

# Vermont Lamp Recycling Program

Erik Sorenson

NEMA

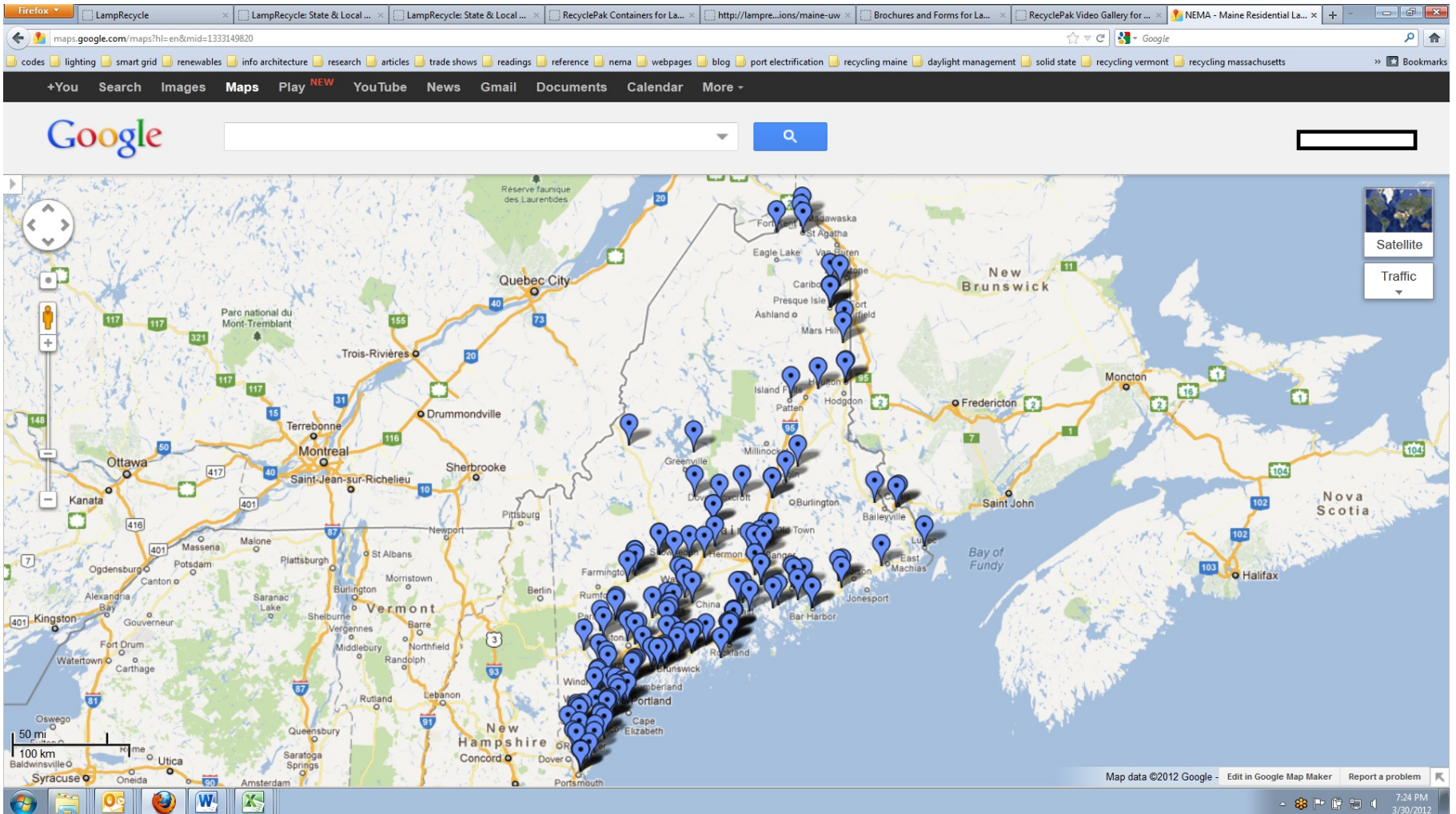
# Who is NEMA?

