

[DOE, July 15, 2008]

IMPLEMENTING RULES AND REGULATIONS OF ADMINISTRATIVE ORDER (AO) NO. 183 "DIRECTING THE USE OF ENERGY EFFICIENT LIGHTING/LIGHTING SYSTEMS (EELS) IN GOVERNMENT FACILITIES" (PALIT-ILAW PROGRAM)

**RULE I
GENERAL PROVISIONS**

SECTION 1. Coverage

These Implementing Rules and Regulations (IRR) shall apply to all government facilities except as provided for in Section 8, hereof.

**RULE II
DEFINITION OF TERMS**

SECTION 2. For the purpose of this Implementing Rules and Regulations (IRR) the following terms are defined as follows:

Energy Efficient Lighting/Lighting Systems (EELs) - Refers to the use of artificial light to receive the optimal level of light for the lowest energy investment.

Energy Conservation Officer or ECO - Refers to a Senior Official who is officially designated by the concerned Head of Agency to ensure the agency's compliance with the provisions of Administrative Order No. 103 (s.2004), Administrative Order No. 110 (s.2004), Administrative Order 126 (s. 2005) and Administrative Order No. 183 (s. 2007) as well as

the development and implementation of other energy conservation measures.

Energy Survey/Audit - Refers to the verification, monitoring and analysis of energy

Energy Label- A descriptive label on the packaging of each Compact Fluorescent L (CFL) indicating light output in lumens, power consumption in watts, efficacy in per watt, and average life as certified by DOE and DTI.

Environmental Management System (EMS) - A part of the over-all management system in an organization. It is a continual cycle of planning, doing (Implementation and Operation) checking and acting (Review) on the Programs that an organization takes to meet its * obligations to the environment on the surroundings to which it operates.

Fluorescent Lamp - Refers to Discharge lamp of low pressure mercury type, in which most of the light is emitted by one or several layers of phosphor excited by the

ultraviolet radiation from the discharge.

- Compact Fluorescent Lamp (CFL) - A lamp/ballast combination which may either be pin type, bayonet type, screw-based, self-ballasted or modular type.

- Linear/Tubular Fluorescent Lamp (LFL) - Fluorescent lamp having two separate caps mostly of tubular form and linear shape, also known as double-capped fluorescent lamps

- Single-capped Fluorescent Lamp (SFL) - Fluorescent lamp having a single cap, for operation on external circuits with either an internal or external means of starting

Government Entity - Refers to any/all departments, bureaus, offices, agencies and instrumentalities of the Philippine Government, including National Government Agencies, State Universities and Colleges, Government-Owned and Controlled Corporations, Government Financial Institutions, and other Government Corporate Entities including projects financed by the Government such as housing and school buildings, among others.

Government Facility - Refers to any building or cluster of buildings, grounds, or structure, including any fixture or parts thereof, and the associated energy consuming support systems, which are constructed, renovated or purchased in whole or in part for use by the Philippine Government or its assignee/s in the case of Government-financed housing project. It shall also include any building rented/leased in whole or in part for use by the Philippine Government.

Import Commodity Clearance (ICC) - Refers to the document attesting that the imported fluorescent lamps passed the requirements of the specific standards and is governed by, but not limited to, the Department of Trade and Industry - Department Administrative Order 5:2001 (DAO 5 series of 2001) and any amendment thereto.

MEPS - Refers to the Minimum Energy Performance Standards for specific lighting products in the PNS.

Palit-Ilaw Program - Refers to the shift from the use of T12S (40 watts and 20 watts) LFLs to T8s (36 watts and 18 watts maximum, slim type) or other more energy efficient lighting systems that conform to PNS and MEPS specifications. It also refers to the changeover

from incandescent bulbs (IBs) to CFLs with corresponding equivalent light output that to PNS and MEPS specifications.

PNS - Refers to the Philippine National Standard promulgated by the DTI-Bureau of Product Standards (BPS).

