



**Asia-Pacific
Economic Cooperation**

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Agenda: D2 4

Economy Update – Singapore: Energy Efficiency Compliance Activities in Singapore

Submitted by: Singapore



**37th Expert Group on Energy Efficiency and
Conservation Meeting
Washington, D.C., United States
28 February - 2 March 2011**

Energy Efficiency Compliance Activities in Singapore

37th Meeting of the APEC Expert Group on Energy Efficiency & Conservation
28 Feb – 2 Mar 11, Washington DC, US

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Outline

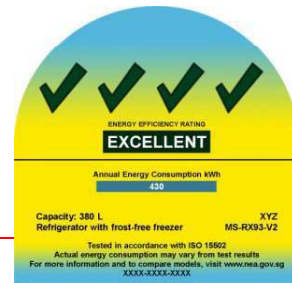
- Mandatory Energy Labelling Scheme (MELS)
- Mandatory Fuel Economy Labelling Scheme (FELS)
- Provision of Energy Efficiency Services to Residential Consumers

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Background on MELS & FELS

- **Mandatory Energy Labelling Scheme (MELS) for air-conditioners and refrigerators was implemented on Jan 08 while MELS for clothes dryers was implemented on Apr 09**
- **Mandatory Fuel Economy Labelling Scheme (FELS) for passenger cars and light goods vehicles**
- **Regulations governing the requirement for MELS and FELS are under Environmental Protection and Management Act (EPMA)**
- **Labels enable consumers to compare the energy/fuel efficiency of different models of similar capacities**



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Objectives of Compliance Activities

- **Enforcement work is carried out by staff to ensure that the labelling schemes implemented are effective**
- **For this, officers are required to ensure that:**
 - **Appliances and motor vehicles covered under the MELS and FELS are affixed with energy/fuel economy labels**
 - **Labels affixed conform to the design stipulated in the regulations**
 - **Information on the labels are accurate**



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MARKET AUTHORITY

Enforcement Activities

- Enforcement visits are carried out by NEA officers according to a schedule
- Normally by two officers
- All visits are documented
- Findings and visit records are acknowledged by staff of the stores and showrooms visited



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Challenges Faced in Enforcement

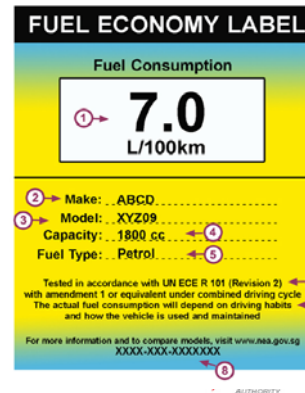
Challenge 1:

Non-compliance

- For example, labels not affixed or incorrect labels affixed

Current practice:

- Issue show-cause letter
- Issue notice of offer of composition
- Issue summon for non-compliance
- Conduct follow-up visits



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Challenges Faced in Enforcement

Challenge 2:

Difficult and uncooperative importers and retailers

Current practice:

- **Follow government guidelines and best practices in handling difficult importers/retailers.**
- **For persistently difficult importers/retailers, consider legal actions.**



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Challenges Faced in Enforcement

Challenge 3:

The manpower-intensive nature of enforcement

Current practice

- **Officers processing MELS/FELS applications also conduct the enforcement visits;**
- **Enforcement visits are planned and scheduled so that visits can be carried out systemically and effectively**

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Verification Testing

- **Objective of Verification testing (VT) is to ensure that the figures provided by importers and manufacturers in their registrations for their appliances are accurate and within acceptable limits**

Registrable Good	Limit
Air-conditioner	COP computed from results of VT based on calorimeter method ≥ 0.9 * COP computed from test report data
Refrigerator	Energy consumption computed from results of VT < 1.15 * energy consumption computed from test report data
Clothes Dryer	Energy consumption computed from results of VT < 1.15 energy consumption computed from test report data

Verification Testing

- NEA is empowered to send any of the registered models to approved testing laboratories for testing
- Approved testing laboratories must be accredited to ISO 17025 and are accredited by their national accreditation bodies to carry out the test in accordance with the relevant test standards
- NEA is not affiliated with any of the testing laboratories and does not provide accreditation of testing laboratories

Provision of EE Services for Residential Consumers

SP Services Ltd, provider of Singapore's energy market support services, is required under license conditions to:

- Operate the Electricity Efficiency Centre (EEC) to educate the public on electricity efficiency;
- Conduct the Energy Efficiency Programme for secondary students to educate them on the importance of energy conservation;
- Make available information/tips (via bills, online) and to assist consumers (via telephone) on measures to promote the efficient use of energy

EMA ensures that SP Services adheres to its obligations through a statement of practice to be submitted to EMA & which would be subject to review as and when directed by the Authority

Thank You