- NEMA – National Electrical Manufacturers Association
- Member companies that manufacture lamps elected to submit a plan to fulfill their recycling obligation in Vermont through NEMA
- Non-NEMA manufacturers were also invited to participate in the program

# Maine Lamp Recycling Program

- In operation since January 2011
- Collects spent lamps from municipal and retail collection sites
- Over 150 sites participating
- Currently operating as a mail back program
- Telephone and online support for participating collection sites
- Online ordering available

# Maine Lamp Recycling Program



The screenshot shows a web browser window with multiple tabs open, including 'LampRecycle', 'RecyclePak Containers for La...', and 'NEMA - Maine Residential La...'. The main content is a Google Maps page displaying a map of the Northeastern United States and Eastern Canada. The map is densely populated with blue location pins, primarily concentrated in the states of Maine, New Brunswick, and Nova Scotia, with some pins extending into Vermont, New Hampshire, and Ontario. The browser's address bar shows the URL 'maps.google.com/maps?hl=en&mid=1333149820'. The Google search bar is visible at the top, and the browser's taskbar at the bottom shows the system time as 7:24 PM on 3/30/2012.

# Maine Lamp Recycling Program



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Commercial Lighting

Residential Lighting



Lighting manufacturers, through their trade association, National Electrical Manufacturers Association (NEMA) developed lamprecycle.org to provide a one-stop source of information about recycling lamps (the term used in the lighting industry to refer to all types of light bulbs).

Compact fluorescent lamps (CFLs), and with other energy-efficient lighting such as linear fluorescent and high intensity discharge (HID) lamps contain a very small amount of mercury, an element essential to achieving energy savings. While these lamps help consumers and businesses cut their lighting energy usage and reduce energy costs, it is important that any product containing mercury be properly managed when it becomes waste to protect public health and the environment.

Easy and convenient options exist for both businesses and consumers to recycle waste mercury-containing lamps. It is estimated that businesses already recycle over 30% of their waste lamps annually and consumers are embracing lamp recycling as they switch to more efficient lighting technologies.

Don't put Fluorescent Lamps in the trash.



Click Here

To find the Lamp-recycling centers near your address.

#### Recycling Events

- [\\*CFL\\* Bulb Disposal: Handle With Care](#)
- [\\*Incandescent Bans Initiated in Europe, Set for U.S. - Earth911.com](#)

[View All »](#)



#### Mercury & Fluorescent Lighting Facts

Manufacturer investment in technology over the last two decades have reduced the amount of mercury used in lamps by nearly 95%.



# Maine Lamp Recycling Program



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## State & Local Laws

The handling, storage, and disposal of mercury-containing, energy efficient lights such as linear fluorescent, compact fluorescent, and high intensity discharge lamps are subject to state and local laws. For businesses, either the Federal Universal Waste Rule (40 CFR 273) or a state's version of the Universal Waste Rule applies when the volume of lamps (and other types of regulated waste) exceeds a certain threshold. Recycling is usually the only financially viable option for businesses or institutions that generate large numbers of waste lamps to comply with the Rule.

Mercury-containing lamps generated by households and small businesses, however, are not always subject to legal restrictions regarding their disposal. But state laws vary and some states, such as California, Maine, New Hampshire, Minnesota, Vermont and Massachusetts, prohibit all mercury-containing lamps from being discarded in the solid waste stream.

Many local ordinances require recycling of mercury-containing products, including lighting. It's best to check with your municipality to understand whether there are local requirements addressing mercury-containing waste disposal.

Members of NEMA's lamp manufacturing section encourage recycling of all mercury-containing lamps, regardless of whether recycling is required by law. This site contains information on how to find collection sites and recycling services in your area.

[Maine](#)

[Massachusetts](#)

