

Fluorescent Lighting Efficiency

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Background information:

- A. The Federal 2005 Energy Policy Act bans sale of magnetic replacement ballasts for linear fluorescent lamps in 2010.
- B. Four-foot fluorescent lighting has been retrofit with T8 and electronic ballasts in 91% of large buildings and 47% of medium and small buildings in California. SF is significantly higher due to special lighting retrofit programs starting in 2001.
- C. The Energy Watch will pay a large percentage of the construction cost for the retrofit.
- D. Energy reduction: 6% commercial lighting and 2% of total commercial energy.
- E. 44 million kWh, equal to the Energy Watch program goal, and 16,500 tons of Green House Gases, .7% of the City's adopted 2012 goal of 2.1 million tons of reduction.

Requirements

- 1 Applies to 4 and 8 foot lamps only
- 2 Applies to interior and exterior lighting
- 3 Requires linear fluorescent lighting to be equal to or greater than 82 lumens per watt or have occupancy control, daylight dimming, automated demand control, or be powered by licensed on-site power during daytime.
- 4 Exemptions for lighting in the following equipment:
 - a. Utilization equipment (other than luminaries) listed by an approved testing agency
 - b. Vending machines and display cases
 - c. Process equipment and refrigeration

Subject Properties

- 5 Applies to Commercial properties including B use areas, e.g. concession areas in hotels. Does not apply to Residential (R use) property including Tourist hotels and SRO's.
- 6 Exemptions to be provided by Administrator
 - a. If shown to be not cost-effective
 - b. Creates an extra-ordinary hardship

Compliance Process (Proposed)

- A. Commercial building owners must certify by 12/31/08 that luminaries are in compliance.
- B. After 12/31/08, non-compliant buildings will not be issued any permit by DBI.
- C. After 12/31/08, any DBI inspector, upon seeing non-compliant fixtures on the premises, will not finalize a permit inspection.

Administration

1. Administered by Department of Building Inspection with staff support from Dept of Environment.

Support for Building Owners

- a. A compliance guide will be provided to building owners. It will provide a description of the non-compliant and compliant equipment. It will remind building owners that recycling of fluorescent lamps is required.
- b. Building owners will be provided information about the Energy Watch program operated by the Dept of Environment. Energy Watch will pay a large percentage of the construction cost. Dept of Environment staff performs quality control inspections. Program ends 12/31/08.