



STANDARD AND LABELING FOR HOME APPLIANCES IN INDONESIA

Directorate General New Renewable Energy and
Energy Conservation
Ministry of Energy and Mineral Resources
Japan, 1st February 2013



OUTLINE

1.

- **Current Condition**

2.

- **EE Policy and Regulation**

3.

- **Labeling Program in Indonesia**

4.

- **Conclusion**

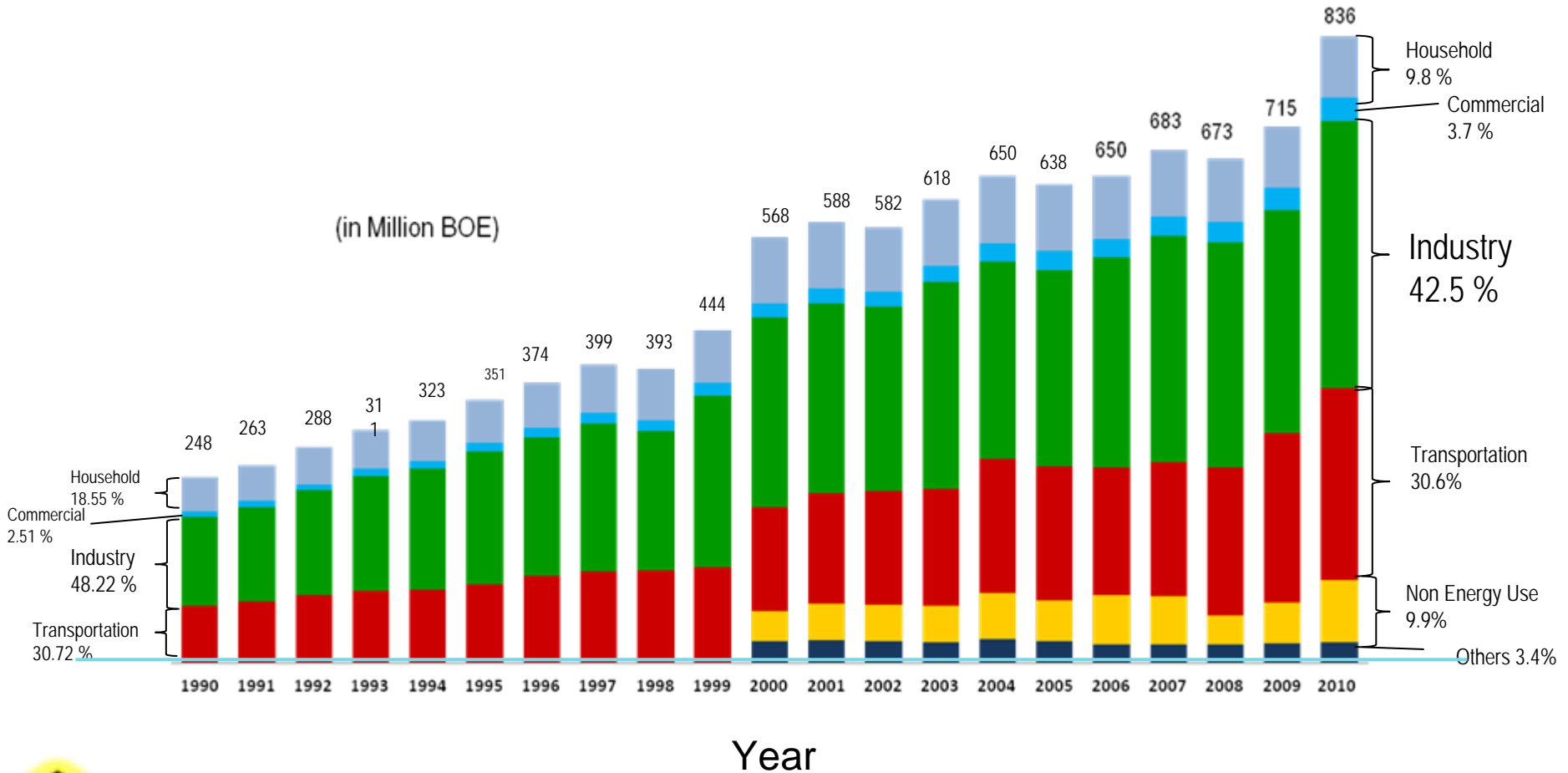


1.

