



經濟部能源局

BUREAU OF ENERGY, MINISTRY OF ECONOMIC AFFAIRS



# The Promotion of Energy Standard and Labeling programs in Chinese Taipei

Bureau of Energy  
Ministry of Economic Affairs  
Chinese Taipei

# MEPS Draft for proposed products




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Type of Device	MEPS Draft Finished date	Efficiency increased □%□	Expected saving □100 milliom kWh□
Storage water heater	2008	10~20%	0.2
Electric Pot	2008	10~20%	0.24
Electric water dispenser	2008	10~20%	0.24
Clothes washer	2009	10%	0.05
Clothes dryer	2009	10%	0.05

**Note:** 1. Efficiency increased compared with the average energy efficiency of the products  
2. The draft of MEPS of the proposed products have not been finalized.

## Energy Conservation Labeling program --Endorsement Labels

- ❖ A voluntary program to encourage the manufacturers/importers to develop/import the high energy efficiency products
- ❖ To encourage the consumers to buy high-efficiency products and to enhance the high-efficiency products market transformation.
- ❖ It has been implemented since 2001, and its targeted products are the home appliances, lightings, office equipments, gas burning appliances and vehicles.
- ❖ The top 15% to 30% efficient products on the market will receive this label accreditation. Taiwan's Energy Label ([Energy Conservation Labeling](#) ) is similar to the United States' Energy Stars programs.

# The Energy Standard & Labeling Programs



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## Benchmarks for Energy Label Products(29 product Categories)

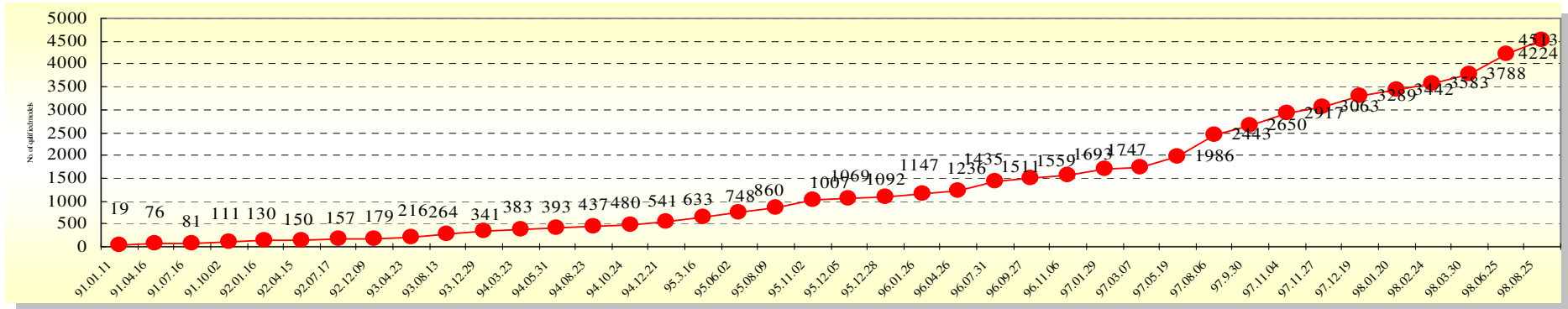
Year	Categories
2001	(1)air-conditioners (2) refrigerators (3) dehumidifiers (4) clothes dryers
2002	(5)TVs (6) clothes washers (7) electric (8) fans, fluorescent lamps ( $\geq 32$ W)
2003	(8)fluorescent lamps ( $\square 32$ W) (9)hair dryers (10) hand dryers
2004	(11)warm-hot water dispensers (12) chilled-warm-hot water dispensers
2005	(13) chilled-warm-hot drinking fountains (14) automobiles & light trucks (15) motorcycles (16) self-ballasted fluorescent lamps
2006	(17) thin film transistor-liquid crystal display (18) instant gas burning water heaters (19) gas burning cooking appliances (20) electric rice cookers
2007	(21)Electric Storage Water Heaters (effective on Jan. 1, 2008)(22) Electric Pots (23) Exit Lights and Emergency Direction Lights(24) DVD Products
2008	(25)Warm-hot drinking fountains (26) Lighting fixtures (27) Integrated Stereo
2009	(28)Compact fluorescent lamps (29)copy machine

