United Nations Environment Programme
en.lighten Initiative

Monitoring, Verification and Enforcement (MVE): Some Practical Considerations

My Ton
CLASP
Monitoring, Verification and Enforcement: Summary

• Low-quality lamps in market undermine policy objectives.
• MEPS must be stringently supported with a robust MV&E regime.
• Labels also require MV&E support.
• Optimal success requires strong, long-term, integrated MV&E commitment.
Efficient Lighting Toolkit: MV&E Practical Considerations

Monitoring, Verification and Enforcement: Key Areas for Consideration

• Resources
  • Personnel
  • Training
• Market surveillance and testing
• Enforcement infrastructure and process
Monitoring, Verification and Enforcement: Key Areas for Consideration

MVE Program Complexity vs. Costs (for illustrative purpose only)

- Market Surveillance
- Check Test
- Long Term Lab

$
Monitoring, Verification and Enforcement: Resources & Requirements Considerations

Initial MV&E investment needed depends on:

• Entry conditions:
  • No testing
  • Proof of compliance testing
  • Actual testing

• Market surveillance approaches:
  • Verification of labelling requirements
  • Compliance with performance requirements
Monitoring, Verification and Enforcement: Resources & Requirements Considerations

• Choices of testing and surveillance method influence costs, but also personnel needs and training.

• There are other low cost options for considerations – e.g. retailer education, clarity of rules, publicity, surveys, etc.

• All need to be planned and organized - Staff as important as money.
Monitoring, Verification and Enforcement: Resources & Requirements Considerations

• There is no substitute for market surveillance and testing

• Based on 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
Monitoring, Verification and Enforcement: Resources & Requirements Considerations

• Choices of monitoring & verification method also influence costs.
• There are few no/low cost options for M&V: market survey & product testing costs money.
• However, there are some ways to keep costs low.
MV&E: A Monitoring and Verification Example

Actual LEDs Performance vs. Manufacturers’ Claims in Australia

Source: DCCEE
MV&E: Another Monitoring and Verification Example

CFL Market Surveillance in China

Source: NLTC
Monitoring, Verification and Enforcement: Monitoring & Verification Considerations

For market surveillance, a good sampling methodology is essential in order to:

• Obtain the right sample size and market coverage
• Avoid the “golden sample.”
• Mindful of variabilities/tolerances.
• Obtain support and credibility for both the sampling method and for the MV&E program.
• Manage costs.
Testing costs and supervision needs will likely increase with program success.

Source: EGAT, 2012
Monitoring, Verification and Enforcement: Enforcement Considerations

• Framework for most effective program is defined by a combination of legislation, regulations, and program “rules.”
• Rules and administrative guidelines are more flexible than laws.
• Shared responsibilities for enforcement between ministries/agencies can lead to confusion and lost opportunities.
• Transparency of operational rules is important for compliance, but they are not often accessible or published.

Sources: CLASP MV&E Guidebook & APEC 2011 Survey.
Monitoring, Verification and Enforcement: Enforcement Considerations

Source: MEA, 2012
Monitoring, Verification and Enforcement: Infrastructure Example

Source: ECEEE, 2011
Monitoring, Verification and Enforcement: Parting Thoughts

Look widely for ways to manage MV&E implementation costs:

• Consider having MRAs in place for your region or with trade partners
• Invest in laboratory accreditation process
• Insure data access or implement data sharing mechanisms.
• Even informal MV&E networks can be useful.
Monitoring, Verification and Enforcement:
Other MV&E Resources

Coming Soon....... MV&E online resources!
Questions?

See Section 4, “Ensuring Product Availability and Conformance” in the en.lighten Toolkit:

www.enlighten-initiative.org

Find more resources about MV&E on the CLASP Website:

www.clasponline.org