CFL Labeling Program in Indonesia

Awang Riyadi

Ministry of Energy and Mineral Resources Republic of Indonesia New Delhi, 4 October 2012



Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling
How to Comply



Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling Program
How to Comply



Final Energy Consumption (MTOE)



Primary Energy Supply (МТОЕ)



Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling Program
How to Comply



Policy Direction



Government Regulation on Energy Conservation



 Energy efficiency label should be implemented by producer and importer of energy appliances



Potential Saving from Household Appliances



Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling Program
How to Comply



Comparative Label (SNI 04-6958-2003)





Target Products for Labeling

- 2. Refrigerator
- 3. Room Air Conditioner
- 4. Television
- 5. Electronic Ballast
- 6. Electric Fans
- 7. Rice Cooker
- 8. Motor
- 9. Washing machine
- 10. Electric Iron







Wire nuts







Ballast







Progress of Testing Standard and Labeling

APPLIANCE	SNI SAFETY	SNI ENERGY PERFORMANCE	LABELING
CFL lamp	V	V	V
Refrigerator	V	V	DRAFT
Air Conditioner	V	V	DRAFT
Electric Fan	V	DRAFT	DRAFT
Rice Cooker	V	DRAFT	DRAFT
Electronic Ballast	V	V	Preparation
Electrict Motor	V	DRAFT	Preparation



Product Standardization Regulatory Regime

REGULATION AUTHORITY





Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling Program
How to Comply



CFL Labeling Program

- Objective : introducing energy saving level as a guidance for consumer and to promote energy efficiency
- Testing procedure : SNI IEC 60969 : 2009
- Label for energy saving marks : SNI 04-6958-2003
- Self Declaration of Conformity (SDoC)
- Legal basis for mandatory: Ministery Regulation (MEMR) No. 6/2011 on Energy Labeling for CFL was issued as a legal basis. Mandatory will be impose in May 2013
- CFL is a pioneer for Labeling Program



Object of the CFL Labeling

- Cool day light (6500K)
- □ HS Code: 8539.31.90.20
- Pre-requirement: it is mandatory to comply with safety standard of SNI 04-6504-2001 or it revision (fluoroscent lamp for general use – normative ref: IEC 60968: 1988, IEC 60695-2-1, IEC 60360, IEC 60238, IEC 60061-3: 1969, IEC 60061-1:1969)



Compliance criteria for labeled CFL

- Measured value of the power should be between +5% and -10% of the rated value
- 2. Maximum Total Harmonic 5 %.
- **3**. Lumen maintenance: after 2000 hours (include ageing period), the lumen should not less than 80% of it's claim.
- 4. Minimum life time 6.000 hours
- 5. Efficacy determined by lumen value (measured after 100 hours ageing period using integrated *Spherephotometer for 15 minutes)* divide by power consumed.



SDOC (Self Declaration of Conformity) System



4 star rating system

Combine the Comparative Label and MEPS

MEPS Minimum EE level for each category



Devues	$\begin{array}{ccc} & & & & & & & & \\ & & & & & \\ & & & & $				
Power (Watt)	1 Star	2 Stars	3 Stars	4 Stars	
5 -9	45 – 49	>49 – 52	>52 – 55	> 55	
10 – 15	46 – 51	> 51 – 54	> 54 – 57	> 57	
16 – 25	47 – 53	> 53 – 56	> 56 – 59	> 59	
≥ 26	48 – 55	> 55 – 58	> 58 – 61	> 61	

CFL Profile





Source: Palaloi, CFL Survey in Indonesia Market 2011, BPPT



6 (six) Brands have already submit the EE Label declaration:

1.Panasonic 2. Philips 3. Star Cosmos 4. GE Lighting 5. Osram 6. ACR

Content

Current Condition
Policy Direction
Labeling Program
CFL Labeling Program
How to Comply



Guidance for Implementation

 Guidance for implementing CFL Labeling : Director General of NREEC Regulation No. I287.K/06/DJE/2011



Submission of Declaration

- Producer/Importer submit it's declaration of conformity to Director General of New Renewable Energy and Energy Conservation
- Attachment:
 - Self Declaration of Conformity refers to SNI ISO/IEC 17050-1: 2010 (self declaration procedure of the suppliers-general requirements)
 - Copy of Testing Report



Pre-Requirements for the supplier:

- □ Fulfill the legal license :
 - □ industry/importer license
 - Brand register or license
- Implemented the Magement System Standard (SNI ISO 9001:2008 or it's revision/another equal standard)
- Producer should have it's own acredited testing lab or having partnership with acredited independent testing lab.
- Importer should have certificate of testing report of the product (CFL) from acredited testing lab that having mutually recognition agreement (MRA) with Acreditation Body of Indonesia (KAN/Komite Akreditasi Nasional) or they can test it in acredited testing lab in Indonesia



Acredited Testing Lab in Indonesia

(There are 8 testing lab capable to test according to SNI IEC 60969 : 2009 but only 2 are acredited)

