



# SYNERGY LIGHTING

"The Nations #1 Source For Lighting Supply & Service"



## Slash Your Lighting Bills In Half!

Retrofit your old fixtures to the new

### Elite-XL

Lighting System



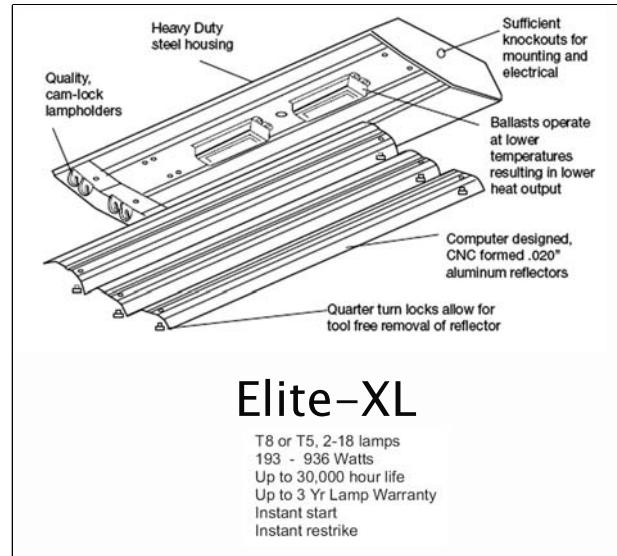
(Metal Halide, High-Pressure Sodium, Mercury Vapor)

## *Lighting and Energy Solutions for Business*



## You decide, here are the facts...

1. Up to 58% energy savings
2. 95% maintained light output over life
3. 20,000 to 30,000 hour average life ratings, 2 to 3 year lamp warranties
4. 5 year ballast warranty
5. Instant On - Instant Restrike (Improved Safety)
6. No Flicker—ballast operates at high frequency
7. Sound Rating A, no hum or buzz, silent operation
8. No Safety or Hazard Issues
9. Very Wide, Even, Light Distribution
10. Exceptional Color Rendering - 5000K 88 CRI Scotopically Enhanced - No Color Shift



## Metal Halide



### HIGH BAY

Metal Halide or HPS  
460 - 1080 Watts  
20,000 hour life  
8 min start up  
15 min restrike



### LOW BAY

Metal Halide or HPS  
460 - 1180 Watts  
12,000 - 20,000 hrs  
8 min start up  
15 min restrike  
Add'l 10% light loss

1. Ballasts burn more than 50 watts over rated lamp wattage
2. Lose 46% of their light output in first year
3. Economic Life of only 60% of rated life of 20,000 hours. No Warranty
4. Warm up times as much as 5 to 10 minutes
5. Restrike times of 15 to 20 minutes
6. Irritating, constant flicker, ballast operates at low frequency
7. Hum and buzz. Sound rated C (greater than 31 decibels)
8. Shifts color after first 1000 hours of use.
9. Large fixtures with concentrated light patterns
10. Safety issue in lamp redundancy and possible explosions.



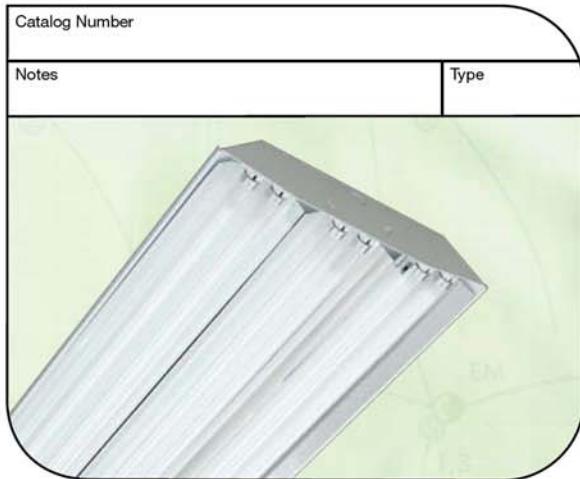
# Elite-XL

## T8 & T5 HO Highbays

Catalog Number

Notes

Type



### Elite Fluorescent High Bay T5 and T8 Series

#### Maintenance

No tools required for lamp and ballast access.