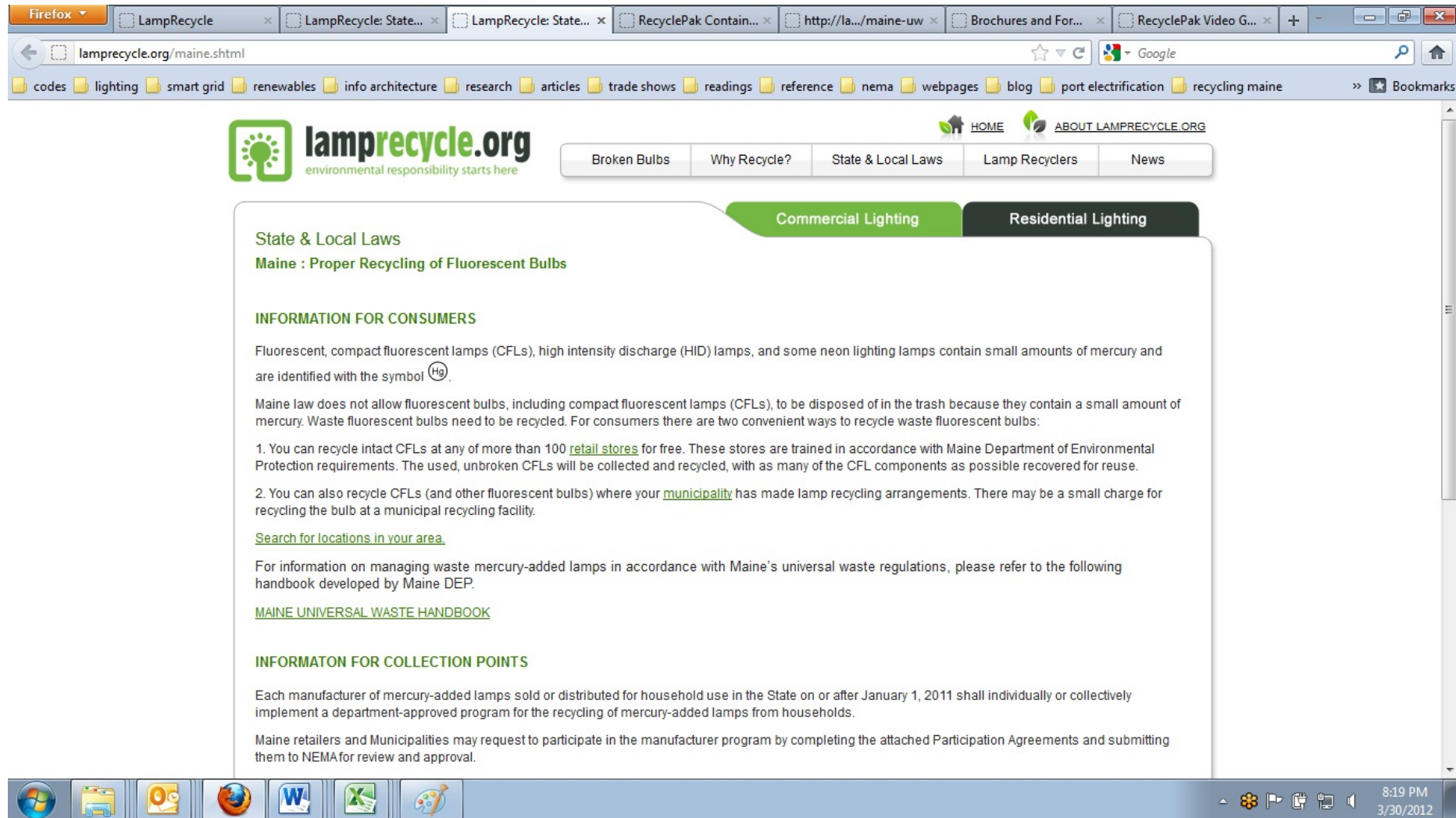
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Site designed by [Kohl Designs](#).

# Maine Lamp Recycling Program



Firefox

LampRecycle x LampRecycle: State... x LampRecycle: State... x RecyclePak Contain... x http://la.../maine-uw x Brochures and For... x RecyclePak Video G... x

lamprecycle.org/maine.shtml

codes lighting smart grid renewables info architecture research articles trade shows readings reference nema webpages blog port electrification recycling maine

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## State & Local Laws

### Maine : Proper Recycling of Fluorescent Bulbs

#### INFORMATION FOR CONSUMERS

Fluorescent, compact fluorescent lamps (CFLs), high intensity discharge (HID) lamps, and some neon lighting lamps contain small amounts of mercury and are identified with the symbol .

Maine law does not allow fluorescent bulbs, including compact fluorescent lamps (CFLs), to be disposed of in the trash because they contain a small amount of mercury. Waste fluorescent bulbs need to be recycled. For consumers there are two convenient ways to recycle waste fluorescent bulbs:

1. You can recycle intact CFLs at any of more than 100 [retail stores](#) for free. These stores are trained in accordance with Maine Department of Environmental Protection requirements. The used, unbroken CFLs will be collected and recycled, with as many of the CFL components as possible recovered for reuse.
2. You can also recycle CFLs (and other fluorescent bulbs) where your [municipality](#) has made lamp recycling arrangements. There may be a small charge for recycling the bulb at a municipal recycling facility.

[Search for locations in your area.](#)

For information on managing waste mercury-added lamps in accordance with Maine's universal waste regulations, please refer to the following handbook developed by Maine DEP.