**3,627** Energy Conservation Labeling qualified models with **229** brand names on Sep. 10, 2009

# The Achievement of labeling program

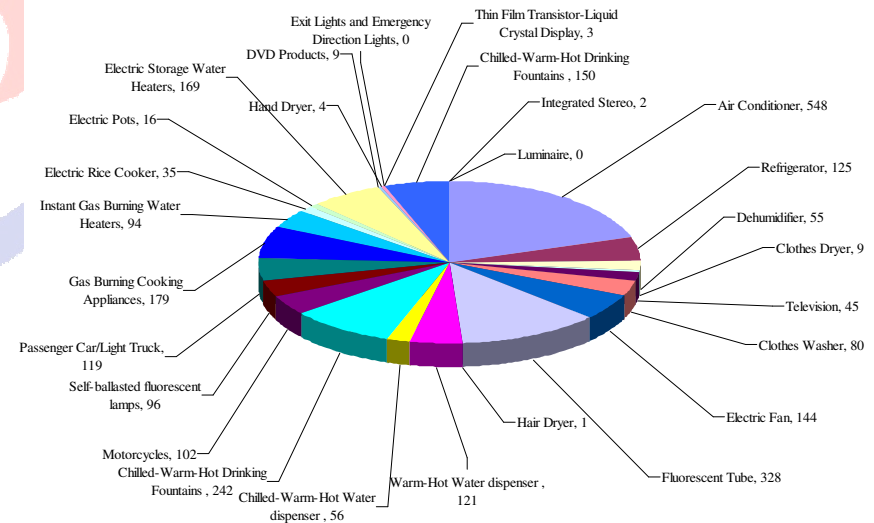
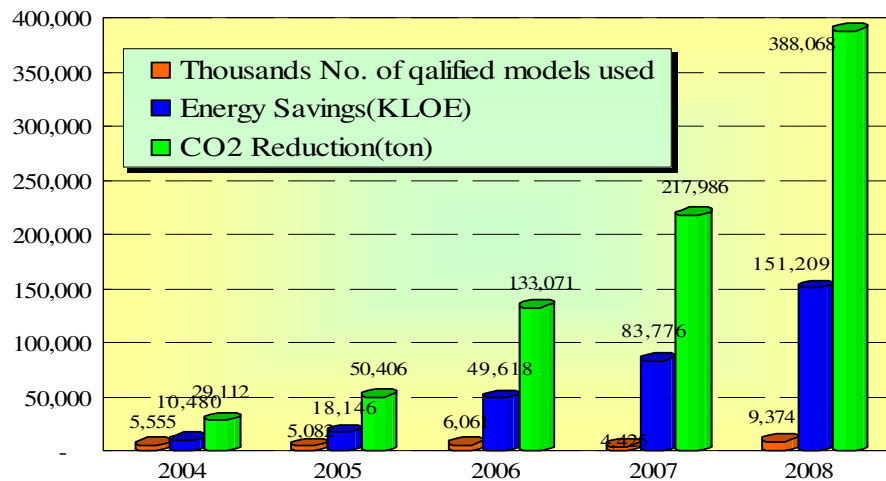


## No. of Energy Conservation Labeling qualified models



Over 64 million Energy Conservation qualified models have been used.(2009.9)

## Energy Saving Statistics for the Energy Conservation Labelings



About 313 thousand KLOE were saved From 2004 to 2008 to avoid greenhouse gas emissions equivalent to 818 thousand tons of CO2.

# The Achievement of labeling program



## The Energy Conservation Labeling Rebate Program

### ■ Policy Origin

As part of the “Economy Prospering Program” of the Executive Yuan this rebate program will achieve the purpose of **carbon emissions reduction, energy saving and prosperity stimulation** by rewarding consumers who purchase air conditioners, refrigerators and clothes washers certified with Energy Conservation Labeling.

### ■ Objective

The six-month sales of air conditioners, refrigerators and clothes washers certified with Energy Conservation Labeling increase from 122 thousands units to 265 thousands units, with a total sales amount of 9 billion NTD. **The annual energy consumption is saved by 41.6 million kWh while the CO<sub>2</sub> emission is reduced by 26 thousands tons.**

### ■ Duration

from Oct. 1, 2008 to Mar. 31 2009. Consumers are allowed to apply until Apr. 30, 2009.

### ■ Promotions

Detailed information is advertised via media and posters. An official website and a call center have been set up to provide counseling services to consumers.

