

Toolkit:

Monitoring, verification and Enforcement (MV&E)

Lighting, Appliances and Equipment: Session 10

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Jakarta, 18 July 2018



#energyefficientworld





You've been given \$300,000 to improve compliance rates in your S&L programme

How do you go about deciding on the most effective ways to spend this?

How would you spend this?

Why is compliance important?



Ensure that **consume**r receive the performance they are paying for

Ensure **suppliers** who invest more in energy efficiency do not lose market share to unscrupulous competitors

Compliance

Ensure **governments** get the outcomes they expect (programme objectives)

Safeguards the integrity of the programme – hard to win back confidence once lost

Group exercise





 What are some of the ways to increase compliance rates?



What are the Options?



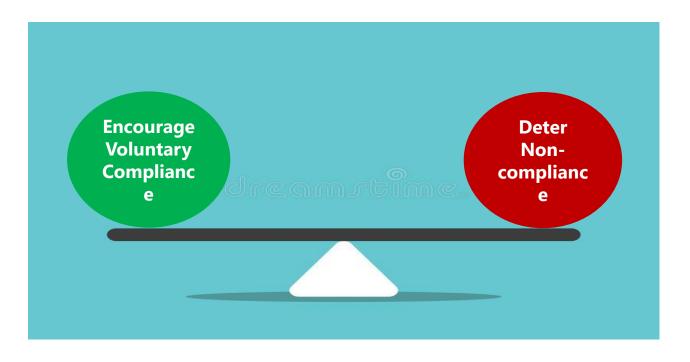


- Test more products
- Build a better laboratory
- Better educate product suppliers
- Publish list of offenders & actions taken
- Inspect more labels in stores
- Improved powers to act (legislation)
- Improve the range of sanctions available
- Publish rules / enforcement policy document
- Make it easier for suppliers to demonstrate/report compliance
- 10. Improve targeting of testing
- Develop in-house manual for staff
- 12. Publish testing targets in advance
- 13. Ensure that enforcement action is taken swiftly
- 14. Add requirements for retailers





Effective Compliance Frameworks aim to......







Encouraging Compliance





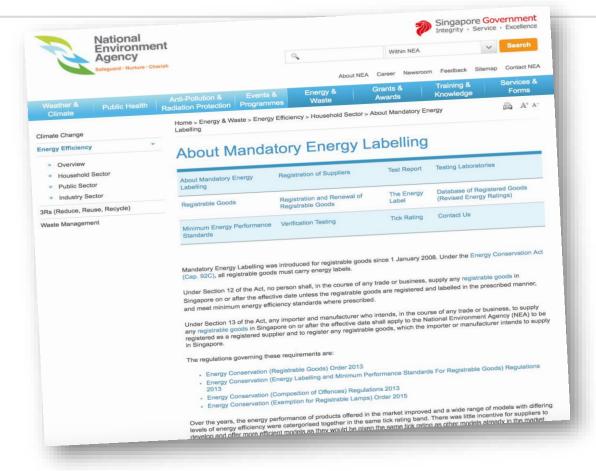
- Are the requirements for suppliers and retailers clear and accessible?
- Are they understandable (not 'legalese')
- Is registration (or alternatives) simple and effective, online, includes FAQ and guides?
- Is is clear what documentation is required?
- Are all the relevant documents relating to MV&E clearly identified on the website?
- Are enforcement procedures and sanctions obvious?
- Are all staff clear about their roles and responsibilities? e.g. Is there a staff 'operations manual'?
- Are you reaching 'new' stakeholders as they enter the market?