• Current Condition

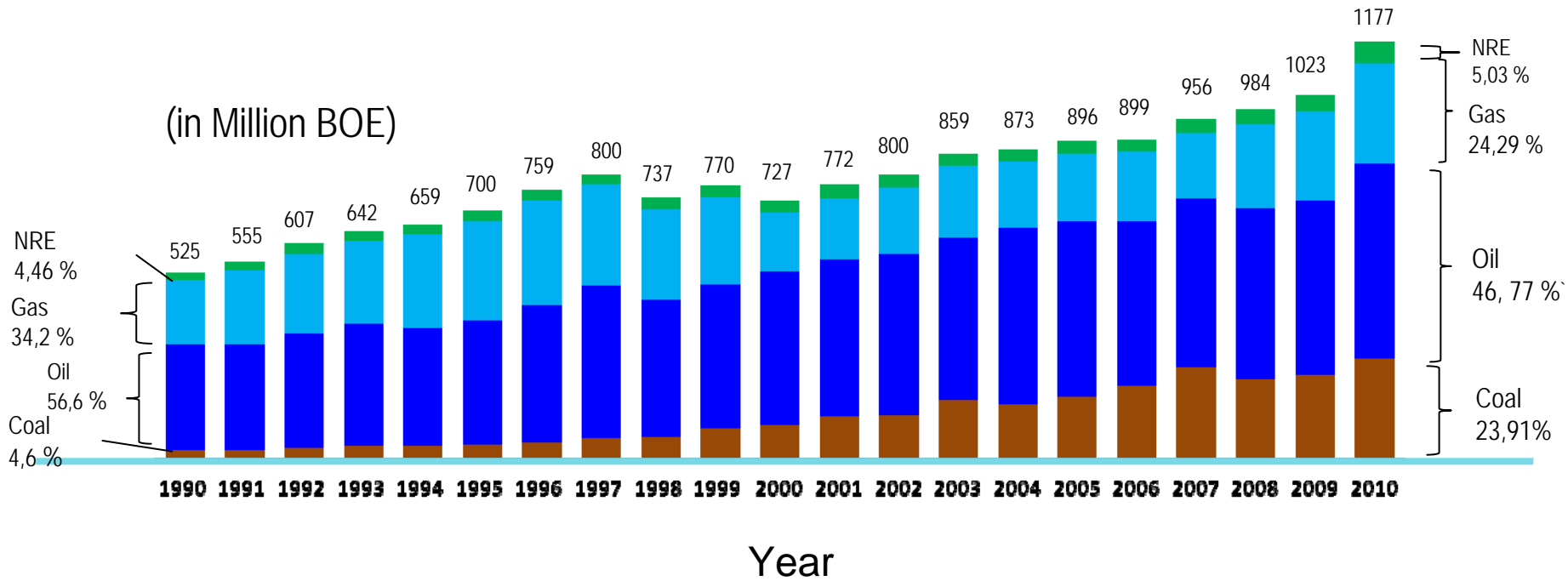
GROWTH OF NATIONAL ENERGY DEMAND

1990 - 2010



GROWTH OF NATIONAL ENERGY SUPPLY

1990 - 2010



POTENTIAL OF ENERGY CONSERVATION

Sector	Potential of Energy Conservation (%)
Transportation	35
Household	30
Commercial	25
Industrial	18

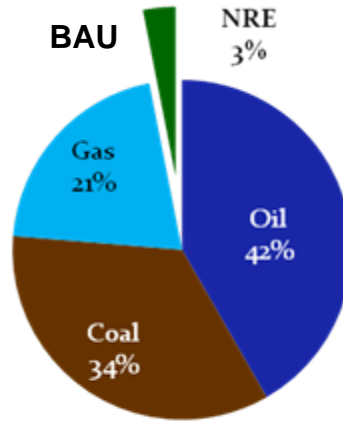
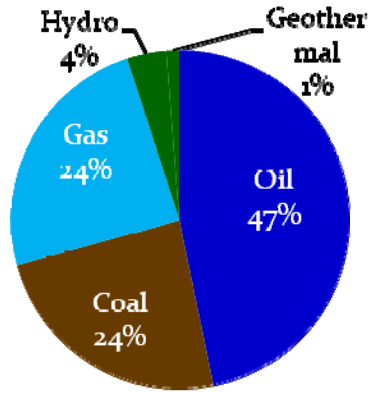
Source : RIKEN



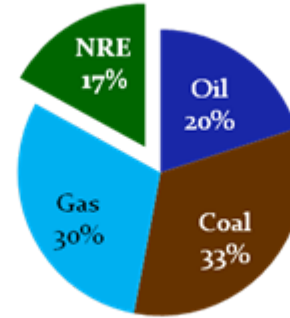
2.

