

Standards and Labelling: Benefits and Approaches for Cookstoves

Nicole Kearney CLASP November 15, 2016 Kampala, Uganda



Presentation Overview

- Overview of CLASP and our work on cookstoves
- Approaches and benefits of standards and labels
- Application and benefits of S&L to cookstoves and fuels



CLASP improves the environmental and energy performance of appliances & equipment

Policy design & implementation

Promoting highly efficient products

Monitoring & evaluation

Training & capacity building

Phasing down
HFCs and high
GWP refrigerants

Resources & tools for practitioners

Off-grid & energy access

Raising consumer awareness & comprehension

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CLASP's Clean Energy Access Program

CLASP's Clean Energy Access program focuses on leveraging our experience with S&L and energy efficiency to:

I. Enhance the Development of Appropriate Access Product Markets

II. Elevate the Role of Energy Efficiency in Energy Access





















CLASP Cookstove Activities

Round Robin Testing and developing S&L strategies with the Global Alliance for Clean Cookstoves





Supporting ECOWAS regional cookstove standards and labelling efforts with the Clean Energy Solutions Center



The Virtuous Cycle of Standards and Labelling Programs

Impact assessment

Program evaluation

Raise Standards Levels Market monitoring

Standards development

Benchmarking

Phase out inefficient products

Assess Impacts and Improve Outcomes



Promote Efficient & Low-Emission Products

Monitoring, verification and enforcement

Build test laboratory capacity

Improve
Compliance and
Enforcement

Labelling

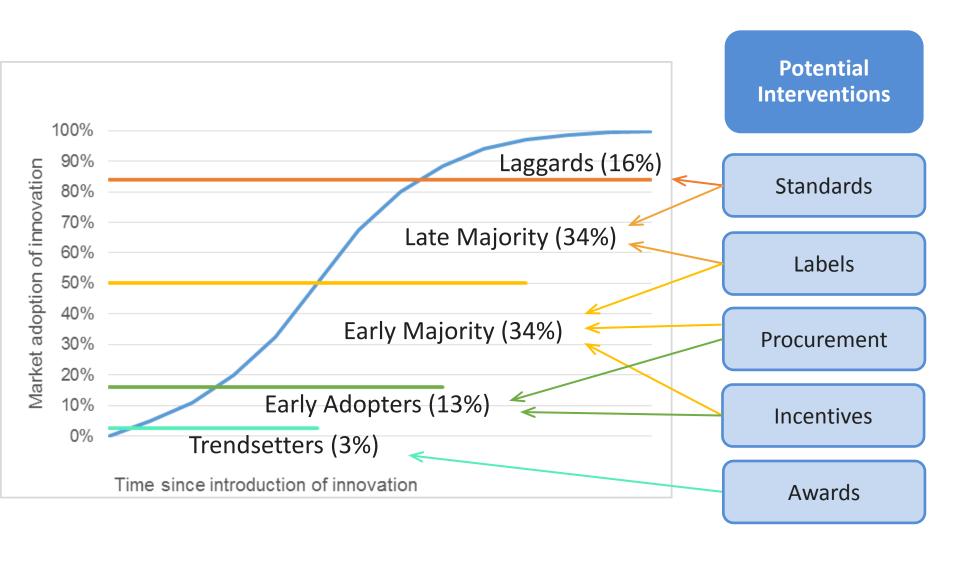
Awards programs

Financial incentives

Influence consumer behavior



Potential Interventions for Market Transformation





Standards

Regulations specifying the minimum allowable energy and/or emissions performance for a product.

Removes the highest emitting and energy-using products from the market.

Labels

Aim to shift markets for cookstoves toward improved energy efficiency and emissions.