#### Warranty

One year warranty against defect in manufacturing.

#### Installation

Suspension by chain, cable, hook or monopoint with appropriate accessories.

#### Listing

UL/CUL Listed - Suitable for damp locations.

### Application

The Elite's superior lumen package is ideal for replacing traditional metal halide high bay systems. Benefits include high efficiency, 95% lumen maintenance, improved color rendering, extended lamp life, multi-level switching, instant on, dimming and improved uniformity. Suggested mounting heights from 15' - 40' with primary applications including "Big Box" retail, warehousing, commercial facilities, manufacturing facilities, open and stack aisle applications.

### Description

The full body assembly accommodates multiple optics utilizing either T5 or T8 lamps. The Elite's heavy duty 20 gauge housing exceeds code gauge steel and all components are post painted with a glossy, high reflectance white paint. Sockets include secure positioning rotating collars.

### Reflector Optics

The superior beam spread optic covers from narrow aisle lighting to open area general lighting. The Elite is available using a 95% reflectance specular aluminum (SA) Miro<sup>®</sup>4 or a 92% reflectance white aluminum (WA) reflector, which have a 25 year warranty. The reflector options include uplight or non-uplight, depending on the application.

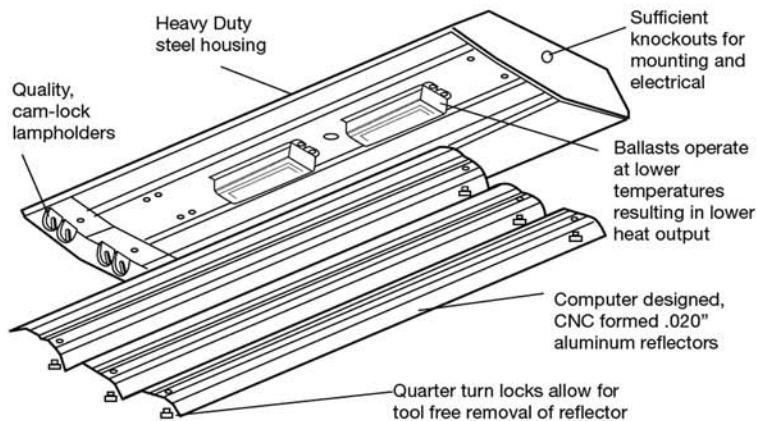
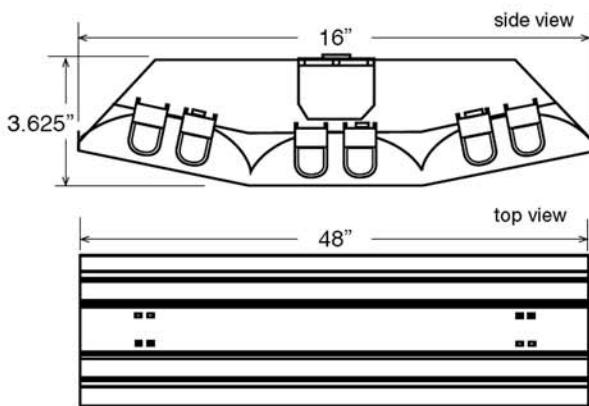
### Electrical

All ballasts are class P rated and UL/CUL listed. Our ballasts are also thermally protected, sound rated and tightly secured by mounting bolts.

### Finish

The baked white enamel finish is electrostatically applied and post painted with a glossy, highly reflective and durable white paint.

### Dimensions & Construction





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# Elite-XL

## Sky bay Mega Light

Catalog Number

Notes

Type



### Sky Bay T5 and T8 Series

**Installation**  
Suspension by cable and hook with Y-Hook through four (4) eyebolts.

**Warranty**  
One year warranty against defect in manufacturing.

**Listing**  
UL/CUL Listed - Suitable for damp locations.

### Application

Sky Bay's superior lumen package is ideal for replacing traditional 1000 watt metal halide high bay systems. Benefits include high efficiency, 95% lumen maintenance, improved color rendering, extended lamp life, multi-level switching, instant on, dimming and improved uniformity. Suggested mounting heights from 20'- 110' with primary applications including warehousing, commercial facilities, manufacturing facilities, open and stack aisle applications.