- **EE Policy and Regulation**

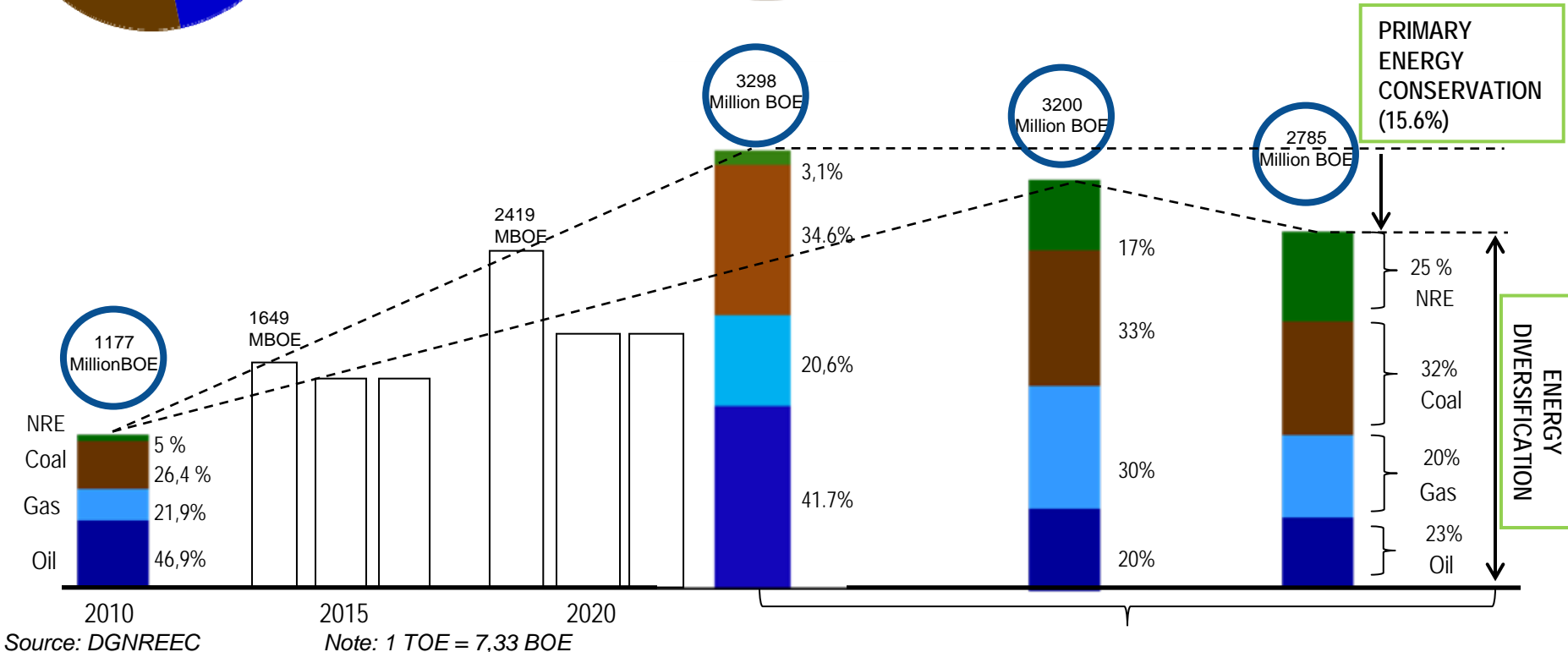
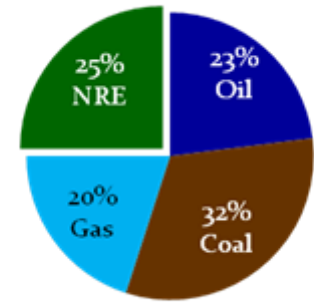
ENERGY POLICY DIRECTION