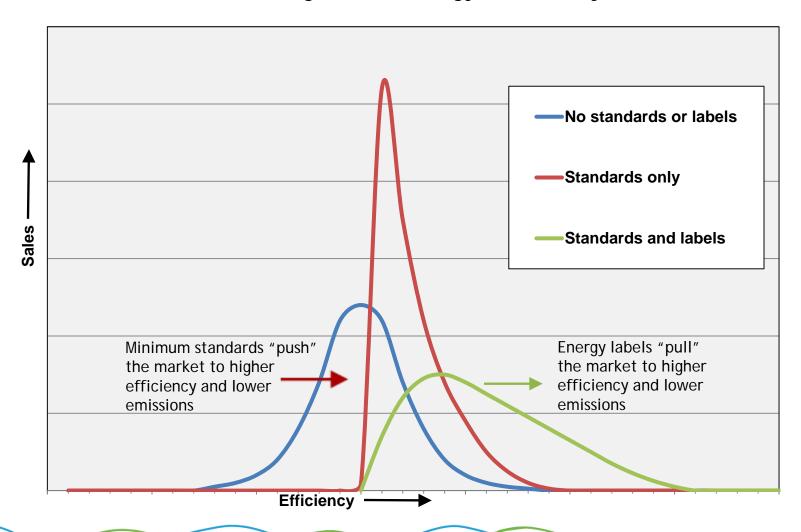
Powerful tools that provide product information to consumers at the point of purchase.

Give manufacturers of high quality products a competitive edge for attracting savvy consumers.



Energy Efficiency Standards and Labels

Standards and labels work together to "push" and "pull" the market toward greater energy efficiency.





Efficiency Standards

Efficiency standards "PUSH" the market towards greater energy efficiency by removing inefficient products from the market.

- Minimum Performance Standards require that a manufacturer achieve in each and every product a minimum efficiency (or maximum energy consumption); but does not require a specific technology or design.
- Prescriptive Standards require that a particular feature or device be installed in all new products.
- Class-average Standards specify the average efficiency of a manufactured product, allowing each manufacturer to select the level of efficiency for each model so that the overall average is achieved.











Minimum Performance Standards

Advantages

- Provides predictable effects of eliminating low-performing products
- Easy to ratchet levels periodically
- Can be designed to maximize consumer benefits
- Very low per unit transaction costs
- Technology costs borne by consumer who also receives energy and emission savings benefits

<u>Disadvantages</u>

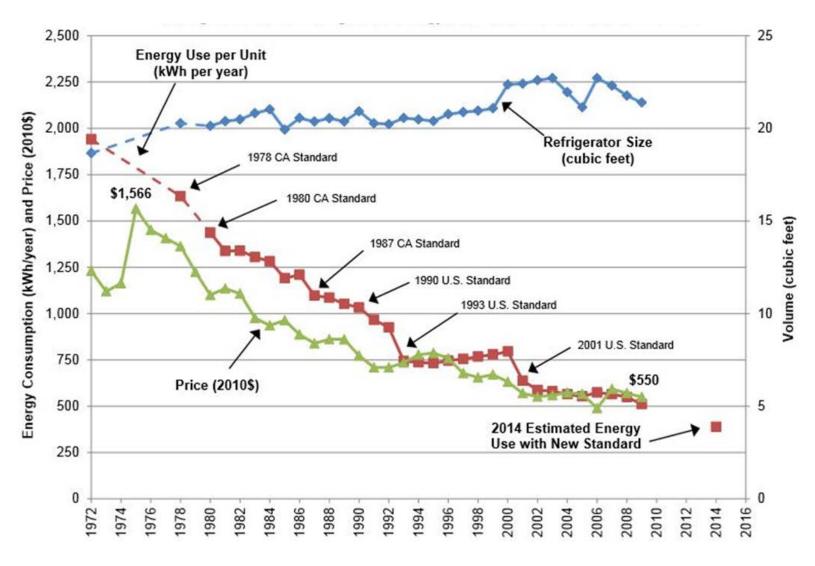
- Usually a mandatory program requires consensus/cooperation among multiple stakeholders
- Can incur some up-front costs for consumers
- Requires good enforcement policy

Major Stakeholders

Manufacturers, environmental groups, consumer groups



Impact of Refrigerator Standards in US



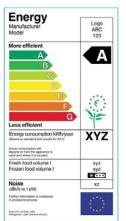
Source: Appliance Standards Awareness Project (ASAP)

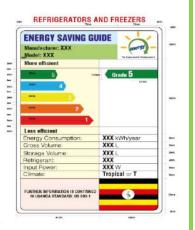


Energy / Efficiency Labels

Comparative Labels







- Tiers of efficiency
- Compare different products
- Displays more information

Endorsement Labels

- Set efficiency level
- Simple design
- "This product is efficient"





