

## Lighting Technology Guide

Application and Example		Incandescent	Halogen	HID	Compact Fluorescent	T12 Fluorescent (Linear)	T8 Fluorescent (Linear)	T5 Fluorescent (Linear)	LED
		Low Ceiling Office, Conference Rooms, Classrooms, Hallways	●	●	○	○	○	○	○
High Ceiling Sanctuaries, Lobbies, Parish Halls	●	●	○	○	○	○	○	○	○
Exterior Light Parking Lights	●	●	○	○	○	○	○	○	○
Accent Lighting Chancel Features, Displays, Artwork	●	○	○	○	○	○	○	○	○
Task Lighting Desk Lamps, Other Lamps	●	○	○	○	○	○	○	○	○
Exit Sign Lighting Exit Signs	●	○	○	○	○	○	○	○	○
Key									
Not Applicable	Low-Efficiency in Application	Medium-Low Efficiency in Application	Medium Efficiency in Application	Medium-High Efficiency in Application	High Efficiency in Application				

**Note:** This is for information purposes only; for major retrofits or new construction, consider a computer model from a lighting professional. \* Change the electronic ballasts with new fluorescent technology. \* EOA: Energy Star@ Putting Energy into Stewardship Congregation Guide

### A Call to Action:

**For churches:** The third edition of the EPA program, [Putting Energy into Stewardship: Star Energy for Congregations](#) is a good resource of technical information (includes previous Lighting Technology Guide). **This is a more replete version than #2, distributed to Presbytery churches in 2005.**

**ENERGY STAR for Congregations:** Most congregations can cut energy costs by up to 30% by investing strategically in efficient equipment, facility upgrades and maintenance. With free, unbiased information and technical support from ENERGY STAR, your congregation can more easily improve stewardship of your budget's energy dollars, and of the earth by reducing energy waste and energy costs, while protecting the environment. For purchases, Star Energy ratings may be helpful but ask people experienced with what is available also.

**For Youth:** Compact fluorescent light fundraiser.

### Further Resources

- [www.webofcreation.org](http://www.webofcreation.org)
- NJ Rebate Program:
- [www.njcleanenergy.com](http://www.njcleanenergy.com)

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God's Command was to tend The Garden  
*Genesis 2:13*



## Conserving & Preserving



## Meditation

### Blessed Treasures

Teach us to conserve,  
preserve,  
use wisely  
the blessed treasures  
of our wealth-stored earth.

Help us to share  
your bounty,  
not to waste it,  
or pervert it  
into peril  
for our children  
or our neighbors  
in other nations.

Help us to harness  
the wind,  
the water,  
the sun,  
and all the ready  
and renewable  
sources of power.

You who are life  
and energy  
and blessing,  
teach us to revere  
and respect  
your tender world.

[by Thomas John Carlisle,  
from *Celebrating Earth Holy Days* }

## Energy Conservation at Religious Institutions

Congregations have been made very aware of the necessity to conserve fossil fuels for heating, lighting, and cooling church buildings. Energy efficiency requires diligence for financial reasons but also to maintain these “blessed treasures” that are our life-supporting natural resources.

### Be pragmatic:

- Check whether equipment is running unnecessarily. Turn off lights, computers, etc. when out of the office or vacating a room for more than an hour. Install occupancy sensors where practical.
- Adjust thermostats to energy saving levels; replace worn out thermostats with programmable ones.
- Tune up heating/a-c systems annually. For efficiency, dust refrigerators and heating registers. In winter, close a/c vents; check for air flow obstructions.
- Look for energy efficient heating/a-c, appliance when old wears out.
- Check affordability of new lighting technology and replace old lights with new as feasible.

**For more important tips: check Green Faith: [www.greenfaith.org](http://www.greenfaith.org)**

Afterward, use suggestions for an informal audit; if possible, hire a professional to do an energy audit.

## Energy Conservation at Home\*

1. With certain detergents, clothes washed in cold water are as clean as with hot water; draft-proof doors and windows; add insulation to hot water heater and pipes; turn down temp.
2. Use microwave ovens often; microwave ovens “draw 50% less energy and cook food in much shorter times”
3. Use a space or system connected humidifier during heating season. “Comfort is a function of temperature, humidity, and air movement”.

**\*For more significant tips, check the Edison Electric Institute: [www.eei.org](http://www.eei.org), download pamphlet [More than 100 Ways to Improve your Electric Bill](#).**

**For more information and resources Visit: [Tools and Resources | NJ OCE Web Site](#)**



## Put Stewardship into Energy Short Answer Quiz

1. T-12's, T-8's and T-5's indicate the length or width of fluorescent lights
2. HID lamps are used for spot lighting or lighting large areas.
3. A 40W compact fluorescent light bulb is equivalent to a 150 W. incandescent bulb



### Quiz Answers:

(Found in The Stewardship Energy Manual)

1. Indicates the width or diameter.
2. Lighting large areas
3. Yes.