### ■ Achievements

**the number of qualified rebate applications is 269,962, and the cumulative rebate amount is 539,924,000 NTD.**

**The total sales for rebate products increase 59.5% compared with the same period of last year.**





# The Achievement of labeling program



## Informative Voluntary Energy Efficiency Label

### ■ Purpose

By recognizing the Voluntary Energy Efficiency Label which unveils the information of **energy efficiency** and **annual energy consumption** for both the product itself and equivalent products, consumers are **encouraged to purchase** products with high energy efficiency and low annual energy consumption, and the objective of energy saving can be achieved.

### ■ Scope

Priority labeling items include **air conditioners**, **refrigerators**, and **clothes washers**, which together account for 50% of the household energy consumption (lighting equipments excluded).

### ■ Partnership

**19 manufacturers** voluntarily participate in this program, while **7 major chain stores** also commit to assist the promotion activities by posting the promotion posters and exhibiting certified products with Voluntary Energy Efficiency Labels.

### ■ Promotion

- ✓ Holding “the Voluntary Energy Efficiency Label Initiation Ceremony” on March 13, 2009, days before **the World Consumer Day**.
- ✓ Promoting the label via poster, print media, and TV media.



Voluntary Energy Efficiency Label Illustration



The Voluntary Energy Efficiency Label Initiation Ceremony. From left to right, Mr. Johnsee Lee, President of ITRI, Mr. Chen-Chung Deng, Deputy Minister, MOEA, Mr. Cheng-hsiung Chiu, Vice Premier, Mr. Huey-Ching Yeh, Director - General, BOE, MOEA, and the representatives of manufacturers and chain stores.



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# The Establishment of our Comparative labeling program