Presidential Regulation No. 5/2006



VISION 25/25

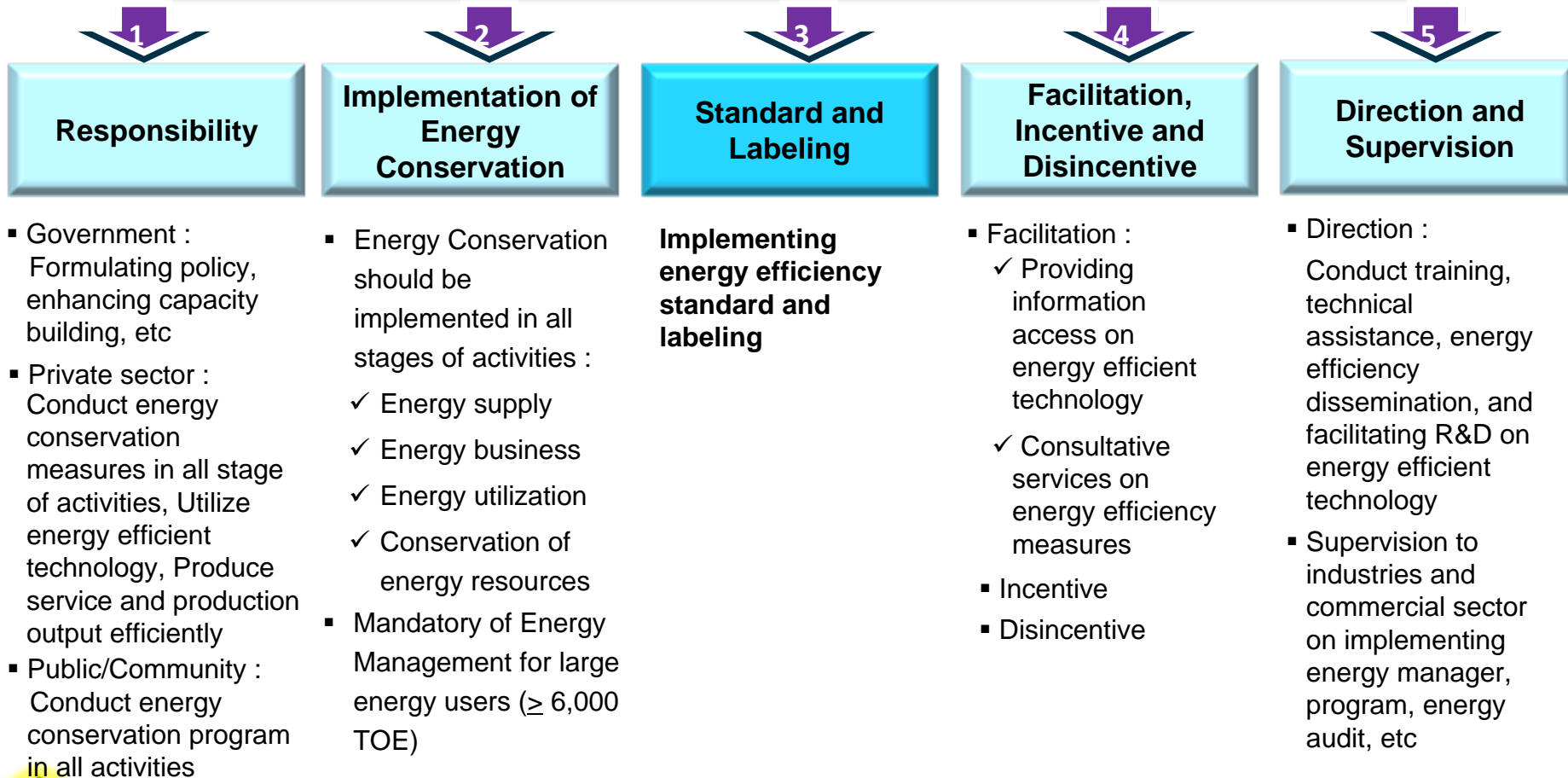


Source: DGNREEC

Note: 1 TOE = 7,33 BOE

LAW NO. 30 / 2007 ON ENERGY

GOVERNMENT REGULATION No.70/2009 ON ENERGY CONSERVATION



3.

- **Labeling Program in Indonesia**

Background

- Home appliances installed in the urban as the target for energy efficiency promotion
- Lamp, air conditioning, tv, refrigerator will be replaced by the efficient ones
- Labelling system is regulated under the Energy Conservation government regulation and it is one of the ways to promote the efficient home appliances

Standar and Label

(Government Regulation no. 70/2009 Article 16)

adoption and enforcement of energy performance



level of energy efficiency labeling



Energy Efficiency label contains information about the level of equipment energy utilization

conducted by the manufacturers and importers of energy utilization equipment in stages according to labeling procedures



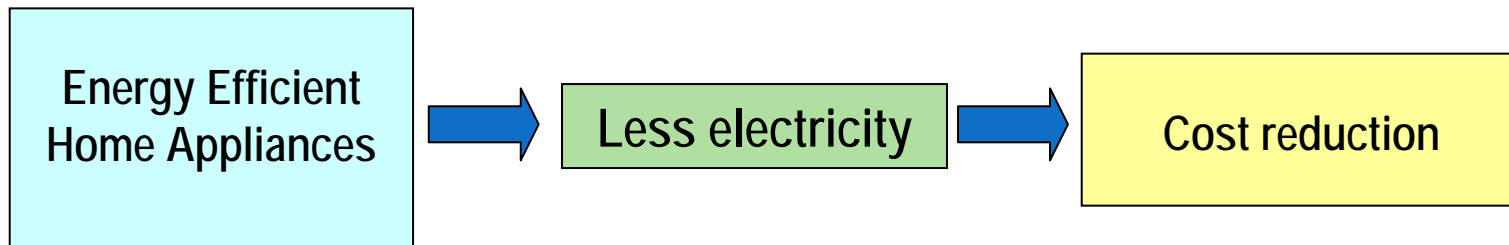
The use of technology energy efficient in the community



Opportunities: Why Labelling System?

For Consumers :

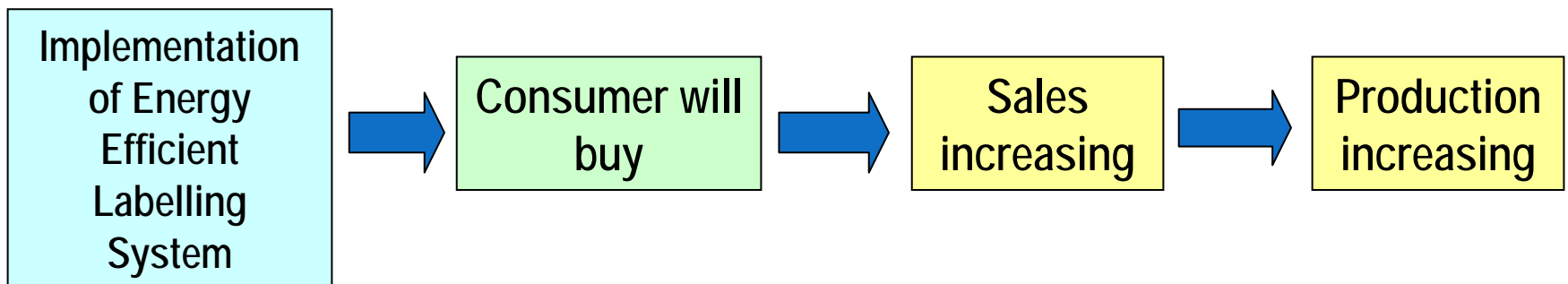
1. As an option for smart consumers to have a good product which have an efficient performance
2. Lessen electricity consumed



Opportunities: Why Labelling System?

