



**A TYPICAL WAREHOUSE WOULD NEED TO LEASE AN ADDITIONAL 1,072 SQ FT OF SPACE ANNUALLY TO EQUAL THE MONEY SAVED BY UPGRADING TO LED LIGHTING\***

Not only can warehouse facilities save energy by using energy efficient equipment, but there are additional positive effects on the overall revenue and environment of the facility. Research shows by upgrading to energy efficient lights the following benefits occur:

- Enhanced worker and customer comfort, safety and satisfaction
- Lowered maintenance costs
- Increased worker productivity
- Decreased equipment failure
- Decreased inventory stocking cost

\* Based on 2017 DNV GL study

**“BEYOND THE ENERGY SAVINGS, LED PARKING LOT LIGHTS IMPROVE SAFETY, ENHANCED LIGHT QUALITIES AND SIGNIFICANTLY REDUCE LABOR COSTS ASSOCIATED WITH REPLACING BURNED OUT LAMPS”**

**- Steven Leuty, Property Coordinator, Bronson Facility Planning and Development**

Consumers Energy offers rebates, technical services and more to help warehouses like yours become more energy efficient. Our team is here to walk you through the program requirements and available resources.

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# Warehouses

## Hidden Benefits of Energy Efficiency



# Energy Efficiency Impacts in Warehouses

The following non-energy improvements can result from upgrading to energy efficient equipment:



## O&M Cost Savings

The longer life of LEDs provides lower maintenance resulting from fewer bulb changes. This means full utilization of the warehouse and employees. When compared to warehouses without energy efficient lighting, cost for maintenance is up to 60 percent higher than facilities with energy efficient lighting.

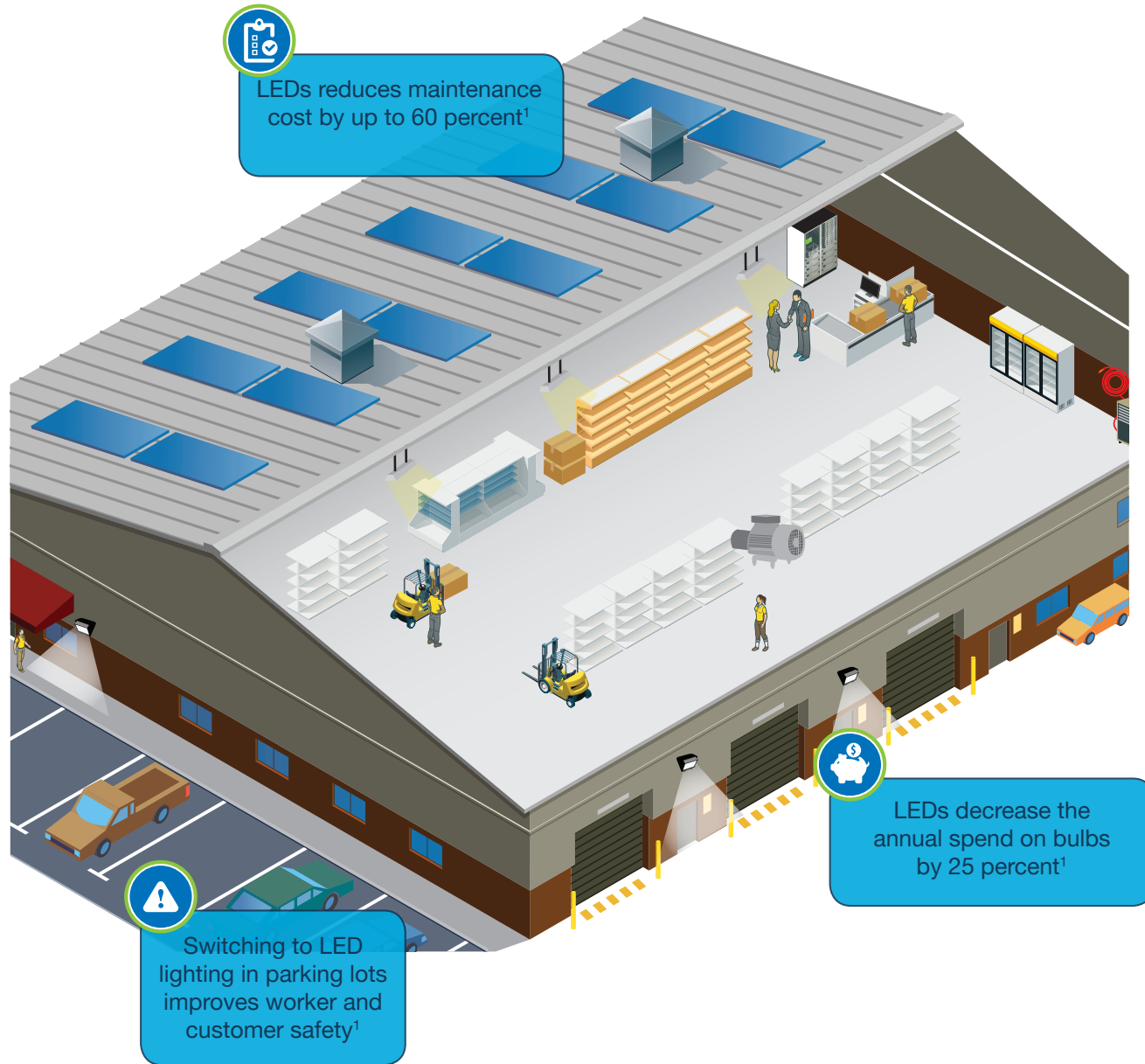


LEDs have a longer life, so warehouses no longer need to purchase as many lighting supplies, reducing costs on bulbs by 25 percent.



## Increased Safety

LEDs improve employee visibility, minimizing the risk of slips and falls. LEDs illuminate parking lots creating a safer atmosphere for night shifts and can also contribute to decreased parking lot theft. Upgrading to an energy efficient HVAC system allows better control of space temperature and improves indoor air quality. This will increase worker comfort and safety by up to 10 percent.<sup>2</sup>



## O & M Cost Savings

Equipment	Energy Savings	Non-Energy Savings	Total Savings	Energy Payback	Non-Energy Payback
Lighting	\$7,158	\$42,072	\$49,230	2.22 yrs.	0.32 yrs.

1. 2014 PowerPoint presentation, Non-Energy Impact Marketing Analysis by Industry, Special Cross Sector Research Area [PPT]. (2014). DNV GL.  
 2. Capturing the Multiple Benefits of Energy Efficiency. (2014). IEA.