



# **STANDARDS AND LABELING UGANDA**

**Uganda National Alliance on Clean Cooking**

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# Outline

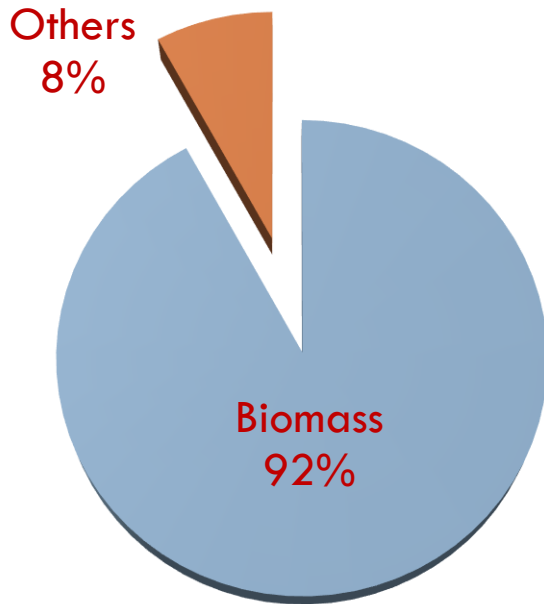


- Uganda's Cooking Sector
- About UNACC
- Quality and Standards in Uganda
- Ongoing efforts on Standards
- Next steps

# Uganda Cooking Sector

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## Energy use in Uganda



## Renewable Energy Policy 2007:

- Increase use of modern renewable energy from 4% to 61% by 2020
- Mass adoption of improved cookstoves to reduce demand for biomass energy resources

## 2010 household survey:

- uptake of ICS at 8.5%
- 3-stone fire at 69.1%
- Open charcoal stove at 18.5%

# Uganda National Alliance on Clean Cooking

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Coordinates stakeholders and efforts of the Ugandan clean cooking sector

## **Vision:**

A Ugandan society where households and institutions use clean cooking alternatives for sustainable livelihood and for environmental protection

## **Goal by 2020:**

- 5mil households sustainably adopt clean and efficient clean cooking and fuels
- 100% clean cooking for all licensable public and commercial institutions

## **How:**

- Enhancing coordination and synergy among stakeholders
- Support development of a conducive policy environment

# Quality and Standards in Uganda

## 1. US 761:2007 Household biomass stoves

- More of a descriptive standard
- Mainly on material used and workmanship
- Limited scope
- No mention of key performance measures like efficiency, durability, emissions
- Only highlights minimum temperature for stove surface  $<45^{\circ}\text{C}$

# Quality and Standards in Uganda

## 2. **US 765:2007** - Wood charcoal and charcoal briquettes for household use

- Minimum chemical requirements

Parameter	Lump charcoal	Charcoal briquettes
Moisture content	<10%	
Volatile matter content	<20%	<27%
Ash content	<5%	<13%
Fixed carbon content	75%	60%

- No enforcement of these as yet

# Quality and Standards in Uganda

Why  
performance  
benchmarks?

## Key parameters for stoves

- Efficiency/fuel use
- Safety
- Emissions
- Durability



# Ongoing Efforts – UNACC

**Voluntary** preliminary minimum performance requirements for household solid biomass stoves on the Ugandan market

## **Methodology used:**

- Review of existing standards and benchmarks within E. Africa
- Review of existing information on stove performance on market
- 2-day workshop to assess and reach consensus

## **Implementation:**

- As a start, used as a basis to support producers in awareness campaigns
- Used as benchmark to support stove businesses



# UNACC Minimum Performance Requirements

Parameter	Suggested benchmark	Remarks
Thermal Efficiency	<ul style="list-style-type: none"> <li>- Wood stoves: <b>25%</b></li> <li>- Non wood stoves e.g. charcoal, briquettes: <b>35%</b></li> </ul>	Based on IWA Water Boiling Test
Safety ratings	<ul style="list-style-type: none"> <li>- Good (sum <math>\geq 84</math>)</li> </ul>	Based on Biomass Stove Safety Protocol. Stove safety rating of sum $\geq 84$ (moderate risk for minor injuries and low risk for major injuries)
Emissions ratings	<ul style="list-style-type: none"> <li>- PM &amp; CO: Work towards reduction in emissions</li> </ul>	No specifics set yet Based on Water Boiling Test
Warranty	<ul style="list-style-type: none"> <li>- 1 year warranty period</li> </ul>	Based on a consensus reached in the Entebbe STC Meeting held on 16/17 <sup>th</sup> Dec 2014

# Ongoing Efforts - UNBS

## Uganda National Bureau of Standards (UNBS):

- Participation on ISO TC 285 on clean cookstoves & clean cooking solutions
- UNBS partnership with other labs such as CREEC RTKC to conduct stove tests on their behalf
- EAC working towards recognizing laboratories
- UNACC Standards and Testing taskforce working closely with UNBS to provide inputs in the standards process

# Ongoing Efforts – EnDev Uganda

## “Good Stove Better Cooking” brand

- Serves as a quality seal for buyers to identify quality stoves
- All stoves promoted under the brand are tested to:
  1. Save at least **40%** in (specific) consumption of fuel
  2. Show measurable and significant reductions in emissions



# Ongoing Efforts – Impact Carbon

## Gold standard projects

- Minimum 30% fuel savings
- Average lifespan of 3 years

## Uganda Carbon Bureau CDM Projects

- Improved Cook-stoves for East Africa (ICSEA)
- A carbon finance support ‘umbrella’ for projects that disseminate improved cook-stoves using wood or charcoal.
- Use CDM Minimum **25% fuel saving**

# Key Issues

- No clear consensus on the voluntary UNACC benchmarks e.g. thermal efficiency, inclusion of emissions
- Many improved stove products on the Uganda market perform similarly on emissions and efficiency criteria
- Many manufacturers do not see the value in paying for testing or participating in the standards development process

# So, What next?

- Hold stakeholder consultations to achieve consensus for technical and physical aspects of a voluntary UNACC standard or label
- Prepare the market by increasing the variety of available products:
  1. Implement an awards program to follow the already-planned 2016 design innovation workshops
  2. This will provide a forum for manufacturers to apply concepts from the workshops, and will connect innovation with business opportunities

# So, What next?

- Lay out a clear value proposition for manufacturers about:
  1. Benefits in terms of sales from increased consumer awareness, and
  2. Justification for paying for testing and investing time to participate in standardization



**Thank You**