For Producers :

1. To ease producers to inform their efficient product directly to their consumers
2. As additional feature/information of the product itself, it is expected by doing this will grow the selling volume



Target Products for Labeling

1. Compact Fluorescent Lamp



2. Refrigerator



3. Room Air Conditioner



4. Television



5. Electronic Ballast



6. Electric Fans



7. Rice Cooker



8. Electric Motor



9. Washing machine

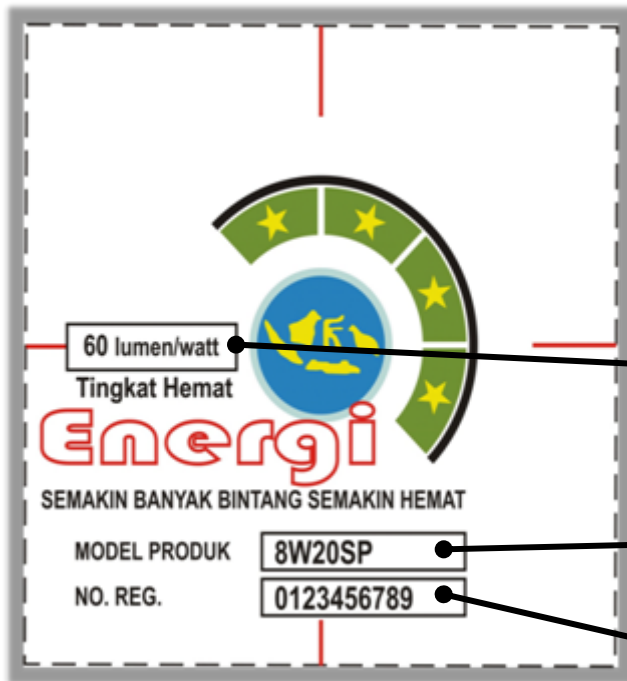


10. Electric Iron



ENERGY EFFICIENCY LABEL : SNI 04-6958-2003

Images used for labeling on CFL refer to SNI number 04-6958-2003 about Electricity for Domestic Purpose-Energy Efficiency Label, whose size can be adjusted to the size of packaging light.



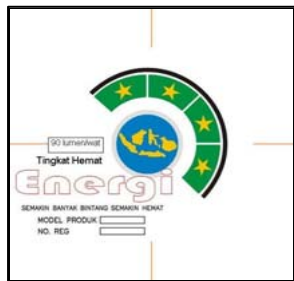
EE level

Product model

Registration No.

PRODUCT STANDARDIZATION POLICY AND REGULATION AUTHORITY

REGULATION AUTHORITY



**ENERGY
EFFICIENCY**

**PERFORMANCE
STANDARD**

**SAFETY
STANDARD**

SNI

STANDARDIZATION

**MINISTRY OF
ENERGY AND
MINERAL
RESOURCES**



**MINISTRY OF
INDUSTRY**



DISTRIBUTION

**MINISTRY OF
TRADE**



**DEPARTEMEN PERDAGANGAN
REPUBLIK INDONESIA**

NEED AN INTENSIVE AND CLOSE COORDINATION AMONG THOSE MINISTRIES

Current condition:

Progress of Testing Standards and Labeling home appliances

APPLIANCE	SNI SAFETY	SNI ENERGY PERFORMANCE	LABELING
CFL lamp	Done	Done	Done
Refrigerator	Done	Done	DRAFT (2012)
Air Conditioning	Done	Done	DRAFT (2012)
Fan	Done	DRAFT (2012)	DRAFT (2013)
Rice Cooker	Done	DRAFT (2012)	DRAFT (2013)
Ballast Electronic	Done	DRAFT (2012)	Under Preparation
Electric Motor	Done	DRAFT (2012)	Under Preparation

Energy Labelling for CFL

(ESDM Ministerial Regulation No.6 Year 2011)

- Signed on 19 April 2011
- Manufacturer or importer must issue a statement of compliance (declaration of conformity) in writing stating that it meets the CFL regulation.
- Declaration of conformity submitted to the Ministry of Energy and Mineral Resources c.q DGNREEC.
- Violations of the provisions of the declaration of conformity shall be penalized in accordance with the provisions of the legislation.
- CFL domestic products that do not have energy efficiency label will be withdrawn from circulation.
- CFL import products that do not have energy efficiency label will be banned from Indonesian customs area and must be re-exported or destroyed.
- This regulation will be applied after 24 (twenty four) months since the regulation signed.



Technical Guidance Implementation

Declaration of Conformity for CFL

(DGNEREC Regulation No.1287.K/06/DJE/2011) (1)

- Signed on 16 Desember 2011
- Energy Efficiency Label conducted at:
 - ✓ Packaging CFL, and
 - ✓ CFL products.
- Packaging CFL shall be affixed in accordance with SNI 04-6958-2003.
- CFL Product shall include the value of efficacy [lumen / watt]
- manufacturer or importer must issue a Declaration of Conformity in writing with the Director-General of New Energy, Renewable Energy and Energy Conservation, Ministry of Energy and Mineral Resources, using the format as contained in the annex of this DGNEREC Regulation.

Technical Guidance Implementation Declaration of Conformity for CFL (DGNEREC Regulation No.1287.K/06/DJE/2011) (2)

- Procedures of Suppliers Declaration of Conformity (SDoC) in accordance with ISO / IEC 17050-1:20 "Conformity assessment-Declaration of conformity supplier-part 1: General requirements."
- Energy Efficiency Label can be implemented, if:
 - a) Manufacturer / importer has fulfilled the administrative requirements, including:
 - 1) industrial business license (IUI);
 - 2) a certificate or a brand list issued by the Directorate General of Intellectual Property Rights (IPR) of the Ministry of Justice and Human Rights;

Technical Guidance Implementation Declaration of Conformity for CFL (DGNEREC Regulation No.1287.K/06/DJE/2011) (3)

- b) Manufacturer has implemented a Quality Management System (QMS) in accordance with ISO 9001:2008 or its revision.
- c) Manufacturer have testing equipment in accordance with the requirements of ISO IEC 60969:2009
- d) Importer has gotten the Certificate of Test Results (SHU) from an accredited testing laboratory in the country that have mutual recognition agreements with NAC (KAN), and the scope of accreditation in accordance with ISO IEC 60969:2009 for CFL or from accredited testing laboratories in Indonesia.

