

Standards and Labelling: Benefits and Approaches for Cookstoves

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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'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

Haiti Guatemala Nigeria Kenya Uganda Past 2016-17

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



The Virtuous Cycle of Standards and Labelling Programs





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

Labels

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.





• <u>Advantages</u>

- 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

Disadvantages

- Usually a mandatory program requires consensus/cooperation among multiple stakeholders
- Can incur some up-front costs for consumers
- Requires good enforcement policy
- <u>Major Stakeholders</u>
 - Manufacturers, environmental groups, consumer groups

asp Impact of Refrigerator Standards in US



Source: Appliance Standards Awareness Project (ASAP)



Energy / Efficiency Labels





Evolution of Standards & Labelling in India



Energy Conservation Act and establishment of the Bureau of Energy Efficiency



2010 Mandatory labeling for 4 products



14 products with labeling and more to come

2014

200620112016Voluntary labeling
program for
refrigeratorsLaunch of the
Endorsement
Label1010

E DISHMISHERS



Level Distribution by Model Type ratcheted up after a cycle to keep up with market trends Models of more efficient refrigerators on the 80 market increased over 2009 AAA-000 time 2010 60 2011 It is time to revise the Market share (%) standard efficiency levels 能源消耗指标 其他性能指标 when nearly 80% are in 40 the most efficient level 1. 依据国家标准: GB 00000.0-0000 20 Models of more inefficient refrigerators on the market decreased 0 over time 5 1 2 3 4 Label category



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



Monitoring and Evaluation - understand what works and how to improve



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

330 - 1520 In

...

Refrigerator Energy Efficiency Project,

LenergyGuideGhana uploaded a video

Ghana



2040 1 1 1 1 1 0mm

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Benefits of S&L for Cookstoves



Reduced emissions to help meet public health and climate change goals

✓ Averted urban/regional pollution

Clasp Implications for Cookstove S&L in Uganda

Cookstoves present some unique challenges to successful program implementation





- 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





Compliance Counts: A Practitioner's Guidebook on Best Practice Monitoring, Verification, and Enforcement for Appliance Standards —



By Mark Ellis & Associates in Partnership with the Collaborative Labeling & Appliance Standards Program (CLASP)

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MV&E Manual



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Thank you!

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

lasp





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



clasp

	<u> </u>
Energy Manufacturer Model	Washing machine
More efficient A B C	
D E F G Less efficient	S.
Energy consumption kWh/cycle pased on standard test results for 80°C often cycle Actual strange serieursplan will depend on four the opplance is used	0.95
Washing performance A higher G lower Spin drying performance A higher G lower box served (cert)	A BCDEFG A BCDEFG
Capacity (cotton) kg Water consumption /	8.0 55
Noise Washing (dB(A) re 1 pW) Spinning Partner information is continued in product trackares	7.8 *****