[MAINE UNIVERSAL WASTE HANDBOOK](#)

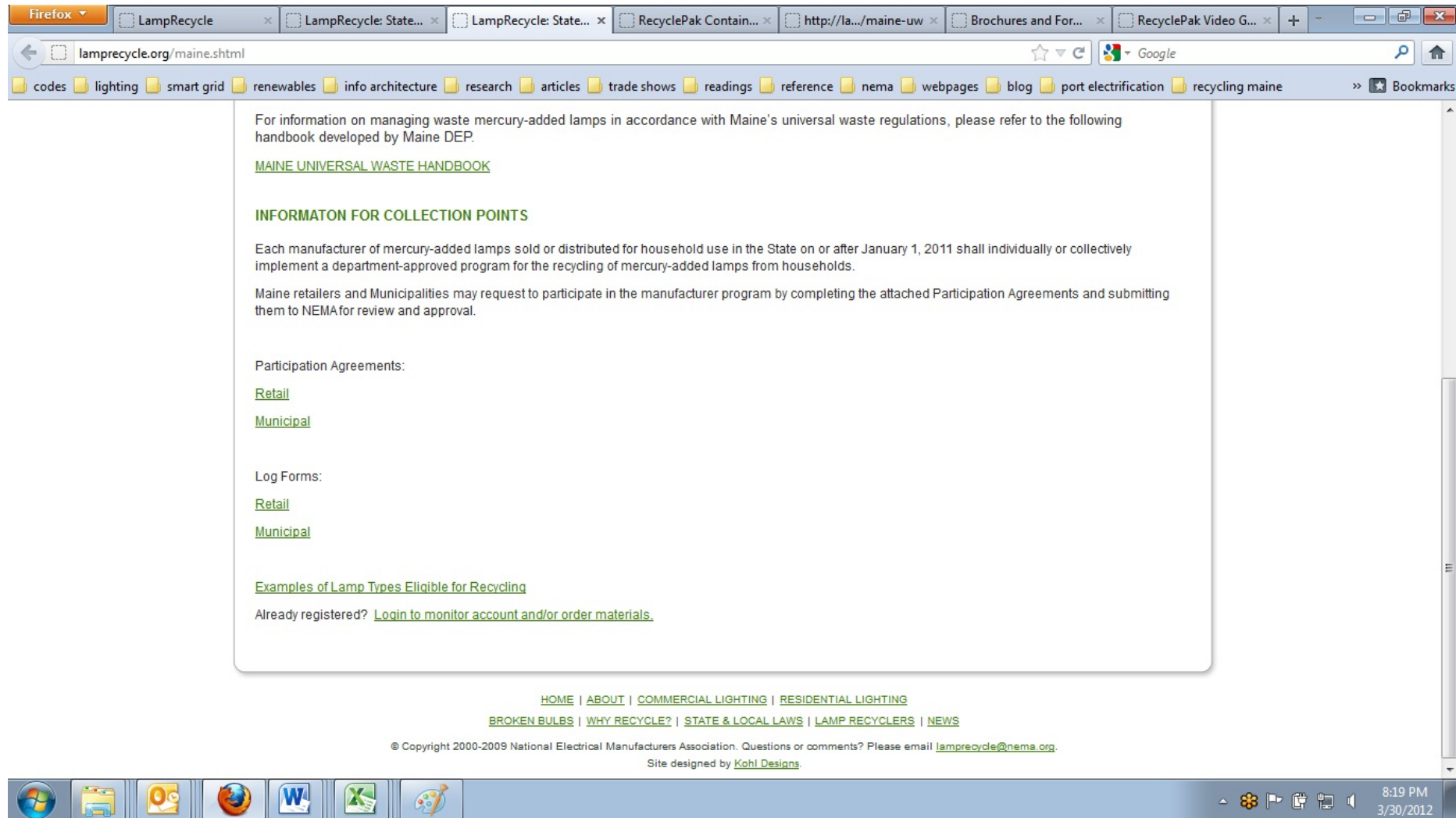
#### INFORMATION FOR COLLECTION POINTS

Each manufacturer of mercury-added lamps sold or distributed for household use in the State on or after January 1, 2011 shall individually or collectively implement a department-approved program for the recycling of mercury-added lamps from households.

Maine retailers and Municipalities may request to participate in the manufacturer program by completing the attached Participation Agreements and submitting them to NEMA for review and approval.

8:19 PM  
3/30/2012

# Maine Lamp Recycling Program



The screenshot shows a Firefox browser window with several tabs open. The active tab is 'http://la.../maine-uw'. The address bar shows 'lamprecycle.org/maine.shtml'. The page content includes:

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Participation Agreements:

[Retail](#)

[Municipal](#)

Log Forms:

[Retail](#)

[Municipal](#)

[Examples of Lamp Types Eligible for Recycling](#)

Already registered? [Login to monitor account and/or order materials.](#)

Navigation links at the bottom: [HOME](#) | [ABOUT](#) | [COMMERCIAL LIGHTING](#) | [RESIDENTIAL LIGHTING](#) | [BROKEN BULBS](#) | [WHY RECYCLE?](#) | [STATE & LOCAL LAWS](#) | [LAMP RECYCLERS](#) | [NEWS](#)

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Site designed by [Kohl Designs](#).

