

Vietnam Standard and Labeling policy and implementation

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Electric production and consumption in Vietnam

- Growth rate 12-14% in electric production (in period of year 2002-2007)
 - Structure of electric consumption
 - Industry and construction: 49%
 - Commercial and service: 4,8%
 - Public and residential: 40%
 - Agriculture, fishery: 1%
 - Other: 3,7%
 - Consumption in public and residential: 12-13% (urban area: 16-20%)
 - Industry: 13- 15%
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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)
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Long-term policies and regulation

- Draft of Energy efficiency Law
 - (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
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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.
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Form and Objects of labeling

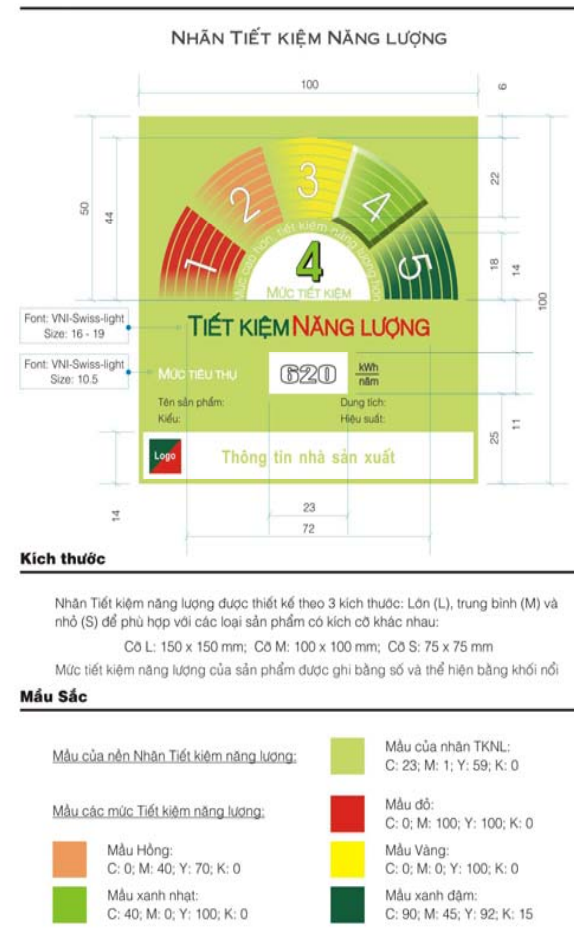
☐ Form

- 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)
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Endorsement and comparative label in Vietnam



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 annually
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Energy efficiency standards

- ❑ The year 2006: Thin tube fluorescent, Magnetic electric balasts, 3 Phase motors (review next years).
 - ❑ 2007: Air-conditioner, fan, Refrigerator
 - ❑ 2008: CFL, electronic balasts, electric water heater, streetlighting fixtures.
 - ❑ 2009 (planning): Solar water heater, review lighting standards.
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Labeled products and year 2009 plan

☐ Labeled products

- T8 flouresen – 03 millions in 2008
- Magnetic electrical ballast – 1.8 millions in 2008
- Streetlighting fixture – 30.000 (06 months of 2008)

☐ Label plan for 2009

- CFL, electronic ballasts (March/April 2009)
 - Fan, electric water heater (March/April 2009)
 - Airconditioner (June/September 2009)
 - Refrigerator (September 2009)
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Testing laboratories

- Lighting laboratories
 - 06 laboratories
 - Motor laboratories
 - 03 laboratories
 - Fan
 - About 05 laboratories
 - Air-conditioner and refrigerator
 - 02 manufacturers
 - 02 under-construction
 - Electric water heater
 - 02 laboratories
 - Other equipment
 - Not specified
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International cooperation

- ☐ DSM projects on S&L (1999 – 2001) – World Bank
 - ☐ Independent adviser (2005-2006) – Peter du Pont (DSM projects of EVN)
 - ☐ Vietnam energy efficient public lighting (2007-2008)
 - ☐ Pilot projects for air-conditional labeling (2008-2009)
 - ☐ Cooperation with IEEJ
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Review result from Pilot program outlet

- ❑ Designed label not really customer friendly
 - ❑ Limited on human resources (02 full time and 02 part time)
 - ❑ Lack of strong targeted program to implementation S&L program nationwide
 - ❑ Lack a good data base and updated data to set up good S&L roadmap.
 - ❑ Need a detail action plan to implement S&L roadmap when it created.
 - ❑ Not really good cooperation between key partners of program (Utilities, authorities, industry and customer)
 - ❑ Not good monitoring and verification after certification.
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Improvement and complement activities for labeling program

- Strengthen S&L human capabilities
 - Team of 05 persons in EEC office (full time)
 - Set up a networking between related agency (EVN, VSC, EI ...)
 - 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 ...)
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Draft 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, photocopy, 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 ...)
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Roadmap of energy efficiency label (Draft)

- Residential: (endorsement and comparative)
 - AC, refrigerator, rice cooker; water heating, fan (2010 - voluntary; 2012 - mandatory)
 - Water heating thermocouple, microwave, vacuum 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
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Thank you!