Benefits

- Avoids time-consuming questions to busy staff
- Avoids wasting time on unresolved cases, delayed action

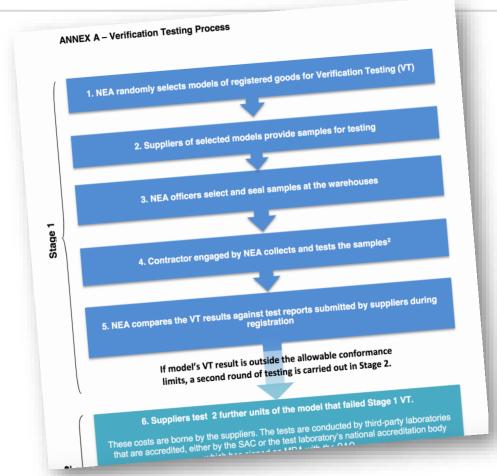
Example: Singapore





Example: MEPS Verification Process: Singapore





http://www.nea.gov.sg/docs/d efault-source/energywaste/energy-efficiency/reporton-vt-results-(updated).pdf

Example: Australia







Video: What suppliers need to know

How the E3 Program affects suppliers of products regulated for energy efficiency in Australia.

If you cannot see the video try viewing it on YouTube # or download a transcript.

https://youtu.be/IOZ6RCXz18Q?t=19



Compliance Best Practice



- S&L compliance frameworks are designed to:
- a) Encourage voluntary compliance, and
- b) Deter non-compliance

Steps to deter non-compliance



Deterrence theory:

- There must be a credible likelihood of detecting violations
- Swift, certain, and appropriate sanctions upon detection
- A perception among the regulated firms that these detection and sanction elements are present
- 1. Increase the risk that instances of non-compliance will be discovered
- 2. Take corrective action quickly to minimise damage (to all)
- 3. Make penalties proportional to the extent of transgression but sufficient to be an effective deterrent
- 4. Ensure corrective action is visible to deter others

Which is the better deterrent?









VISIBILITY IS IMPORTANT!

1. Increase the risk that non-compliance will be discovered

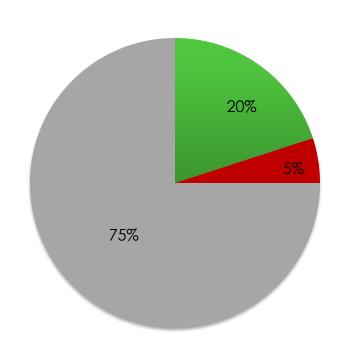




In most regulated markets:

 20% of the regulated population will automatically comply with any regulation

- 5% will attempt to evade it
- and the remaining 75% will comply as long as they think that the 5% will be caught and punished.



1. Increase the risk that non-compliance will be discovered







Market Surveillance: labelling display and registration monitoring





- Periodically monitor products within a sample of stores to check that:
 - All required products are correctly labelled,
 - All labels conform to requirements,
 - Fake labels are not being used
 - Products on the market are registered (where required)
- Market surveillance can be undertaken by:
 - Government staff, Consumer groups, Contractors
- Respond to any observed instances of non-compliance & publish results

Benefit

- Early detection of labelling errors can avoid more serious non-compliance
- Demonstrates to suppliers and retailers that government is being vigilant

Verification testing





- Testing is expensive!
- Needed, but only worth it if:
 - It is done to required level of accuracy
 - Is defensible
 - Is acted upon
- Since you can only test a small proportion on models on the market how do you increase cost-effectiveness?
 - Test products most likely to be non-compliant
 - Co-ordinate or share testing with other countries
 - Ensure tests are enforceable

Test products most likely to be non-compliant





- Random selection represents an inefficient allocation of resources
 - End up testing high proportion of compliant products
- Identify 'risk factors' for products most likely to be non-compliant and have most impact, e.g.
 - High market share
 - Does the brand have a good record of compliance?
 - What is the quality of evidence for claims is the test lab known and credible?
 - Have competitors provided evidence of non-compliance?
 - Are the claims of performance excessively high unbelievable?

Co-ordinate or share testing with other countries



- Numerous options to minimize costs and increase effectiveness:
- Co-ordinate joint market surveillance with neighbouring economies
- Share results of market surveillance to better target future actions
- Use quality laboratories in neighbouring economies
- Commission tests in product country of origin

Example – European surveillance coordination



Various EU-wide (EU funded) projects

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- 13 Market Surveillance Authorities (MSAs) from EU
- Organises coordinated MV&E activities, including product testing of LEDs, printers and heaters
- Electronic database allows MSAs to share plans and results of market surveillance activities in confidence
- Publication of Best Practice Guide
- Industrial and Tertiary Product Testing and Application of Standards (INTAS)