### Description

This fixture was designed for optimum performance utilizing either T5 or T8 lamps. The Sky Bay's heavy duty 20 gauge housing exceeds code gauge steel and all components are post painted with a glossy, high reflectance white paint. Sockets include secure positioning rotating collars.

### Reflector Optics

The superior beam spread optic covers from narrow aisle lighting to open area general lighting. The Sky Bay is available using a 95% reflectance specular aluminum (SA) Miro® 4 or a 92% reflectance white aluminum (WA) reflector, which have a 25 year warranty.

### Finish

The baked white enamel finish is electrostatically applied and post painted with a glossy, highly reflective and durable paint.

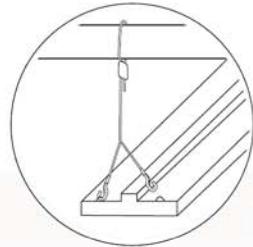
## No Emergency Ballast Available

### Mounting Options

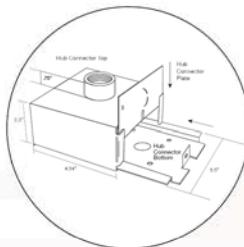
#### Latch Hook Kit



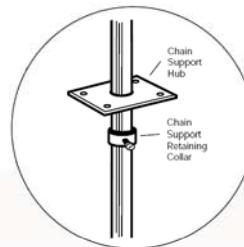
#### YHOOKX10FT



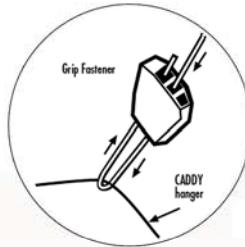
#### Hub Connector



#### 1/2" Pendant Kit | 3/4" Pendant Kit



#### EZHANGER





## WARNING - SAFETY FIRST

Why put your employees and your facility at risk? Look what the three major manufacturers have to say about Metal Halide lamps...

### General Electric –

The arc tube operates under high pressure at very high temperatures – as high as approximately 2012 degrees Fahrenheit. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

### Philips –

These lamps can cause serious skin burn and eye inflammation from short wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. There is a risk of personal injury, property damage, burns and fire.

### Osram Sylvania –

Metal Halide arc tubes operate at high pressure (up to 50 p.s.i.) and at very high temperatures and can unexpectedly rupture due to internal causes or external factors such as a ballast failure or misapplication. There is a risk of personal injury, property damage, burns and fire.

### **18 Burned by faulty gym lighting**

Wednesday, September 14, 2005

COLUMBIA, Tennessee (AP) — A malfunctioning light bulb in a school gym exposed more than 100 people to short-wave radiation for an hour, sending 18 people to the hospital with severe sunburns and swollen eyes.

The incident occurred during a September 11 memorial event held Friday at the Baker Elementary School in Columbia. Attendees, many of whom were military veterans, said they started to feel symptoms soon after the event began.

"While I was sitting in the auditorium, my forehead started itching real bad," said Fred Young, 73. "When I got home I looked into the mirror and my face looked real red."

Most victims were older adults who were sitting together under the broken lamp. No children were admitted to Maury Regional Hospital, according to Dr. David Turner.

Dr. Michael Richardson, another emergency room doctor, said the symptoms, similar to overexposure from a tanning bed, were produced by a radiation leak from a halide bulb. The bulbs, commonly used in gyms, are designed with a special membrane that blocks the UV rays, but occasionally the membranes break.

The gym was closed during the weekend and by Monday morning the bulb was removed, according to Director of Schools Eddie Hickman.

**Elite-XL retrofits eliminate the need for protective measures, while saving energy dollars and improving light quality**





## Seeing the difference makes all the difference!



**Before**

**Load Data**

|                          |          |
|--------------------------|----------|
| Fixture Quantity         | 510      |
| Input Watts Each Fixture | 465W     |
| Total System Input Watts | 237,150W |
| System Kilowatts         | 237.15KW |
| Amps (at 277v)           | 856.14A  |

**Fixture Data**

|                    |                             |
|--------------------|-----------------------------|
| Rated Lamp Wattage | 400W                        |
| Fixture Type       | High Bay Aluminum Reflector |
| Lamp Type          | Pulse Start Metal Halide    |
| Mounting Height    | 28.5ft                      |
| Spacing            | 20' x 16.5'                 |

