The project activities in relation to the energy efficiency policy development process in Vietnam

Current situation and challenges

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CONTAINS

- Current state of Vietnam EE standard and labeling policy
- Current state of EE testing laboratory and the role of the training course
- Future plan for testing lab

Current state of Vietnam EE standard and labeling policy

VNEEP

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Current Legal frame work

- Decree 102/2003/ND-CP dated 03/9/2003 of government on Energy efficiency.
  - Define energy efficiency label
  - Requirement of energy consumption on label
- Decision 79/2006/QD-TTg dated 14/4/2006 of Prime minister approved National strategy program for energy efficiency.
  - Define one of key part of National program is Energy efficiency program
- Circular 08/2006/TT-BCN dated 16/11/2006 of Ministry of Industry (now ministry of Industry and Trade)
  - Procedure for labeling energy efficiency products (some requirement for review soon)

Current Standards (1)

1.TCVN 7450-1:2005 (published)

High efficiency three-phase asynchronous squirel cage electrical motors – Part 1: Minimum energy performance

2.TCVN 7450-2:2005

High efficiency three-phase asynchronous squirel cage electrical motors – Part 2: Methods for determination of performance

3.TCVN 7451-2:2005

High efficiency lighting products – Part 2: Methods for determination of energy performance

Current Standards (2)

4. TCVN 7826:2007

Electric fans – Energy efficiency ratio

5. TCVN 7827:2007

Electric fans – Methods for determination of energy efficiency

6. TCVN 7828:2007

Refrigerator, refrigerator-freezer – Energy efficiency ratio

7. TCVN 7829:2007

Refrigerator, refrigerator-freezer – Methods for determination of energy efficiency

Current Standards (3)

8. TCVN 7830:2007

Air conditioners – Energy efficiency ratio

9. TCVN 7831:2007

Electric fans – Methods for determination of energy efficiency

10. TCVN 7896:2008

Compact fluorescent lamps – Energy efficiency

11. TCVN 7897:2008

Electronic ballasts for fluorescent lamps – Energy efficiency

Current Standards (4)

12. TCVN 7898:2009

Storage water heaters – Energy efficiency

13. TCVN 8248:2009

Electromagnetic ballasts for fluorescent lamps – Energy efficiency 10. TCVN 7896:2008

Compact fluorescent lamps – Energy efficiency

14. TCVN 8249:2009

Tubular fluorescent lamps – Energy efficiency

Current Standards (5)

15. TCVN 8250:2009

High pressure sodium lamps – Energy efficiency

16. TCVN 8251:2009

Solar water heater – Technical requirements and testing method

17. TCVN 8252:2009

Rice cookers – Energy efficiency

Labeling activities 2009

- Labeled products
  - About 2.5 millions T8 fluorescent
  - 200.000 high efficiency electro-magnetic ballasts.
  - 50,000 traffic lighting fixture
- Launched label program
  - Electric fan
  - Storage electric water heater
  - CFL and electronic ballasts (3 manufacturers applied and under certifying)

Long-term policies and regulation

- Energy efficiency Law (under construction)
  - + (labeling requirement, un-efficiency phase – out products)
  - + Expecting time 2010-2011

- Tax incentive and Investment incentive
  - + For renewable energy appliances and high efficiency equipment
  - + Expecting time 2011

- Government procurement
  - + Guideline regulation
  - + Expecting time 2010

- Standards and labeling Mandatory
  - + Expecting time 2012-2015

- Standards harmonization in Asean countries
  - + Expecting time 2012 - 2015

Standards and certification

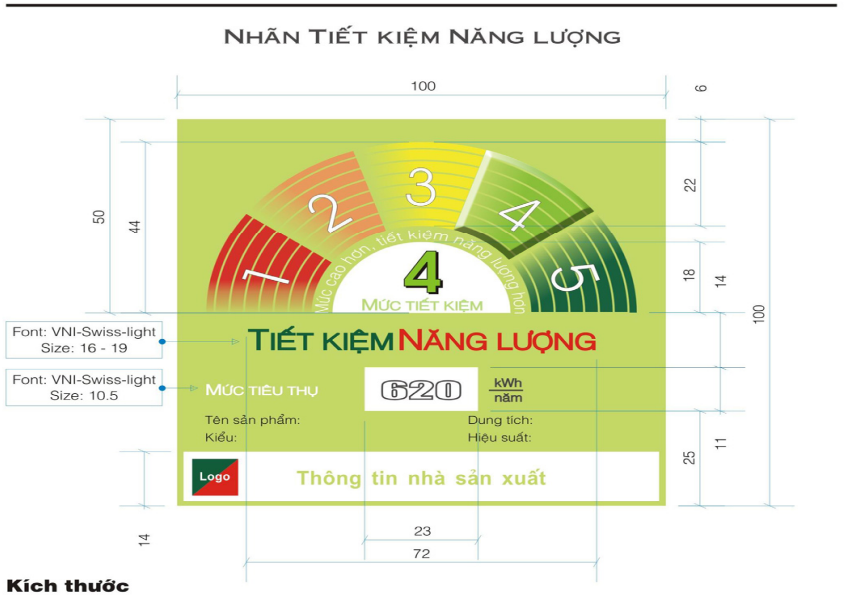
- Standards
  + Minimum energy performance standards (MEPs)
  + Categorization
- Level of standards
  + Suitable with the economic and technology condition in Vietnam
  + Level to top 70% products in the market
-Form of implementation
+Voluntary
  - Term of review
  + 03-05 year base on result of reality condition.