2. Take corrective action quickly to minimise damage





- Any delay in taking corrective actions means non-compliant products remaining in the market
 - More energy savings lost
 - Higher household expenditure
- Most non-compliance can be quickly resolved, with minor enforcement



3. Make penalties proportional to the extent of transgression







Programmes need a range of enforcement tools

- To act appropriately and quickly to suspected transgressions to minimise damage

Example - UK response to non-compliance



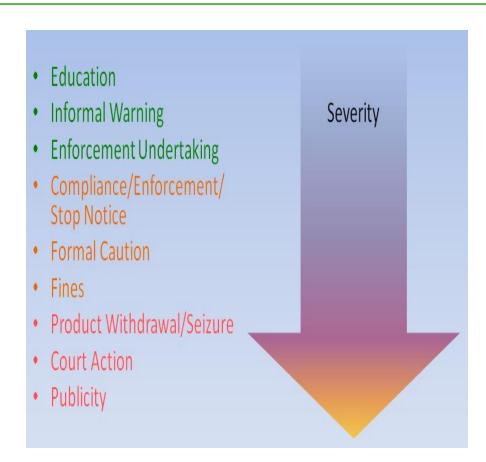
We operate in accordance with the Regulators' Code, which requires us to:

- > support compliance and growth
- > engage with those we regulate
- base our activity on risk
- > share information
- > offer clear guidance
- > be transparent.

We always act proportionately, depending on the nature of the non-compliance.

We are approachable and do not take enforcement action just because a business asks us a question or tells us that they have a problem.

Source: BEIS (2017)



4. Ensure corrective action is visible - to deter others





Plans for compliance activity

Results of market surveillance

High Visibility

Testing activity and results (once resolved) Enforcement actions taken

Reporting testing results





40 Scotts Road #13-00 **Environment Building** Singapore 228231 Tel: 1 800 2255 632 Fax: 62352611 Email: contact_nea@nea.gov.sg www.nea.gov.sg

Results of Verification Testing of Registrable Goods Under the Mandatory Energy Labelling Scheme

The National Environment Agency (NEA) carried out verification testing (VT) on a selection of air-conditioner, refrigerator and clothes dryer models registered under the

Mandatory Energy Lab exercise, which was co

Stage 1 VT Results

Background

- Under the Er register their product energy performance products when they internationally recog efficiency under the
- VT is a performance of pre safeguard the inte labelling scheme.
- In this firs models for VT efficiency ratings were subject to

VT results were compared against suppliers' test reports submitted during registration. The energy performance of 87% (40 out of 46) of the registered goods tested were found to be within the allowable conformance limits (refer to Table 3 of Annex B). By appliance category, the compliance rates were 95% for air-conditioners, 75% for refrigerators and 100% for clothes dryers.

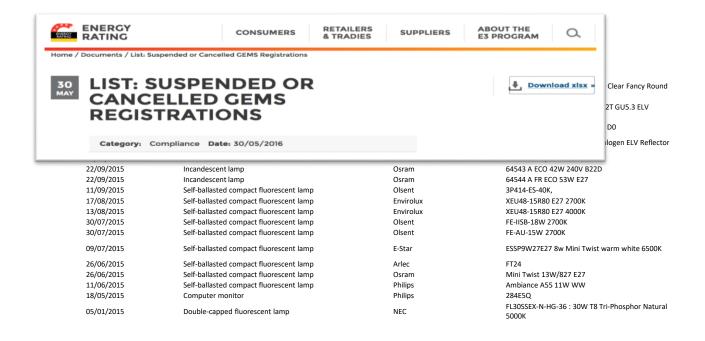
•				
9		Air-conditioner	Refrigerator	Clothes Dryer
,	No. of models tested	20	20	6
9	No. of models that passed Stage 1 VT	19	15	6
S	No. of models that failed Stage 1 VT	1	5	0
3:	Table 2: Summary of Stage 1 VT	coudte		