Criteria Energy Efficiency Label For CFL

Power (watt)	Efication Value (lumen/watt)			
	★	★ ★	★ ★ ★	★ ★ ★ ★
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

Source: Ministry Energy Regulation No. 06 year of 2011

Suppliers Declaration of Conformity (SDoC) Form for CFL

LAMPIRAN PERATURAN DIREKTUR JENDERAL ENERGI BARU TERBARUKAN DAN KONSERVASI ENERGI

NOMOR : 1287.K/06/DJE/2011
TANGGAL : 16 DESEMBER 2011

I. FORMAT SURAT PENGANTAR

(Kop Surat Perusahaan)

Nomor : XX/XXXX/XX-XX-XXXX
Tanggal :
Hal : Pernyataan Kesesuaian Pemasok
Lampiran : Satu berkas

Kepada Yth.

Direktur Jenderal
Energi Baru Terbarukan dan Konservasi Energi
Kementerian Energi dan Sumber Daya Mineral

Yang bertanda tangan di bawah ini, kami:

Nama :
Jabatan :
Nama Perusahaan :
Alamat Perusahaan :

menyampaikan pernyataan kesesuaian pemasok untuk produk lampu swabalast sesuai dengan format yang telah ditetapkan.

Informasi yang tercantum dalam Pernyataan Kesesuaian Pemasok adalah benar. Apabila dikemudian hari terdapat penyimpangan terhadap kebenaran informasi dalam pernyataan tersebut, kami siap menerima konsekuensi sesuai ketentuan peraturan perundang-undangan.

Demikian surat pernyataan ini dibuat sebagai persyaratan pembubuhan label tanda hemat energi pada lampu swabalast.

<<Tempat dan tanggal pernyataan>>

Materai
Rp. 6000

<<Nama, Jabatan >>

II. FORMAT PERNYATAAN KESESUAIAN PEMASOK

(Kop Surat Perusahaan)

Pernyataan Kesesuaian Pemasok

Nama penerbit pernyataan kesesuaian :

Alamat penerbit pernyataan kesesuaian :

Obyek pernyataan :

Tujuan pernyataan yang disebutkan diatas adalah pernyataan kesesuaian dokumen berikut:

Nama/ tipe produk	Nama Produsen/importer/pemegang merek	Efikasi (Lumen/ Watt)	Jumlah Bintang	Jumlah Produk
.....
.....
.....

Informasi tambahan:

.....
.....

<<Tempat dan tanggal penerbitan>>

Ditandatangani untuk dan atas nama:

Laboratorium Uji

.....

.....

.....
<<Nama, Jabatan >>

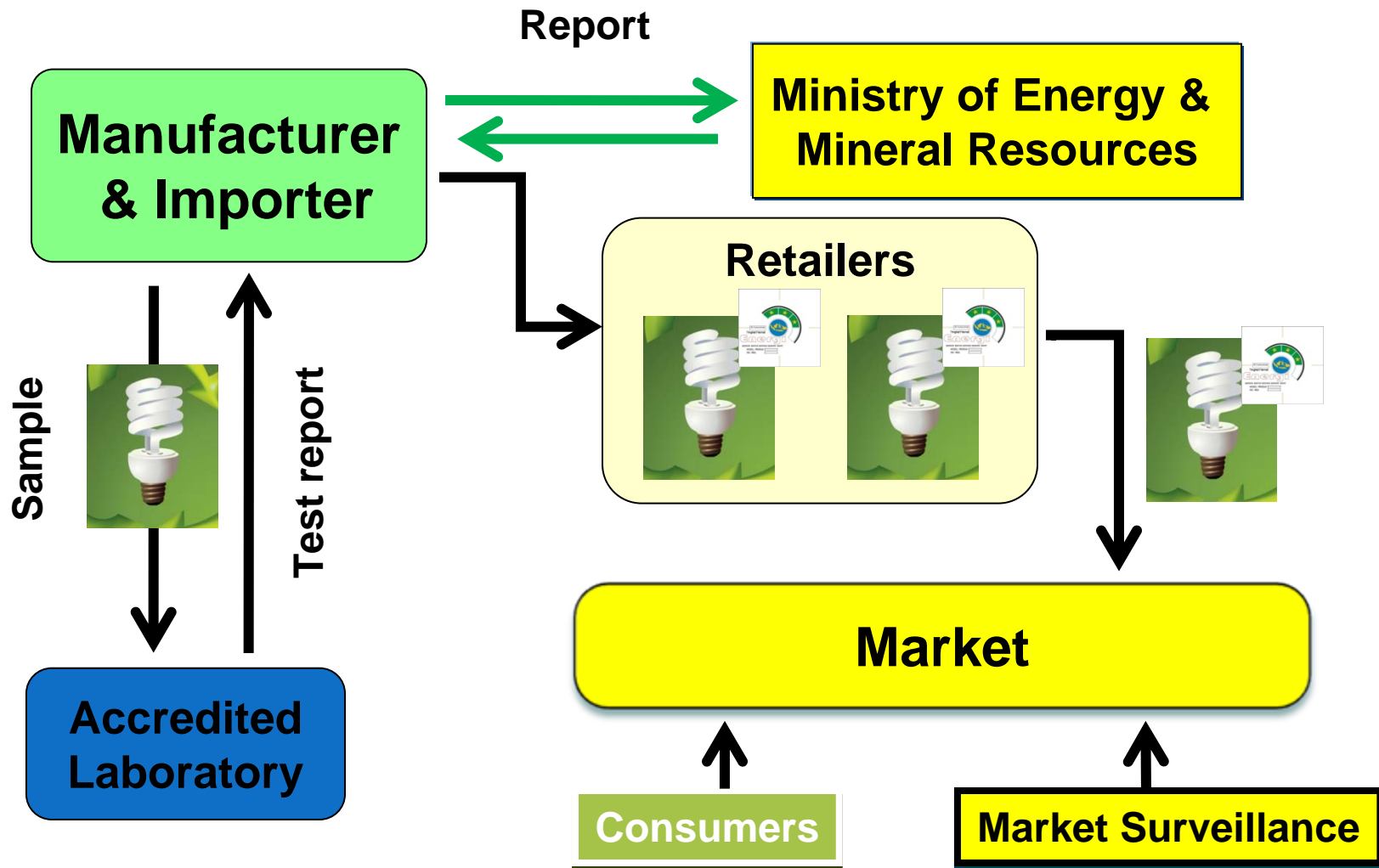
.....
<<Nama, Jabatan & cap lab penguji>>