Evolution of Standards & Labelling in India

2001-2002

Energy
Conservation Act
and
establishment of
the Bureau of
Energy Efficiency



2010

Mandatory labeling for 4 products



2014

14 products with labeling and more to come













2006

Voluntary labeling program for refrigerators



Launch of the Endorsement Label

2016

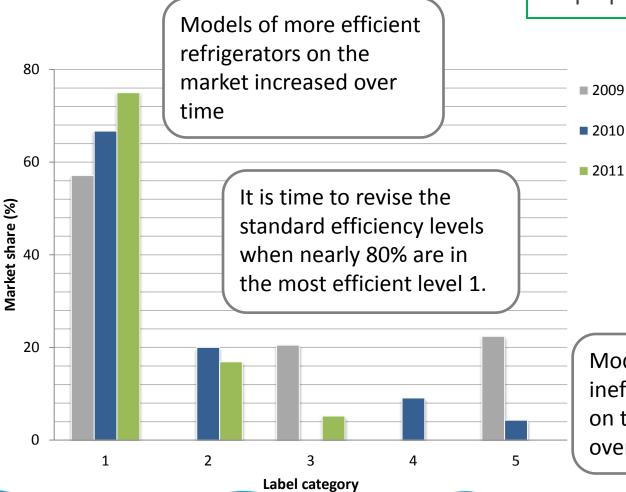




Revising Energy Labels Over Time



Efficiency levels should be ratcheted up after a cycle to keep up with market trends





Models of more inefficient refrigerators on the market decreased over time



Test Procedures & Facilities

Reliable test procedures and test facilities are the foundation of successful

standards-setting and labeling initiatives.

Test procedures need to:

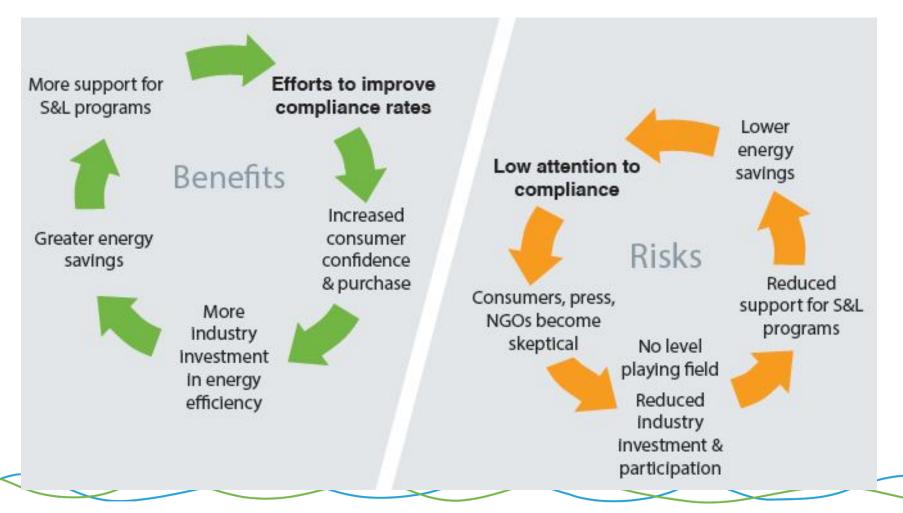
- Reflect typical usage;
- Yield repeatable and accurate results;
- Be relatively inexpensive to perform;
- Test procedures can be developed either in country or adopted from an international body;
- Testing should be conducted in an accredited laboratory to ensure that tests are being conducted properly.