The taskbar at the bottom shows the Windows Start button, several application icons (Internet Explorer, Firefox, Word, Excel, Paint), and the system tray with the date and time: 8:19 PM, 3/30/2012.



# Maine Lamp Recycling Program



## Order Recycling Containers for Municipal Collection Locations

Select the quantity of recycling containers for household mercury-added lamps that you need below. All costs are charged to the National Electrical Manufacturers Association (NEMA). As required by Maine law, manufacturers are offering recycling containers, transport, and processing of waste mercury-added lamps from households at no-cost to eligible municipal and retail collection points. The National Electrical Manufacturers Association (NEMA) is your point of contact for this program on behalf of lamp manufacturers.

### Choose the Waste Type You Want to Recycle

[ALL](#) | [LAMPS](#)

Then Select Your Items



#### SUPPLY065- LARGE 4 FT FLUORESCENT LAMP RECYCLING BOX

Assembled Dimensions: 12"x12"x48" | Capacity: 68 T12 or 146 T8 4ft straight fluorescent lamps | Includes: UN rated and DOT approved recycling container, internal structural tube, 6 mil vapor barrier liner, liner tie, Velcro closures, instructions, terms and conditions, prepaid return shipping label, proof of purchase with serial number, online certificates of recycling. Not available in the states of Alaska, Hawaii or Puerto Rico. [More »](#)

Cost per Kit is \$0.00 USD  pcs [Add to Cart](#)



#### SUPPLY190- LARGE 8FT FLUORESCENT LAMP RECYCLING BOX

Assembled Dimensions: 8"x8"x96" | Capacity: 25 T12 or 57 T8 8ft straight fluorescent lamps | Includes: UN rated and DOT approved recycling container, internal structural tube, 6 mil vapor barrier liner, liner tie, Velcro closures, instructions, terms and conditions, prepaid return shipping label, proof of purchase with serial number, online certificates of recycling. Not available in the states of Alaska, Hawaii or Puerto Rico. [More »](#)

Cost per Kit is \$0.00 USD  pcs [Add to Cart](#)



#### SUPPLY126- 2FT MIXED LAMP RECYCLING BOX

Assembled Dimensions: 16"x16"x25" | Capacity: 22 T12 or 32 T8 U-tubes, misc. HIDs, up to 250 CFLs | Includes: UN rated and DOT approved recycling container, internal structural tube, 6 mil vapor barrier liner, liner tie, Velcro closures, instructions, terms and conditions, prepaid return shipping label, proof of purchase with serial number, online certificates of recycling. Not available in the states of Alaska, Hawaii or Puerto Rico. [More »](#)

Cost per Kit is \$0.00 USD  pcs [Add to Cart](#)



#### SUPPLY191- LARGE U-TUBE, HID LAMP RECYCLING BOX

Assembled Dimensions: 22"x22"x24" | Capacity: 46 T12 or 81 T8 U-tubes, 60 400watt HIDs – NO CFLS ALLOWED | Includes: UN rated and DOT approved recycling container, internal structural tube, 6 mil vapor barrier liner, liner tie, Velcro closures, instructions, terms and conditions, prepaid return shipping label, proof of purchase with serial number, online certificates of recycling. Not available in the states of Alaska, Hawaii or Puerto Rico. [More »](#)

Cost per Kit is \$0.00 USD  pcs [Add to Cart](#)

Total \$ 0.00



# Vermont Lamp Recycling Program

## Goals:

- Establish and maintain a continuous and uniform level of recycling services
- Provide recycling services in a coordinated manner that facilitates the routine collection of waste mercury-containing lamps
- Provide educational materials and customer support to participating collection sites

# Manufacturers' Role

## **Responsibilities:**

- Develop and sustain lamp recycling infrastructure
- Provide participating collection sites with educational resources, customer service
- Promote the need to recycle and the availability of the lamp recycling program to residents of Vermont

# Participating Municipalities' Role

## **Responsibilities:**

- Educate the population about the availability of lamp recycling
- Facilitate the collection of mercury-containing lamps from covered entities
- Support the program's reporting requirements
- Handle spent lamps in compliance with all applicable requirements of Vermont's universal waste law

# Questions?

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