Ditetapkan di Jakarta
pada tanggal
Direktur Jenderal,



KARDAYA WARNIKA

SELF-DECLARATION OF CONFORMITY (SDoC) PROCESS FOR CFL

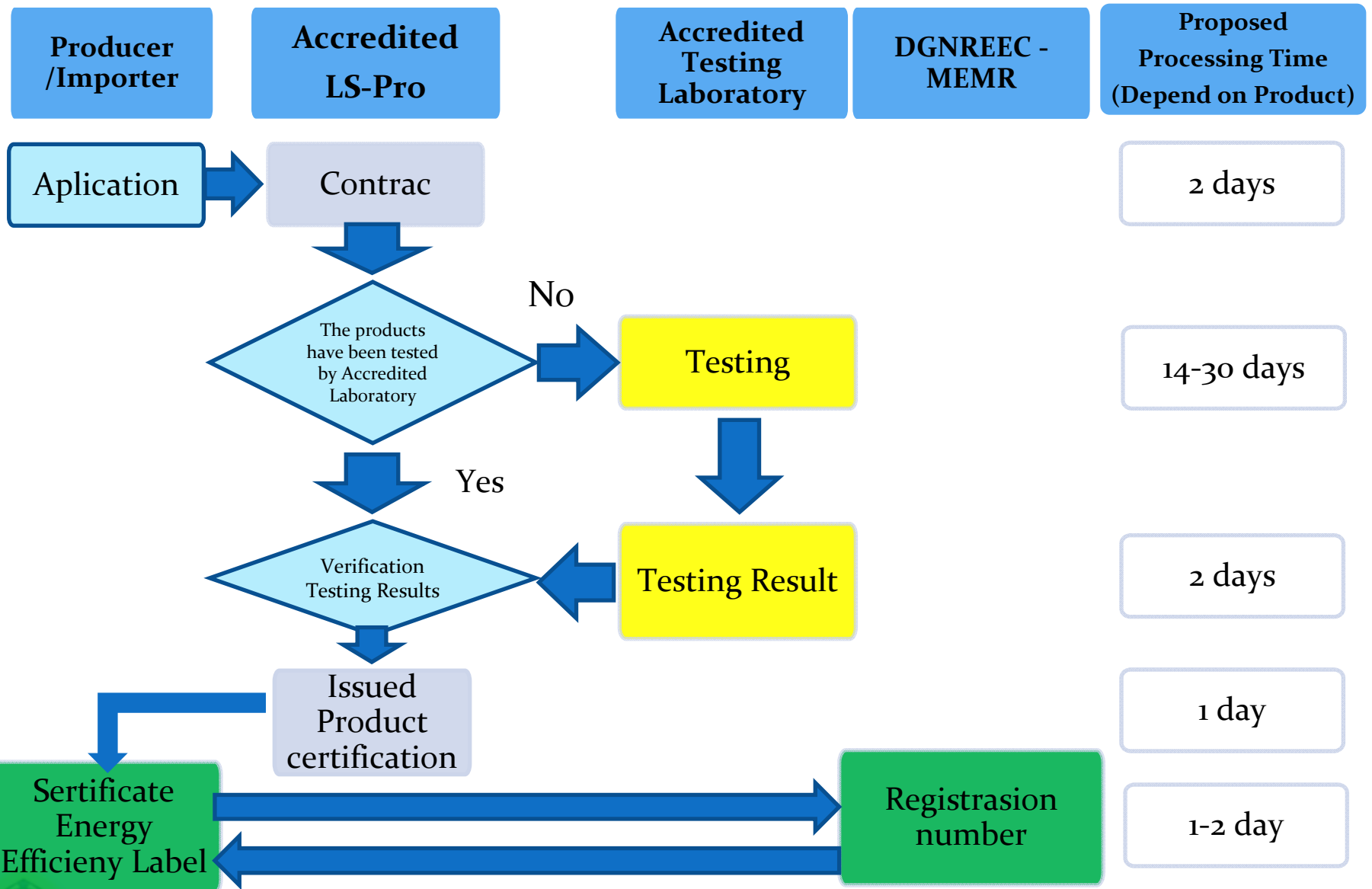


Manufacturers have already provided SDoC for CFL Products

Until now there are 6 (six) manufacturers that have already provided SDoC for CFL Products:

