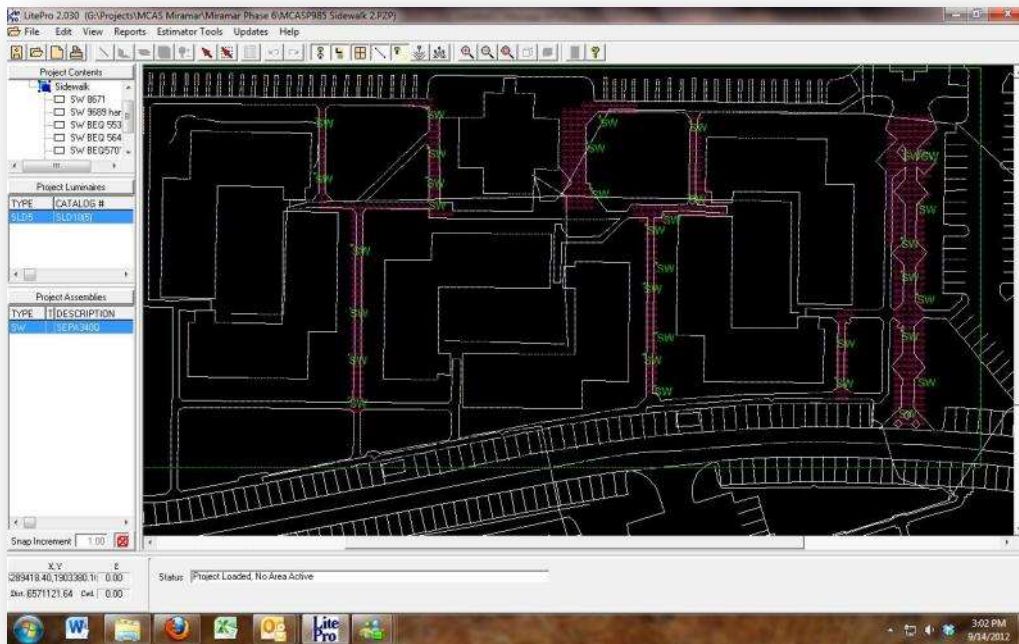


Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# How to implement



The lighting layout will also ensure the proper number of fixtures are provided and spacing needed between fixtures to provide even illumination. Lighting companies can provide lighting layouts that utilize the type of fixture, distributions of the light pattern, and wattage of the lamp to ensure the lights will fit the needs of the customer.

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)



# How to implement

Since solar powered street lights are self contained, installation will be a snap. Setting the poles, installing the solar power assembly and light fixture with bracket will take less time and will not require additional trenching. This saves on costs and allows for the lighting to be implemented more quickly.



Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Solar Street Lighting Benefits

Solar lights that are in production for commercial applications such as streets, roadways, pedestrian walkways, 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.

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Solar Street Lighting Benefits



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

Lighting a multilane roadway will take much more power than lighting a small pathway. 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.

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# Solar Street 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.



Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)

# HAVE A STREET THAT NEEDS LIGHTING?

Contact Us  
Today!

**One of our solar specialists  
would be happy to help you  
choose the best option for  
your street lighting needs  
and provide clean,  
renewable solar energy!**

See How Solar  
Lighting Can  
Save You Money

**OR**

Check Out  
An Amazing  
Case Study

Share this eBook!



Guide to Street Lighting  
[www.sepco-solarlighting.com](http://www.sepco-solarlighting.com)