**Light Level**

35 foot candle average, measured 3ft above floor

**Operational Costs**

Cost to Operate for 1 Year  
(8760 hours at .05 per KWh) **\$103,862**



**After**

**Load Data**

|                          |          |
|--------------------------|----------|
| Fixture Quantity         | 510      |
| Input Watts Each Fixture | 228W     |
| Total System Input Watts | 116,280W |
| System Kilowatts         | 116.28KW |
| Amps (at 277v)           | 419.78A  |

**Fixture Data**

|                    |                              |
|--------------------|------------------------------|
| Rated Lamp Wattage | 256W (8x32W-T8)              |
| Fixture Type       | T8 SBay                      |
| Lamp Type          | T8 SCB 5000K                 |
| Mounting Height    | 28.5ft                       |
| Spacing            | 20'x16.5' (Same as original) |

**Light Level**

46 foot candle average

**Operational Costs**

Cost to Operate for 1 Year (8760 hours at .05 per KWh)  
**\$50,930.64**

Project Completed in December 2002

## ***Lighting and Energy Solutions for Business***

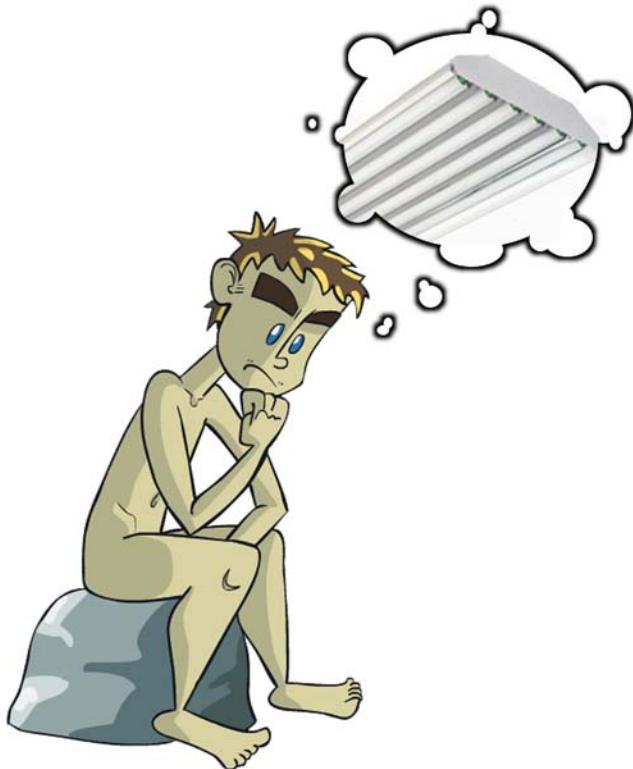


# SYNERGY LIGHTING

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## Synergy Lighting - "In The Air" Program



If You Are "Not Sure" that our New Technology Lighting Systems Will Work For You...

Our exclusive, "**IN THE AIR**" sample program allows you to test it in your facility without risk!

### Here is how it works!

1. A Synergy Account Manager will select the product that is best for your facility/application
2. A Sales Order will be processed to allow shipment of the new technology for your installation and approval process.
3. The invoice will have a special notation on it stating "In The Air Program", this allows to you install the new technology product as a test for a period of 20 days.
4. At the end of the pre-set time period, if the product works as you expected, simply pay the invoice. If the product does not work as you expected, simply call your Account Manager for return instructions. **You will owe nothing** if the product does not meet your expectations and is returned in salable condition.