- 1. PT Panasonic Indonesia**
- 2. PT Philips Lighting Indonesia**
- 3. PT Star Cosmos**
- 4. PT GE Lighting Indonesia**
- 5. PT Panca Aditya Sejahtera (ACR)**
- 6. PT OSRAM Indonesia**

Procedure for Affixing Energy Efficiency Label on AC & Refrigerator



Criteria Energy Efficiency Label for AC (Draft)

Type	1 Star ★	2 Stars ★ ★	3 Stars ★ ★ ★	4 Stars ★ ★ ★ ★
Inverter	$9,01 \leq \text{EER} < 9,96$	$9,96 \leq \text{EER} < 11,40$	$11,40 \leq \text{EER} < 12,83$	$12,83 \leq \text{EER}$
Non-inverter	$8,53 \leq \text{EER} < 9,01$	$9,01 \leq \text{EER} < 9,96$	$9,96 \leq \text{EER} < 10,41$	$10,41 \leq \text{EER}$



Criteria Energy Efficiency Label for Refrigerator (Draft)

Without freezer (do not have freezing capacity)

Star Rating	Energy Consumption/year (kWh/year)
1-Star (☆)	$\leq 465 + (1.378 \times V_{adj}) \times 1.15$
2-Star (☆☆)	$\leq 1\text{-Star} \times 0.77$
3-Star (☆☆☆)	$\leq 2\text{-Star} \times 0.77$
4-Star (☆☆☆☆)	$\leq 3\text{-Star} \times 0.77$

With freezer (have freezing capacity)

Star Rating	Energy Consumption/year (kWh/year)
1-Star (☆)	$\leq 465 + (1.378 \times V_{adj}) \times 1.55$
2-Star (☆☆)	$\leq 1\text{-Star} \times 0.77$
3-Star (☆☆☆)	$\leq 2\text{-Star} \times 0.77$
4-Star (☆☆☆☆)	$\leq 3\text{-Star} \times 0.77$

Sanction (Draft)

- Refrigerator & Air Conditioning without energy efficiency label will be withdrawn from circulation.
- Refrigerator & Air Conditioning that imported without energy efficiency label will be banned from Indonesian customs area and must be re-exported and / or destroyed by the importer under the supervision of competent authorities.
- Manufacturer who against the rule will be sanctioned in accordance with the legislation.

Enforcement Energy Efficiency Label for AC & Refrigerator (Draft)

- ESDM Ministerial Regulation will be applied after nine (9) months since the regulation signed.
- For products that have been circulated before enforcement ESDM Ministerial Regulation, will be given a period of 18 (eighteen) months to be withdrawn since the regulation signed.

TESTING PRICE IN P3TKEBT LABORATORY

According to Government Regulation no. 9/2012

TESTING	PRICE
1. CFL lamp	Total Safety and performance: 45,95 million Rupiah / 5 pieces
✓ Safety	1,75 million Rupiah / 5 pieces
✓ Performance (Energy Efficiency)	
➤ Dimension testing	900 thousand Rupiah / 5 pieces
➤ Ignition testing	3,8 million Rupiah / 5 pieces
➤ Power quality testing	4,8 million Rupiah / 5 pieces
➤ Flux Lumen testing	4,8 million Rupiah / 5 pieces
➤ Lumen maintenance testing	8,6 million Rupiah / 5 pieces
➤ Aging testing	21,3 million Rupiah / 5 pieces
2. Refrigerator (Safety or performance)	10,45 million rupiah / 3 pieces
3. AC (Safety or performance)	9,9 million rupiah / 3 pieces
4. Fan (Safety or performance)	6,6 million rupiah / 3 pieces
5. Rice cooker (Safety or performance)	6,6 million rupiah / 3 pieces

Action Plan: Labelling System for Other Products

PRODUCT	Year				
	2011	2012	2013	2014	2015
Refrigerator and AC					
Electronic ballast, Electric Fan, TV					
Rice Cooker and Electric Motor					
Electric Iron and Washing Machine					



3.

- **Conclusion**

Conclusion

The labelling system will succeed with the support of:

- 1. Consumer's awareness**
- 2. Good governance**
- 3. Good supervision**
- 4. The infrastructure readiness**
- 5. The producers readiness**

Thank You



Go Green Indonesia !

energi hijau, energi masa depan



KEMENTERIAN ENERGI DAN SUMBER DAYA MINERAL REPUBLIK INDONESIA
DIREKTORAT JENDERAL ENERGI BARU, TERBARUKAN, DAN KONSERVASI ENERGI

Jalan Jenderal Gatot Subroto, Kav. 49 Jakarta 12950; Telp/Faks : 021-5250575