

# Intro to LEDs The New Standard in Lighting

By

# LEDs Unlimited LLC



# Who is Seesmart®

- ❑ Seesmart® LED is a clean Tech company that manufactures LED lighting products for commercial and residential applications.
- ❑ Seesmart LEDs are engineered to install into existing infrastructure and make the transition from fluorescents or incandescents simple and cost effective.
- ❑ To date, Seesmart® has the only ETL-approved LED product line designed for true retrofit applications.

# Energy Efficient LEDs

- ❖ LED (light emitting diodes) are solid-state lighting devices that produce light when forward voltage is applied.
- ❖ An LED consists of a semiconductor diode packaged in a clear epoxy or silicon gel.

LEDs will sooner or later sweep away all other forms of lighting, up to and including household lights.



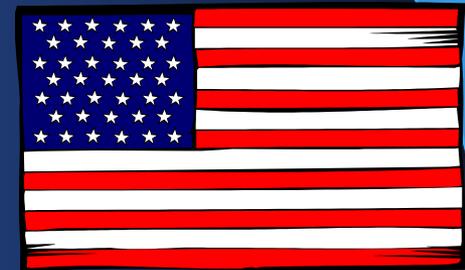
# Seesmart Products



Fluorescent tube replacement

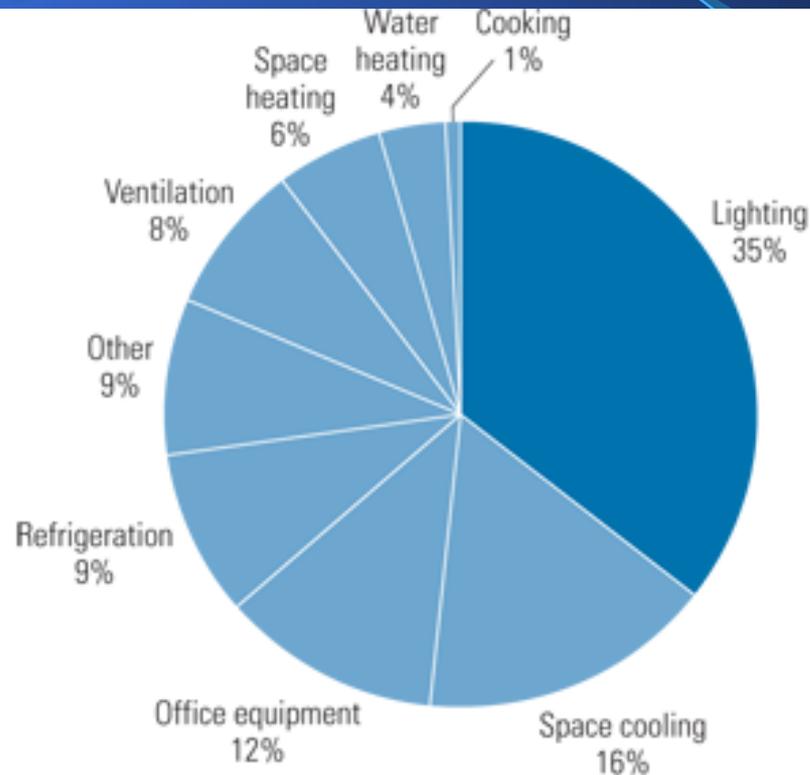


High Bay



Made in the USA

# The biggest cost of lighting is the energy consumed, NOT the bulb.



Courtesy: E SOURCE; data from 2005 Buildings Energy Data Book

# Facts

Important facts to bear in mind when evaluating your current lighting:

- 19% of all electricity produced globally is used for lighting.
- 38% of the electricity used by commercial buildings is used for lighting.
- Incandescent bulbs are being phased out around the world

# Benefits of Seesmart LEDs

- Energy Efficiency
- Maintenance Free
- Longevity
- Superior Performance
- Environmentally Friendly

# Benefits at a Glance



## Long Life

The average lifespan of an LED light is 30,000 hours.



## Low Power

LEDs lights are more than 50% more efficient than CFLs.

90% more efficient than standard bulbs.

50% more efficient than fluorescents

# Benefits at a Glance



## **No Maintenance**

LEDs offer superior efficiency, greater longevity, and require no ballast for operation.



## **Eco Friendly**

LED lighting is more durable, has a longer life span, and is completely recyclable.

