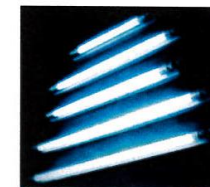




## Recycling Fluorescent Lights: A Disposal Solution for Small Businesses in Londonderry



### Why they need to be recycled:

Many businesses light their buildings with fluorescent lamps (FLs)

- But mercury in them makes them hazardous waste
- Mercury can damage our central nervous system and organs
- NH has a state-wide fish consumption advisory due to mercury
- And NH law forbids FL disposal in our landfills (2008)

\* \* 100% of lamp components—glass, metal—are recyclable \* \*

NH generates **2.6 MILLION** spent FL lamps annually.  
But less than 15% are estimated to be recycled.

### Easy options for Londonderry small businesses:

**A.** Bring fluorescent tubes and bulbs to the Londonderry Drop Off Center Saturdays, 8am – 4pm, from May to November

- Located on West Road near the Hudson town line
- Maximum of 10 lamps per week
- A small nominal fee will be charged:

\$ .50 per bulb (CFL) or \$.25 per foot (tube)

**B.** Compact FLs (bulbs) can be dropped off at Home Depot or Lowe's daily at no charge. Cyr Lumber in Windham takes all FLs.

**C.** Contact a FL recycling vendor to get a recycling kit in which to pack and mail the lamps for recycling : ----->

Prepared by the Londonderry Public Works Dept.  
and Londonderry's Solid Waste and Environment Committee

### Breakage Cleanup

1. Ventilate room: close internal doors & vents, open windows and exterior doors and vacate room for 15 min.
2. With disposable gloves and cardboard, pick up glass and residue. Also use tweezers and masking or duct tape.
3. Wipe area clean with a damp paper towel or wipe.
4. Place materials in a glass jar with metal lid and store safely until the next Household Hazardous Waste collection day.
5. Wash hands and leave windows open as long as practical.
6. DO NOT VACUUM.

For more information, see the websites below.

### For more information:

- **Londonderry DPW**

Bob Kerry, Environmental Engineer 432-1100 x137  
[rkerry@londonderrynh.org](mailto:rkerry@londonderrynh.org) [www.londonderrynh.org](http://www.londonderrynh.org)

- **NH Dept. of Env'l Services**

[www.des.nh.org](http://www.des.nh.org)  
Stephanie D'Agostino, Env'l Prog Mgr 271-6398

- **FL recycling vendors**

- Universal Recycling Technologies 603-422-7711  
[www.urtrecycles.com](http://www.urtrecycles.com) Dover NH
- Complete Recycling Solutions 508-402-7700  
[www.crsrecycle.com](http://www.crsrecycle.com) Fall River, MA







## Lighting Alternatives for Small Businesses in Londonderry



### A Primer on Lamp Options

- **Incandescents** – cheap to buy but inefficient; use a lot of energy to run; expensive to operate; contribute to power plant emissions
- **Halogens** – marginally better than incandescents
- **Fluorescents (FLs)** – 4 to 5X more efficient and long-lived, but must be recycled due to mercury. Much cheaper to use.
- **CFLs** – Compact Fluorescent Light bulbs are designed to replace incandescent bulbs
- **LEDs** – the future of lighting. Significantly higher purchase price, but cheaper to use in the long run and the price keeps dropping. And no mercury.

Cost Comparison: 60 watt bulbs			
Performance Qualities	Incand	CFL	LED
Purchase Price	\$0.41	\$0.99	\$9.97
Power used (watts)	60	14	9.5
Lifespan (hours)	1,000	10,000	25,000
Bulb lifetime (years @6 hrs/day)	0.5	4.6	>11
Energy cost over 20 yrs (\$.13/kWh)	\$342	\$80	\$54
Total cost over 20 yrs	\$360	\$85	\$74

### Why use Fluorescent Lights (FLs):

- Regular Incandescent lights drive power plant pollution
- FLs cost a little more to buy, but they:
  - Use a fraction of the energy of incandescent lights
  - Last 8 – 15X longer
  - Cost substantially less to operate
  - Save 5X their purchase price in electricity expenses

### Advantages of LED lighting

- Very cheap to use and last for decades
- Lights up immediately
- Resists shock; doesn't break like other lights
- No mercury
- Stands up better to frequent switching on/off
- Available in varieties of colors & sizes
- "Cool light" radiates little infra-red heat; avoids damage
- Used for treating pain, promoting healing, traffic safety, improving agriculture, boosting sales
- Can help people to focus, to relax, or to energize
- Can be connected, like computers and phone networks
- Can be programmed based on time, sound, even weather
- Fails by dimming over time

Prepared by the Londonderry Public Works Dept.  
and Londonderry's Solid Waste and Environment Committee