Form and Objects of labeling

- Form
  - Endorsement
  - Comparative label (under process)
- Designated products
  - High volume of consuming
  - Advanced technology products (Energy consume <70% other products – Endorsement; < 30% other products - comparative label)

Endorsement and comparative label

TIẾT KIỆM
NĂNG LƯỢNG



Kích thước

Nhãn Tiết kiệm năng lượng được thiết kế theo 3 kích thước: Lớn (L), trung bình (M) và nhỏ (S) để phù hợp với các loại sản phẩm có kích cỡ khác nhau:

Cỡ L: 150 x 150 mm; Cỡ M: 100 x 100 mm; Cỡ S: 75 x 75 mm

Mức tiết kiệm năng lượng của sản phẩm được ghi bằng số và thể hiện bằng khối nổi

Mầu Sắc

Mầu của nền Nhãn Tiết kiệm năng lượng:

Mầu của nhãn TKNL:
C: 23; M: 1; Y: 59; K: 0

Mầu các mức Tiết kiệm năng lượng:

Mầu Hồng:
C: 0; M: 40; Y: 70; K: 0

Mầu xanh nhạt:
C: 40; M: 0; Y: 100; K: 0

Mầu đỏ:
C: 0; M: 100; Y: 100; K: 0

Mầu Vàng:
C: 0; M: 0; Y: 100; K: 0

Mầu xanh đậm:
C: 90; M: 45; Y: 92; K: 15

Certification and labeling

- Testing
  - Testing result of approved laboratory (ISO 17025 assigned by MOIT, IECEE Schemes laboratories …)
- Evaluation and Certification
  - Ministry of Industry and Trade
- Labeling
  - Manufacturer print of label on the products
- Monitoring
  - Ministry of industry monitor and random test the certified products anually

Current state of EE testing laboratory and the role of the training course

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Energy Efficiency and Conservation Office

Testing laboratories

- Lighting laboratories
  - 06 laboratories
- Motor laboratories
  - 03 laboratories
- Fan
  - About 05 laboratories
- Air-conditioner and refrigerator
  - 02 manufacturers
  - 01 laboratory invested by Government fund and training support from IEEJ (METI)
- Electric water heater, rice cooker
  - 02 laboratories
- Other equipment
  - Not specified

Role of the training course

Good opportunity to gain highly valuable experiences from Japanese Expert and Policy system of Laboratories in Japan

Good opportunity to understand current situations of ASEAN member countries in Testing lab

Good opportunity to strength cooperation in Standards and Label field of energy efficiency activities between ASEAN member countries and Japan.

Future plan for testing lab

1. Testing for Air-conditioner and refrigerator
2. Cooperation with IEEJ in Energy Efficiency Testing for Air-conditioner and refrigerator:
+ Strengthen S&L human capabilities
+ To exchange experience and testing result between laboratories in ASEAN member countries and Japan.
3. In addition, to upgrade to opening the lab in IMEM and to construct the same lab in Southern of Vietnam.

Improvement and complement activities for labeling program

- Building up clear roadmap for labeling program
  - Design new label
  - Doing number of survey to collect the data on structure of electric consumption in residential area and industry
  - Define group of energy consumption in household, office and industry
  - Set the schedule to label the equipment
- Set up action plan
  - Detail labeling plan for each equipment
  - Overall program to label all of equipments (standards, testing, certify, label and monitoring …)

Roadmap of energy efficiency label
Energy consumption product categories

- Residential (Air-conditioner, refrigerator, washing machine, rice cooker, water heater, fan, micro oven …)
- Office and commercial equipment (fax, photocoppy, PC, monitor, projector …)
- Industrial (Motor, boiler, industrial fan, 3-phase transformer …)
- Materials (Low energy glass, thermal isolated material …)
- Renewable energy (solar water heating, solar cell …)

Roadmap of energy efficiency label

- Residential: (endorsement and comparative)
  - AC, refrigerator, rice cooker; water heating, fan (2010 - voluntary; 2012 - mandatory)
  - Water heating thermod, microwave, vaccum cleaner, odor cleaner, drying machine (2012- voluntary; 2014 - mandatory)
- Office and commercial equipment
  - PC sources, printer, photocopy, fax, monitor and commercial refrigerator (2012- voluntary; 2014 - mandatory)
- Industrial
  - Motor, industrial fan, boiler, 3-phase transformer (2011- voluntary; 2013 - mandatory)
- Material
  - Voluntary before 2012
- Renewable energy technology
  - Voluntary before 2010

Activities in early of 2010

- Organized a competition to designed new label for energy label and energy efficiency label – Results will be public in March.
- Review the Draft of Roadmap for labeling and minimum energy efficiency standards, submit to Prime Minister in June.
- Prepare some propaganda activities for labeling program and labeling products in 2010 (especially after July, when labeling program for air conditioner and refrigerator would be launched).
- Set up working plan with the manufacturers and importers to get more participate to the labeling program.


IEEJ: March 2010
THANK FOR YOUR ATTENTION!
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