***Lighting and Energy Solutions for Business***

# Is Our Solution Right For Your Facility?

## **Here's how to get started:**

We have developed a specific set of questions that will help us qualify and analyze your existing system. By filling out the questions below we can provide a very detailed analysis of your existing system to enable you and your people to make an educated fact based decision. It is important to that our clients have enough information, supported by facts, to make this very important decision.

|  |  |
|--|--|
| 1. How many shifts does your facility operate?<br>a. One<br>b. Two<br>c. Three   | 12. Do you pay demand charges on your electric bill?<br>a. Yes<br>b. No<br>c. Not sure   |
| 2. How many total hours do the lights operate...<br>a. Per Year _____<br>b. Per Week _____<br>c. Per Day _____   | 13. If you were to do the project, would your people install the new fixtures?<br>a. Yes<br>b. No, provide labor with proposal             |
| 3. Does your facility shut down for extended periods of time?<br>(When lights would likely be turned off)<br>a. Yes (please explain) _____<br>b. No  | 14. If no, is there someone you prefer we work with?<br>_____  |
| 4. Is the building...<br>a. Leased?<br>b. Owned?   | 15. Any special complaints or deficiencies about your present lighting system?<br>a. Yes _____<br>b. No                                    |
| 5. If leased do you pay the electric bill?<br>a. Yes<br>b. No  | 16. What is:<br>a. Spacing of existing fixtures? _____<br>b. Mounting Height of existing? _____  |
| 6. What Fixture Type are you using now?<br>a. High Bay      b. High Bay with Lense<br>c. Low Bay      d. Prism Bay   | 17. What is the operating voltage of your existing lighting system?<br>a. 120v              b. 277v<br>c. 480v              d. Other _____ |
| 7. What Lamp Type are you using now?<br>a. Mercury Vapor (bluish green color) _____ watt<br>b. Metal Halide (white, blue, pinkish) _____ watt<br>c. HPS (amber or orange color) _____ watt | Contact _____<br>Business _____<br>Address _____<br>City, St. Zip _____<br>Phone _____<br>Fax _____<br>Email _____                         |
| 8. How are your fixtures mounted?<br>a. Hook, Cord Plug<br>b. Rigid Stem—Direct wired<br>c. Other _____  |  |
| 9. Quantity of existing Fixtures _____   |  |
| 10. Who is your electric utility provider? _____   |  |
| 11. What do you pay per KWH? _____   |  |

## ***Lighting and Energy Solutions for Business***



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## POWER COMPANY REBATES AVAILABLE!

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Synergy Lighting is the only Lighting Company in S.W. Florida that is a registered trade ally and authorized to perform rebates for FP&L customers!



### How do I get FPL to help pay for new lighting?

1. Call Synergy Lighting at 941-756-4844
2. Synergy will perform a No-Charge Feasibility Study of your business/facility
3. We will identify target areas of savings and establish where energy can be reduced
4. Synergy will submit all paperwork for your rebate and get an FPL "Pre-Approval"
5. Our team of certified installers will perform the lighting retrofit
6. FPL will perform a supervisory inspection of the work performed

***Lighting and Energy Solutions for Business***



## Tax Deductions for Commercial Buildings

Under the Energy Policy Act of 2005 (EPAct), you can take advantage of tax deductions of up to \$1.80 per square foot for the certified use of qualifying energy-efficient technologies in both new construction or renovation applications.

These deductions reward the use of specific energy-efficient lighting and building envelope products that increase a building's energy efficiency by 25-40% compared to the ASHRAE 90.1-2001 standard. This benchmark was established in 2001 by the American Society of Heating, Refrigeration, and Air Conditioning Engineers to measure the watts per square foot used by various systems in commercial buildings. Because this standard was established before many newer, energy-efficient technologies became available; it can be relatively easy to qualify for EPAct 2005 tax deductions.

- *Lighting, HVAC/hot water systems and other building envelope products help a building qualify for this tax deduction.*
- *A one-time, whole building tax deduction of up to \$1.80 per square foot is available for a lighting, HVAC/hot water, and building envelope upgrade.*
- *A partial \$0.60 tax deduction is available for an upgrade of any one system (lighting, HVAC, and building envelope products) that surpass the ASHRAE 90.1-2001 standard by 25-40%.*
- *These tax deductions are available for all property placed in service between January 1, 2006 and December 31, 2007.*

### The Lighting Tax Deduction

Did you know that lighting represents as much as 40% of your entire electricity bill? And chances are, your building or facility uses outdated lighting that doesn't meet the ASHRAE 90.1-2001 standard set by the Energy Policy Act of 2005.

Lighting is a critical component of the whole tax deduction method and one of just three systems that can qualify you for the partial tax deduction.