# Energy Management Law Article 14

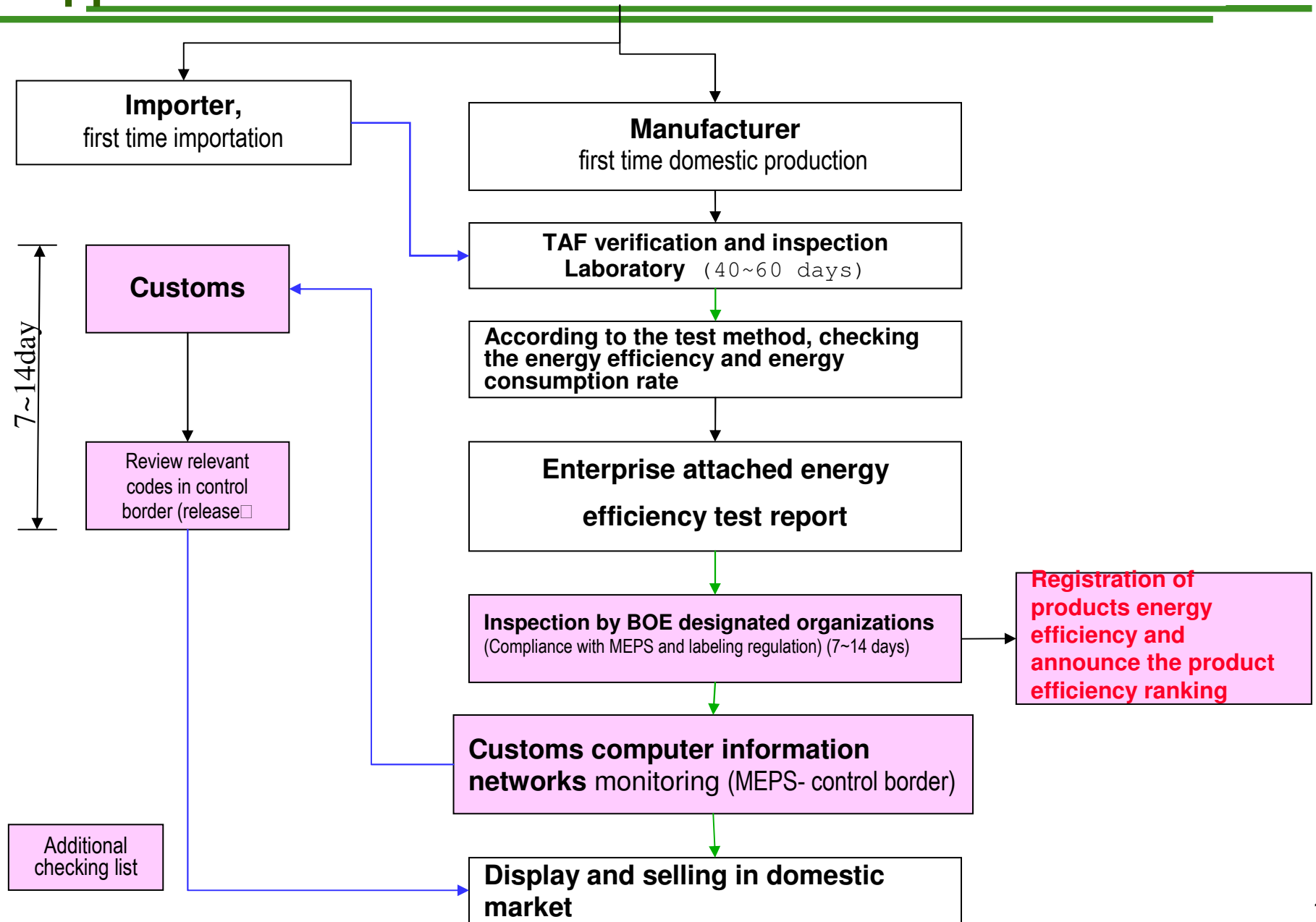


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Article	Scope	Target
<p>The energy utilization facilities or apparatus, which are designated by the central competent authority, manufactured by local manufacturers or imported by merchants for domestic use should conform to the permit standards of energy consumption set up by the central competent authority. Meanwhile, <b>the said facilities or apparatus should be provided with a label which indicates energy consumption rate and the energy efficiency.</b></p> <p>The central competent authority may designate the appropriate organizations or professional technicians for testing and verifying the above-stated energy utilization facilities or apparatus. If the findings reveal that the above-stated facilities or apparatus fail to conform to the permit standards of energy consumption, such facilities or apparatus should be prohibited from importing or selling on the domestic market.</p> <p>If the findings reveal that the above-stated facilities or apparatus fail to use the permit standards nameplate, such facilities or apparatus should be prohibited from display or selling on the domestic market.</p> <p>The central competent authority should announce the appropriate MEPS branch mark and its test method, and the labeling, verification and test method for energy consumption amount and energy efficiency.</p>	<ul style="list-style-type: none"> <li>① MEPS of designated energy utilization facilities or apparatus</li> <li>② Mandatory energy efficiency labeling of designated energy utilization facilities or apparatus</li> </ul>	<ul style="list-style-type: none"> <li>① Use MEPS to eliminate low energy efficiency products</li> <li>② Use Mandatory energy efficiency labeling to lead the customers to choose high energy efficiency products, to achieve saving energy and reducing carbon emission target.</li> </ul>

# Management Process of Designated Energy Apparatus



# Candidates of comparative label



中華民國能源效率標示

冷氣機

★★★★☆

型號：XXXX

額定總冷氣能力：      kW  
能源效率比：            (W/W)  
年耗電量：                度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

中華民國能源效率標示

冷氣機

★★★★☆

型號：XXXX

額定總冷氣能力：XX      kW  
能源效率比：X            (W/W)  
年耗電量：XXX            度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

星星愈多能源效率愈高愈省電

中華民國能源效率標示

冷氣機

型號：XXXX

額定總冷氣能力：XX kW  
能源效率比：X (W/W)  
年耗電量：XXX 度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

★★★★☆

星星愈多能源效率愈高愈省電

中華民國能源效率標示

冷氣機

型號：XXXX

額定總冷氣能力：XX kW  
能源效率比：X (W/W)  
年耗電量：XXX 度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

中華民國能源效率標示/冷氣機

佳←效率→差

型號：XXXX

額定總冷氣能力：XX kW  
能源效率比：X (W/W)  
年耗電量：XXX 度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

中華民國能源效率標示/冷氣機

佳↑效率↓差

型號：XXXX

額定總冷氣能力：XX kW  
能源效率比：X (W/W)  
年耗電量：XXX 度/年

■ 年耗電量以每年使用1,200小時估算，實際耗電量依實際使用狀況而定。  
■ 依據XX年國家標準訂定

# Effective Schedule for promoted products



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## Comparative labeling

products	effective
Non conducted air conditioner	2010.7
refrigerator	2010.7
Self-ballasted fluorescent lamps	2011.1
Fluorescent lamp	2011.1
dehumidifier	2011.1
3 phase induction motor	2012.7
Single phase induction motor	2012.7

Conducted air conditioner	2014.1
Compact fluorescent lamp	2014.7
Condenser	2016.1



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# Thank you for your attent





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**Thank you for your attention**

**Save Energy,  
Save Our Planet !!**



Barry