Table 2: Summary of Stage 1 VT results

Reporting enforcement actions

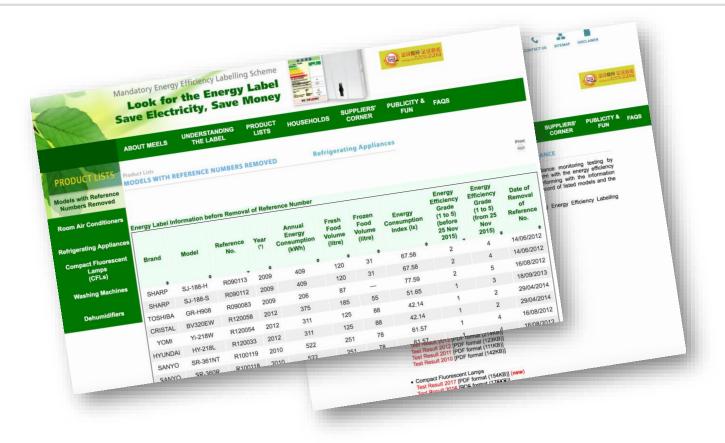






Example: Suspended products Hong Kong





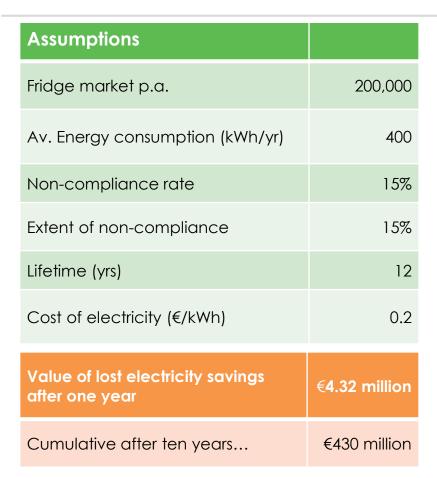
Design options



	Post-market verification	Third-party certification
Entry conditions	Independent tests, in-house testing, calculation or self declaration	Third-party verification and/or certification
Government/Programme	\$	\$
Industry Participant	\$	\$
Consumers	\$	\$

Value of improving non-compliance

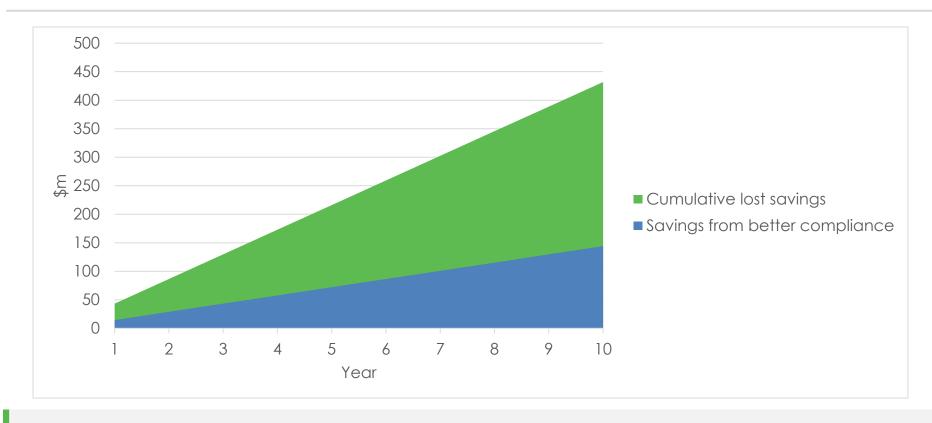




Outcomes		
Reducing non-compliance rate to 10%		
Saving after one year	€1.44 million	
Cost-benefit ratio	1:4.8	
Cumulative savings after ten years	€144 million	