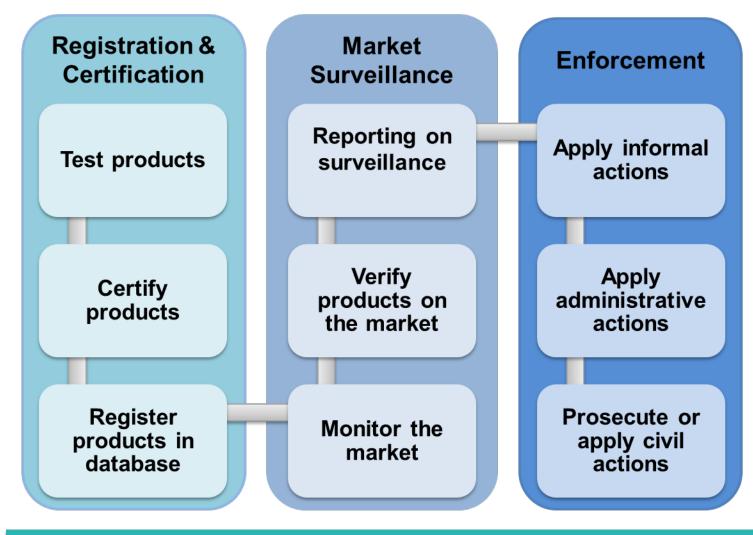
clasp Monitoring, Verification & Enforcement

Monitoring, verification, and enforcement (MV&E) policies safeguard the energy savings and emissions reductions of S&L programs by ensuring products meet S&L policy requirements and live up to their energy efficiency claims.





Compliance Strategies



Communication - target all stakeholders on the market



Communications

Include a communications campaign at the outset of the design of any market transformation program...

...to educate and mobilize consumers, industry and retailers

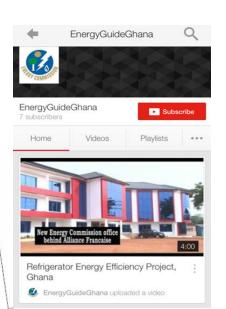


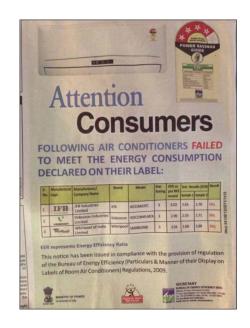


... and Awareness Raising















Benefits of S&L for Cookstoves

S&L benefits

Strengthen domestic markets through product differentiation

Innovation leads to greater variety of available products

Labels can convey lifetime costs

Can be used to create qualification criteria for subsidy program

Labels can compare among different technologies and usages

Market Transformation outcomes

Improved product quality and innovation will improve consumer confidence and value proposition

Increased availability of appropriate products for different circumstances - increased demand for alternative fuels

Lifetime savings can increase awareness and consumer willingness to pay

Subsidy programs can lead dissemination and demonstration of quality stoves/fuels

Labels can increase understanding of stove, fuel, and usage options together, leading to more informed decisions

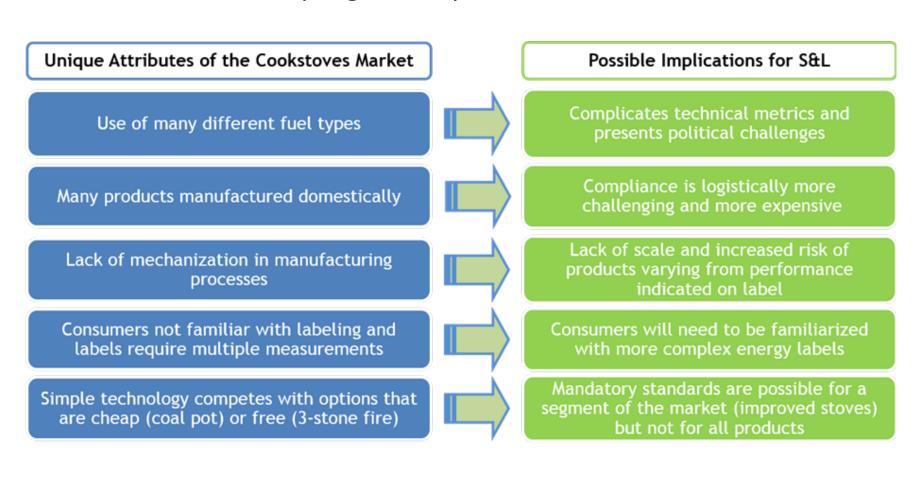
Overall Benefits

- ✓ Enhanced consumer welfare (Indoor air quality; less time/cost gathering fuel)
- ✓ Reduced emissions to help meet public health and climate change goals
- ✓ Averted urban/regional pollution



