



## **IMPLEMENTING GUIDELINES OF THE PHILIPPINE ENERGY LABELING PROGRAM FOR LIGHTING**

Pursuant to Section 9 of Department Circular No. 2020-06-0015, entitled “Prescribing the Guidelines of the Philippine Energy Labeling Program (PELP) for Compliance of Importers, Manufacturers, Distributors and Dealers of Electrical Appliances and Other Energy-Consuming Products (ECP)”, the following guidelines for Lighting are hereby issued for the information and guidance of all those concerned and for compliance by all manufacturers, importers, distributors, dealers and other key stakeholders.

Furthermore, this Implementing Guidelines shall include the Particular Product Requirements (PPR) for Compact Fluorescent Lamps (CFL), Linear Fluorescent Lamps (LFL), Single-Capped Fluorescent Lamps (SCFL), Lamp Ballasts (BAL), Light Emitting Diodes (LED) Lamps, as well as its Code of Practice (COPE), and shall be known as the “Lighting IG”.

**1. Particular Product Requirement for Lighting.** The attached PELP Annex D.4 to D.8: PPR provides the requirements for CFL, LFL, SCFL, BAL, LED and other relevant information, which include the following:

- i. Scope
- ii. Definition of Terms
- iii. Normative References
- iv. Sampling Method for Verification Testing
- v. Product Verification Testing
- vi. Presentation of Results
- vii. Validity of Results
- viii. Minimum Energy Performance
- ix. Energy Efficiency Performance Rating (EEPR)
- x. EEPR Requirements
- xi. Specifications and Dimensions of Energy Label
- xii. Presentation of Energy Label
- xiii. Correction of Performance Ratings
- xiv. Validity of Energy Label
- xv. Information in the Label

**2. Code of Practice on Energy Labeling of Products.** Pursuant to Section 15 of the EEC Act, the Code of Practice on Energy Labeling of Products (COPE) provides for the calculation methods of the following:



2.1 The Energy Efficiency Performance Rating (EEPR) or the star rating shown in the DOE Energy Label is based on the Efficacy, which is calculated as follows:

$$\text{Efficacy} = \frac{\text{Lighting Output, in lumens}}{\text{Power Input, in watts}}$$

Where: **Efficacy** refers to the ratio of light output to power (lamp power) in terms of lumen per watt. Efficacy must be in whole number rounded to the nearest ones computed from the claimed rating.

**Lighting Output** must be in whole number rounded to the nearest tens.

**Power Input** must be in whole number rounded to the nearest ones.

For the actual EEPR or Star-Rating equivalent, please refer to the attached PPRs (Annex D.4 to D.8).

The EEPR reflected on the DOE Energy Label shall correspond to the Efficacy value shown in the product test report during product registration. The EEPR shall be adjusted accordingly (as needed) once the product has undergone verification testing.

2.2 For the estimation of **monthly energy kWh consumption** (based on a specified hour of daily usage), as shown in the DOE Energy Label, the calculation is as follows:

$$\text{Monthly kWh Consumption} = \text{Power Input} \times \text{Daily Operating Hours} \times 30$$

Where: **Power Input** is the determined electrical power required by the equipment to operate normally and is expressed in kilowatts (kW). This corresponds to the value declared by the applicant during product registration

**Operating Hours** is the assumed length of time that the equipment is operated in a day and is expressed in hours. With regards to the DOE Energy Label, this parameter is assumed to be 10 hours.

2.3 For the estimation of **monthly electricity cost**, the calculation is as follows:

$$\text{Monthly Electricity Cost} = \text{Monthly kWh Consumption} \times \text{Electricity Price}$$

Where: **Electricity Price** is the prevailing peso per kWh, as indicated in the electricity bill issued by an electric power distribution company.

2.4 For the estimation of **monthly Greenhouse Gas (GHG) emission** due to monthly electricity consumption, the calculation is as follows:

$$\text{Monthly GHG emission} = \text{Monthly kWh Consumption} \times 0.512$$

The unit of the calculated GHG emission shall be in kg of CO<sub>2</sub>.

**3. Submission of Documents.** All applicants are required to submit reportorial documents, necessary for Company Registration and Product Registration prior to the Issuance of DOE Energy Labels. The said forms, indicated in PELP IG Annex A, are as follows:

- PELP Form No. 1: Application for Company Registration under the Philippine Energy Labeling Program for Energy Consuming Products
- PELP Form No. 2: Undertaking to Abide by the Terms and Conditions of the Philippine Energy Labeling Program
- PELP Form No. 3: Application of Particular Product Registration under the Philippine Energy Labeling Program for Energy Consuming Products
- PELP Form No. 4: Product Sales Inventory Report

**4. Application Procedures for Compliance to PELP.** All manufacturers, importers and distributors of lighting systems shall observe the following application procedures stated in PELP IG Annex B and be subject to the following fees:

- 4.1 Company Registration amounting to PhP 1,600.00 per company
- 4.2 Product Registration amounting to PhP 300.00 per product model
- 4.3 Energy Label Issuance amounting to PhP 300.00 per issuance
- 4.4 Recognition of Testing Laboratories amounting to PhP 15,000.00 per testing facility

**5. Enforcement, Monitoring and Verification.** The DOE, through the EUMB, shall conduct enforcement, monitoring and verification activities in relation to PELP. The detailed procedures of which shall be specified in PELP IG Annex C: Guidelines for the Enforcement, Monitoring and Enforcement (EMV) of PELP.

**6. Effectivity.** This Lighting IG shall take effect fifteen (15) days following its publication in at least two (2) newspapers of general circulation. Copies of this IG shall be filed with the University of the Philippines Law Center – Office of the National Administrative Register.

Issued at Energy Center, Bonifacio Global City, Taguig City.

Approved by:

**PATRICK T. AQUINO, CESO III**  
Director, Energy Utilization Management Bureau