Name of Laboratory	Accreditation	address
Puslitbang Teknologi	• Safety	Jl. Ciledug raya Kav. 109 Cipulir
Ketenagalistrikan dan Energi	• Performance	Kebayoran Lama, Jakarta Selatan
Baru Terbarukan (P3TKEBT) —		12230.
Kementerian ESDM		Telp: 021-720-3530, Fax: 021-720-
(Center Research for electricity, New,		3525.
Renewable Energy, and Energy		http://www.p3tkebt.esdm.go.id/i
Conservation – Ministry of Energy and		<u>ndex.php?lang=en</u>
Mineral Resources)		
Balai Besar Bahan dan Barang	• Safety	Jl. Sangkuriang No. 14 Bandung
Teknik (B4T) – Kementerian	• Performance	40135
Perindustrian		Telp: 022-2504088, 022-2504828,
(Center for Material and		022-2510682
Technical Product – Ministry of		Fax: 022-2502027
Industry)		http://www.b4t.go.id/lang/en/

Label Marking

- Packaging : Energy Efficient Label as SNI 04-6958-2003 (detail will be explained next)
- Lamp : Efficacy Value should be affixed in the lamp holder





The Label:

Energy Efficient Label



Images used for product labels on ballasted lamp refers to SNI number 04-6958-2003 about Purposes for Domestic Electricity – Energy Efficient Label (size can be adjusted to the size of packing light).

Lumen value according test result.

Model Name from manufacturers.

Number issued by the testing laboratory



The Detail: Size of the information

Size label shown in the figure is a measure that can be proportionally adjusted depend on the size of light packaging.



(milimeter)

The Detail: Picture



The Detail: Font

Word / Sentence	Font	Color	Thick & Border Color
" Tingkat Hemat"	Arial (Bold)	Black	Without Border
"Energi"	Bauhaus 93	White	Red (Pantone 483 C) Thick Line : 0.2 mm
" SEMAKIN BANYAK BINTANG SEMAKIN HEMAT"	Arial (Bold)	Black	Without Border
"MODEL PRODUK"	Arial (Bold)	Black	Without Border
"NO. REG."	Arial (Bold)	Black	Without Border
BACKGROUND COLOR LABE	L	White Glossy	
MATERIAL LABEL & ADHESI	٧E	Determined as needed.	



The Detail: Color



The Detail: Placement





CONTACT US

For more information please to contact:

Ministry of Energy and Mineral Resources

- Directorate General of New Renewable Energi and Energy Conservation
- Directore of Energy Conservation
- Address : Jl. Jenderal Gatot Subroto Kav. 49 Jakarta 12950
- Telp : 021-529-04235
- Fax : 021–255-29106
- Email : info@ebtke.esdm.go.id

Or to our website: <u>www.ebtke.esdm.go.id</u>



Format of the Submission Letter

(company letter head)

Nomor : 300/0000/00-300-300000 Date : About : Suppliers Declaration of Conformity Attachment : One file

Dear Directorate General of New Renewable Energy and Energy Conservation

Ministry of Energy and Mineral Resources

The undersigned is:

Name	:	
Position	:	
Company Name	:	
Company Address	:	

Submit a statement of compliance for suppliers of lighting products swaballast according to a form.

The Information contained in the Declaration of Conformity Supplier is true. If the future there is a deviation from the truth of the information in this statement, we are ready to accept the consequences in accordance with laws and regulations.

Such statements are made as tagging requirements on energy saving mark balasted lamps.

seplace and datess



<<Name, Position >>

Format of the Declaration

- 1. Contain the name and address of the company issuing the declaration of conformity.
- 2. In this declaration, the object is self ballasted lamp being labeled.
- 3. Contain Informations :
- 4. Name/Type Product/ Type Swaballast Lamps
- Name of Manufacturers/Brand Holder that manufacture or import swaballast
- 6. Efficacy (lumen/watt) is ratio value between the powerful light generated (lumens) and ballasted lamp power (watts).
- 7. The number of stars indicates the level of energy efficiency (the more stars the more efficient) and filled according to the table based on the value of its efficacy criteria on energy-saving mark ballasted lamp.
- 8. The number of products containing the estimated amount swaballast lighting products manufactured / imported for one year by the publication of the Declaration of Conformity.
- Additional Information contains additional information supporting the statement of compliance, such as a sign or label similar energy saving abroad that have been obtained, the reference testing laboratory accreditation document, attachment test results, and others.
- 10. Contains the name of the testing laboratory and its signature, official name and seal / stamp test lab.
- 11. Contains the name of the company issuing the declaration of conformity with the signature, official name and seal / stamp of the company.

(Company letterhead)

Deolar	ation of	Conformi	ty Supplier

 Issuer's Name 	:
-----------------------------------	---

Issuer's Address

Object of declaration : Self balasted lamps

(3) The object of the declaration as detailed below is in conformity with the certificate of testing report as attched:

Name / Type of Product	Manufacturers / Brand Holder	Efficacy (LumenWatt)	Star Level	estimated amount of product labeled

	Additional Information:	
(4)		
	splace and date >>	
(5)	Name of Test Laboratory	(6) Signed for and behalf of
	< <name, &="" laboratory="" position="" stamp="">></name,>	< <name, &="" company="" position="" stamp="">></name,>

THANK YOU