Implications for Cookstove S&L in Uganda

Cookstoves present some unique challenges to successful program implementation



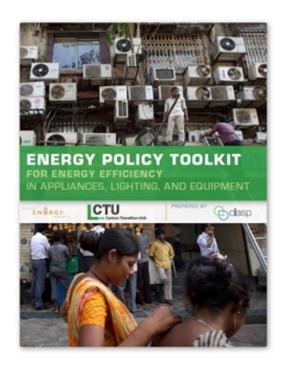


Next steps to address these challenges

- Launch voluntary endorsement label to motivate industry to improve cookstove and fuel efficiency, supported by additional market transformation efforts (incentives, procurement, etc)
- Build on lessons learned from UNBS standards development,
 certification and quality mark to inform S&L for cookstoves
- Review international best practice to support program implementation
- Engage with stakeholders seek inputs, understand impacts on different market actors, regular dialogue and consultation
- UNBS working with CLASP and the Global Alliance for Clean Cookstoves to identify effective program implementation mechanisms in 2016-2017



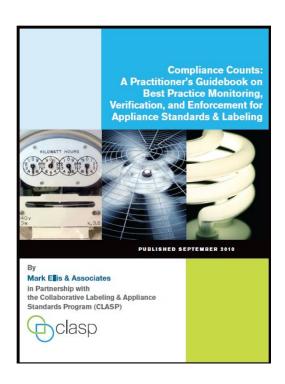
CLASP S&L Resources and Tools for Policymakers



Energy Policy Toolkit



Standards & Labeling Guidebook



MV&E Manual



Thank you!

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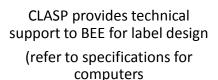
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The first seal of approval in India

The first stamp of approval for laptops save 0.2 TWh of electricity and avoid emissions of 0.2 million tons of CO2e per year by 2020



ENERGY STAR 5.2)

2010-2011



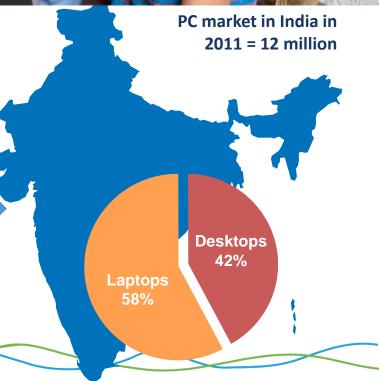






March 2011

BFF launches the first seal of approval in India





S&L program in Brazil is implemented through several programs



Brazilian Labeling Program (PBE for Programa Brasilero de Etiquetaje) established in 1984 Mandatory comparative label for 21 products



 National program for conservation of electricity (PROCEL) established in 1985

Endorsement label for electrical equipment



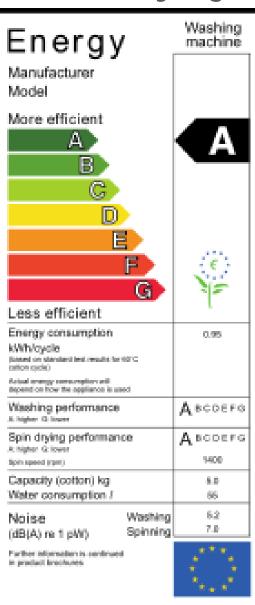
National program for the rational use of fuels and natural gas (CONPET)
established in 1991

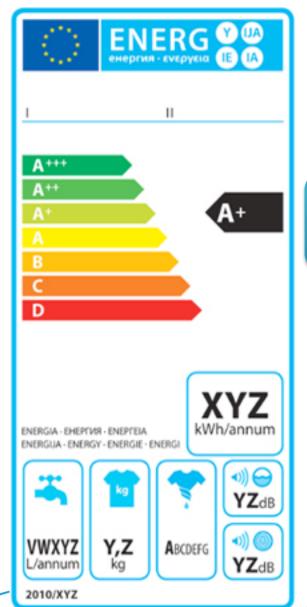
Endorsement label for equipment using natural gas



Washing Machine Labels in Europe: Conveying information without words

Old label (before 2010)





New label