Lighting is likely to be your fastest and easiest path to taking advantage of the tax incentives offered by the Energy Policy Act. Combine these tax breaks with the increase in energy efficiency that new lighting can provide, and lighting becomes an even more attractive route for seeing major returns on your facility investment.

### Demonstrate the Value

You only have two years to realize the savings opportunities that the Energy Policy Act of 2005 (EPAct) offers. With tax incentives of as much as \$1.80 per square foot and the potential to save tens - or hundreds - of thousands of dollars on your energy costs, there likely has never been a better time to upgrade your lighting systems.

In order to help you make informed decisions about how to get the most from the Energy Policy Act and to provide you with the information you need to move into the upgrade process before the tax deductions expire, we provide a number of resources:

- *Discover the value of lighting and how upgrading to energy efficient lighting systems can save you money in two ways.*
- *Learn how to identify opportunities when examining your building for the potential cost-saving opportunities that EPAct provides.*
- *Calculate potential savings you can get based on the provisions in EPAct.*

# Start Saving Today! Call 941-756-4844

## ***Lighting and Energy Solutions for Business***



# CHANGE FOR THE BETTER WITH ENERGY STAR

ENERGY STAR®, a U.S. Environmental Protection Agency and U.S. Department of Energy program, helps us all save money and protect our environment through energy efficient products & practices. For more information, visit [www.energystar.gov](http://www.energystar.gov).

## ARE YOU READY TO TAKE ADVANTAGE OF THE NEW COMMERCIAL TAX INCENTIVES?

### INTRODUCTION

You may be eligible for a tax deduction of up to \$1.80 per square foot for improving the energy efficiency of your existing commercial buildings or designing high efficiency into new buildings.

The Energy Policy Act of 2005 includes a tax deduction for investments in "energy-efficient commercial building property" designed to significantly reduce the heating, cooling, water heating, and interior lighting energy cost of new or existing commercial buildings. To be eligible, the energy-efficient commercial building property—such as a state-of-the-art lighting system—must be placed in service between January 1, 2006 and December 31, 2008.

To qualify for the full deduction, a building owner or tenant must make investments designed to reduce energy costs by 50% or more. A partial deduction of \$0.60 per square foot is available for investments in one of three systems—lighting; heating and cooling; or building envelope—designed to reduce energy costs by 16 and 2/3% (i.e., one-third of the 50% requirement).

Tax deductions reduce your overall taxable income with the value of the deduction dependent on your tax bracket. Tax credits, such as the ones provided for consumers in the 2005 Energy Policy Act, reduce the amount of tax you owe dollar for dollar.

### Who Can Benefit from the Deduction?

The person or organization that pays for construction is generally the recipient of the deduction. This is usually the building owner, but for some HVAC or lighting efficiency projects, it could be the tenant.

For government-owned buildings, the person primarily responsible for designing the building or project may be able to claim the deduction.

### How Can I Qualify For The Tax Deduction?

To apply for the tax deduction, you must use one of the software tools approved by the Department of Energy. For a complete list of approved software, visit [www.eere.energy.gov/buildings/info/qualified\\_software](http://www.eere.energy.gov/buildings/info/qualified_software).

For more information, visit these websites:

- [www.energystar.gov/taxcredits](http://www.energystar.gov/taxcredits)

The ENERGY STAR website includes links to more detailed information, as well as cost-effective solutions for improving the energy efficiency of your buildings.

- [www.efficientbuildings.org](http://www.efficientbuildings.org)

Sponsored by the Commercial Building Tax Deduction Coalition, including business, trade, government, energy efficiency, and other groups convened by the National Electrical Manufacturers Association.

- [www.energytaxincentives.org](http://www.energytaxincentives.org)

Sponsored by the Tax Incentives Assistance Project (TIAP), a coalition of public interest non-profit, government, and other organizations in the energy efficiency field.

### ENERGY STAR CAN HELP

These three steps are the cornerstone of many effective energy savings programs, and will help you identify the best opportunities to qualify for the tax deduction.

1. Establish the energy use of your building(s) and set a savings goal—Take the ENERGY STAR Building Challenge

It is hard to manage what we do not measure. With new easy to use energy use tracking tools, you can establish the current energy use of your building(s) and determine a reasonable energy savings goal.