Product Standard (PS) Quality and/or Safety Certification License - Refers to the Document issued by BPS authorizing a company to use the Product Standard (PS) Mark on the products.

Procurement Service Department Budget Management (PSDBM) - The Procurement Service-PS) was created on October 18, 1978 by virtue of Letter of Instructions (LOI) No. 755 Which directed the establishment of an integrated procurement system for

the national government and its instrumentalities. An Executive Order No. 285 was issued reiterating the mandate of LOI 755 on July 28, 1987.

RULE III PALIT-ILAW PROGRAM

SECTION 3. Scope.

The Palit-Ilaw Program shall be implemented by all government entities for lighting retrofits of existing facilities. It shall also include the outright use of EELs in new government facilities and in government-financed projects.

SECTION 4. Application

This IRR shall apply to the lighting of the following areas:

- a. Interior spaces;
- b. Exterior areas of buildings such as entrances, exits, loading docks, parking areas, and others as identified by the ECO: and
- c. Roads, grounds and other exterior areas including open-air covered areas where lighting is required and is energized through the building's electrical service; and
- d. For new buildings and facilities including schools, housing projects, among others, and renovations in and extensions of existing facilities.

RULE IV METHODOLOGY

SECTION 5. Procedure.

All government entities that still use inefficient lighting systems shall, within one month from the effectivity of AO No. 183, formulate a phased-in lighting replacement program for submission to the DOE as provided in Form 1*, herein attached. (**Text Available at Office of the National Administrative Register, U.P. Law Complex, Diliman, Q.C.*)

The phased-in lighting replacement program shall be implemented and all inefficient lighting systems shall be replaced within one (1) year from the effectivity of this IRR

The agency shall likewise submit a monthly Compliance Report as provided in Form 2 in accordance with the submitted program described in Form 1.

a. For government entities/facilities which are already compliant with the provisions of An No. 183 and this IRR, they shall accomplish and submit the Compliance Report as provided in Form 2* attached herein to DOE with one (1) month from the effectivity of this IRR- (**Text Available at Office of National Administrative Register U.P Law Complex, Diliman Quezon City*)

b. The compliant and non-compliant government entities/facilities shall:

1 Establish lighting baseline data through the inventory of installed Lighting Systems.

2 Conduct lighting systems analysis to:

- i. Upgrade system using high efficiency fixtures, lamps and ballasts; and
- ii. Allow efficient lighting levels appropriate for use and application using as reference the revised Guidelines for Energy Conserving Design of Buildings available at the DOE website.

3 Establish potential for a delamping/reiamping program or reduction of lighting output (lower wattage rating) if illuminance of areas exceeds the levels as prescribed in the Revised Guidelines for Energy Conserving Design of Buildings.

4. Submit Palit-Ilaw Program to the DOE for compliance validation, as provided for in Form 1 including the mandatory replacements of the following:

- i. All 40-watt fluorescent lamp tubes (T12) including its electromagnetic ballast with 36-watt (T8) or less slim type lamp tubes and pre-heat low-loss and high ballast efficacy factor or electronic ballast;
- ii. All 20-watt fluorescent lamp tubes (T12) including its electromagnetic ballast with 18-watt (T8) or less slim type lamp tubes and pre-heat low-loss and high ballast efficacy factor or electronic ballast; and
- iii. All incandescent bulbs with compact fluorescent lamps (CFLs) of equivalent light output.

5 Submit compliance report to the DOE including computations for savings as provided for in Form 2.

c. All government entities shall comply with the proper disposal and management lamp waste as required by the DENR-EMB.

SECTION 6. Energy Conservation Officer (ECO).

All ECOs of government entities covered by these rules shall be responsible for implementing Section 5.

SECTION 7. EEL Procurement.

All EELs shall be PNS compliant and must have the appropriate ICC and/or PS mark of the DTI;

All EELs shall carry the applicable Energy Label; and