

GPN-GL8 Purchasing Guidelines for

Lighting Equipment

Green Purchasing Network (GPN)

I. Lighting Plans

1. Scope

These guidelines cover important environmental issues that should be considered when drawing up lighting plans for facilities including residences and offices as well as outdoors.

2. Guidelines

When drawing up lighting plans, the following articles should be considered for selecting methods with as little environmental burden as possible:

- (1) Consider the appropriate brightness
- (2) Use daylight (natural light)
- (3) Appropriately combine general and localized lighting
- (4) Utilize brightness sensors, human motion sensors, timer functions, and light adjustment functions
- (5) Utilize automatic control system for all lightings of facilities
- (6) Wire electrical switches to extinguish each compartment as necessary

II. Lighting Fixtures

1. Scope

These guidelines cover important environmental issues that should be considered when purchasing lighting fixtures for facilities including residences and offices as well as outdoors.

2. Guidelines

When purchasing lighting fixtures, the following articles should be considered for purchasing products with as little environmental burden as possible:

- (1) High energy efficiency
 - i. LED lighting fixtures should be selected unless there is any inconvenience for the purpose of use.
 - ii. Lighting fixtures should have initial illumination control by dimming function or timer operation.
 - iii. Lighting fixture for a space that needs short lighting duration should have a sensor.
 - iv. High energy efficiency lighting should be selected among lighting of the same kind.
- (2) Designed to facilitate disassembling and recycling of component parts

- (3) Contains of no lead, mercury, cadmium, hexavalent chromium compounds, or specific bromine-based flame-retardants (PBB, PBDE), to the utmost extent possible

III. Lamps

1. Scope

These guidelines cover important environmental issues that should be considered when purchasing lamps.

2. Guidelines

When purchasing lamps, the following articles should be considered for purchasing products with as little environmental burden as possible:

- (1) High luminous efficiency
 - i. LED lamps should be used when they cause no inconvenience for the purpose of use and fit to lighting fixtures.
 - ii. Three band fluorescent lamps should be selected when fluorescent lamps are used.
- (2) Long life cycle
- (3) For fluorescent lamps, consideration of recovering and recycling measures after use of the products
- (4) Contains no lead, mercury, cadmium, hexavalent chromium compounds, or specific bromine-based flame-retardants (PBB, PBDE), to the utmost extent possible

*These guidelines (I, II, and III) are subject to change in accordance with new findings and changes in social conditions.

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