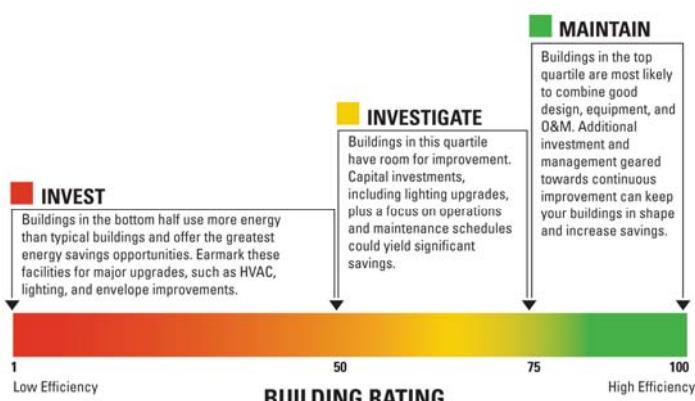
Here's how:

- Assess the current energy use of your building(s) to establish a reference using EPA's national energy

performance rating system ([www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)), a free online tool that provides many types of buildings with a score on a simple 1-to-100 scale, 1 being the least efficient and 100 being the most.

- Set appropriate goals for your business. EPA encourages the establishment of a simple 10 percent savings goal to start and your participation in the national ENERGY STAR Building Challenge ([www.energystar.gov/challenge](http://www.energystar.gov/challenge)). Many organizations are finding this to be an effective savings strategy. For individual buildings, you may find the opportunity for much greater savings. The approximately 2,600 buildings across the country that have earned the ENERGY STAR use about 40% less energy than typical buildings—your lower-performing buildings may offer savings of 50% or more.

The table below is a general guide to interpreting the ratings for your building(s).



## 2. Design New Buildings to Achieve Top Energy Efficiency

To qualify for the tax incentive by demonstrating that the code-regulated systems in a new building are designed to save 50% of the energy cost, the design team must set a clear goal, supported by good technology and carefully integrated systems. EPA can help you set energy efficiency targets for your new buildings at the design stage, showing you how your building would rate if operating today. Designing for top efficiency can now bring a tax benefit as well as EPA's "Designed to Earn the ENERGY STAR" recognition and years of energy bill savings.

Here's how:

- Estimate the building's total energy budget, and use EPA's Target Finder ([www.energystar.gov/newbuildingdesign](http://www.energystar.gov/newbuildingdesign)) to compare it with existing buildings of a similar type. Make sure the projected energy budget includes all energy uses, not just those systems covered by the energy code.
- Apply for the "Designed to Earn the ENERGY STAR" recognition for building designs with estimated energy performance among the nation's best.

### 3. Improve Lighting Systems

Improving your lighting systems is one of the first steps EPA recommends to increase the efficiency of your buildings—whether you are retrofitting existing buildings or designing new buildings. This is not only because lighting upgrades are so cost-effective, but also because less heat is generated from efficient lighting systems, affecting the proper sizing of more capital-intensive heating and cooling systems. As outlined in the ENERGY STAR Building Upgrade Manual ([www.energystar.gov/BldgManual](http://www.energystar.gov/BldgManual)), a strategy that combines efficient lighting technologies, controls, and appropriate light levels is the most effective approach to meeting energy efficiency goals, including those required to qualify for the partial tax deduction.

You may qualify for a deduction of \$0.60 per square foot if the lighting system employs dual switching (ability to switch roughly half the lights off and still have fairly uniform light distribution) and reduces installed lighting power by at least 25% from values specified in specific cited tables in ASHRAE Standard 90.1-2001. As lighting power reductions climb from 25% to 40%, the deduction is increased proportionally, up to \$0.60 for a 40% power reduction (plus the dual switching). This prorated credit does not apply to warehouse lighting. For a typical building, a lighting power reduction of 40% increases the building's ENERGY STAR rating by about 10 points.

### CONSULT A TAX PROFESSIONAL

The steps outlined above should help you improve the efficiency of your buildings and prepare for the new tax incentives. But only a tax attorney or other professional can provide tax advice.