The Value of Better Compliance





\$144m saved after 10 years

Scenario

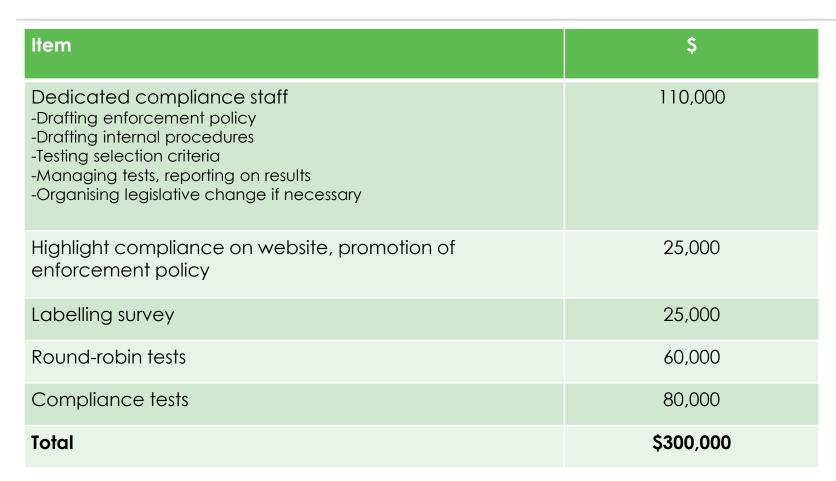




How would you spend \$300,000 on improving compliance?

What would I do?



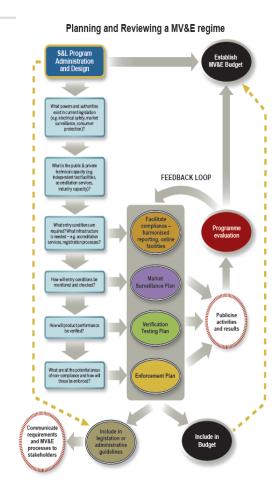


Essential elements of compliance regimes





- Mechanism to facilitate compliance
- Market surveillance
- Verification testing
- Enforcement
- Communication, reporting, feedback
- Legal and administrative framework
- Budget and resource allocation
- Evaluation processes

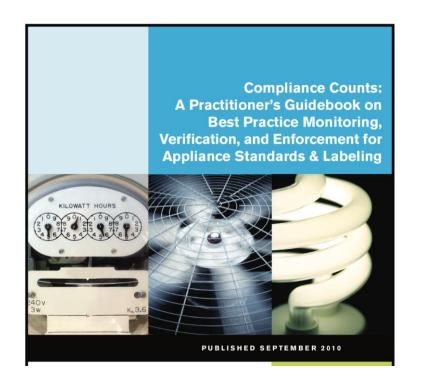


Sources of further information



CLASP

https://clasp.ngo



https://clasp.ngo/publications/compliance-counts-a-practitioners-guidebook-on-best-practice-monitoring-verification-and-enforcement-for-appliance-standards-labeling-1



EEPLIANT

Energy Efficiency Compliant Products 2014

Work Package 2: Implementing Best Practices

Best Practice Guidelines for Coordinated and Effective Ecodesign and Energy Labelling Market Surveillance

Version 3, April 2017



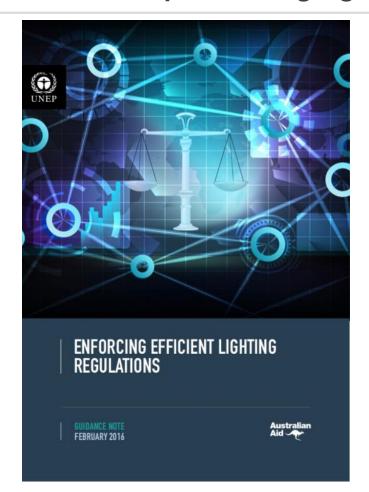
http://www.eepliant.eu/index.php/knowledge-base/item/2017-05-16



United for Efficiency: Enforcing Lighting Regulations







https://united4efficiency.org/resources /enforcing-efficient-lightingregulations/





https://www.youtube.com/watch?v=u8xPFhcFYhw



www.iea.org



Reporting targets for compliance activity





CONSUMERS

RETAILERS & TRADIES

SUPPLIERS

ABOUT THE E3 PROGRAM 0



COMPLIANCE NEWS: MARKET SURVEILLANCE ACTIVITIES FOR MOTORS

Topic Compliance

Electric Motors



GEMS inspectors will also be focusing on motors contained within machines to ensure that machinery suppliers are aware of, and comply with, all GEMS requirements.

More information

GEMS compliance program | energyrating.gov.au/compliance

Electric Motors | energyrating.gov.au/products/electric-motors





www.iea.org