# Safety



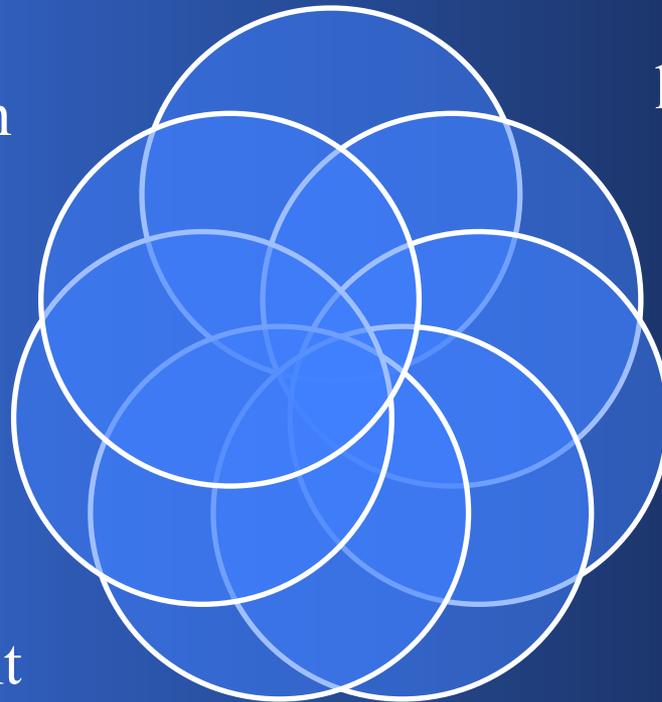
**No Mercury**

No UV Emission

No Lead

Low emitting heat

Shock-resistant



LEDs are solid state lighting devices: they contain no gases, no filaments, and no moving parts to fatigue.

Impact-resistant

Durable: no breakable glass or filaments

# Products

- Tube Lights
- High Bays
- PAR Lights
- Street Lights
- Down Lights
- Household Bulbs
- Low Bay Lights
- Spot Lights

Ceiling Tube

Recessed Lights

Household

High Bay



# Street Lights



# Applications

1. Great for Commercial/Industrial Applications
2. Install into existing infrastructure
3. Instant on/off
4. Silent operation: no flickering or buzzing
5. Reliable
6. Suitable for extreme climates
7. 3- or 5-year limited warranty

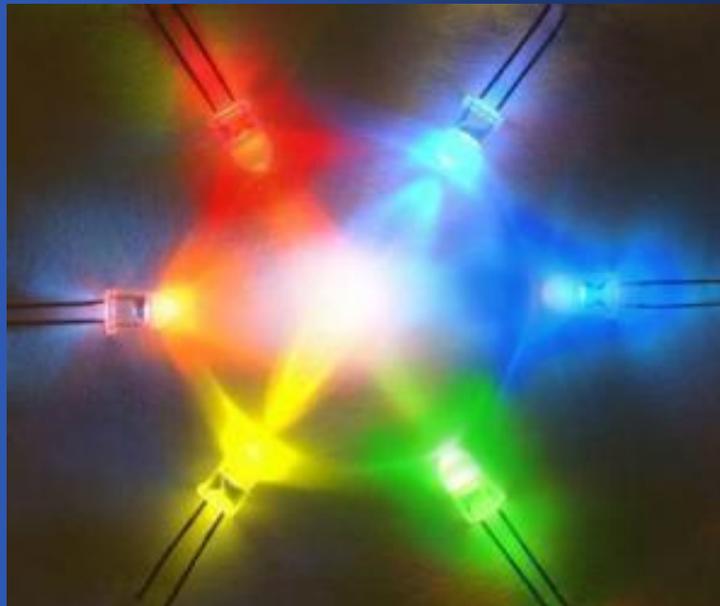
# Cost Savings Example

The Westlake Hyatt (ROI FOR LED)

<b>Total Savings Monthly With LED</b>	<b>5,4047.28</b>
<b>Total Savings Annually with LED</b>	<b>64,887.37</b>
<b>Total Savings over 10 years</b>	<b>648,873.72</b>
<b>Rebate Value</b>	<b>12,506.40</b>
<b>ROI In Months</b>	<b>8.6 months</b>
<b>Total Annual cost to operate existing CFL</b>	<b>71,122.73</b>
<b>Total annual cost to operate future with LED</b>	<b>24,012.29</b>



*If all of the world's light bulbs were replaced with energy-efficient LEDs for a period of 10 years, researchers say it would reduce global oil consumption by 962 million barrels, reduce the need for 280 global power plants, reduce carbon dioxide emissions by 10.68 gigatons, and ultimately result in financial savings of \$1.83 trillion!*



# SUMMARY

## How can we help?

- Meet with our clients to understand their needs .
- Audit the facilities including a review of previous audits which may have been performed .
- Create a report which outlines all current lighting and propose LED replacement products for each existing lighting product .
- Present a customized financial summary showing energy savings, cost savings and return on investment (ROI).
- Explain financing, rebates and tax incentive options .
- Deliver the product!

ARE YOU READY TO REDUCE 60% TO 90%  
OFF THE COST OF LIGHTING?

YES!

RESULTS:

Help your company reduce the energy bill

- Reduce Expenses!
- Increase Profitability!
- WIN-WIN!