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# BIOETHANOL | SOCIAL & GENDER IMPACT





4 billion

Do not have access to modern clean cooking solutions

4 million

Premature deaths from household air pollution



17%

Have access in sub-Saharan Africa



\$0.8 trillion USD

Opportunity cost of inaction annually in regard to gender



## Time Poverty

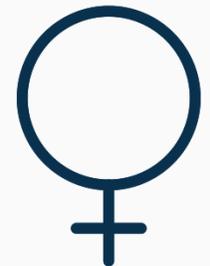
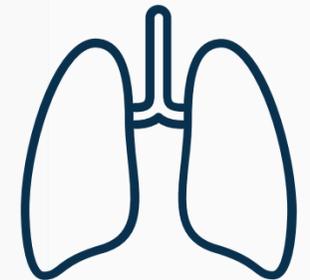
- Cooking is seen primarily as a woman's role across the globe
- Women are predominantly the fuel gatherers, food preparers, and responsible for cleaning and washing
- Less opportunities for education, earning income, or leisure

## Health Risks

- Greater exposure to particulates from solid fuels (PM emissions) than men
  - Often 2-4 times greater
- Children born to women with high exposures suffer low birth weight and stunting

## Physical Danger

- Much greater risk of gender based violence (GBV)



5 hours

Loss of time  
per day



# CHALLENGES BIOETHANOL



## **New Appliance**

Women have to learn to use a new appliance that they may not feel comfortable with, or know how to use

## **Cultural Implications**

Certain foods are typically prepared in a traditional way; may be hard to convince families that food will taste the same

## **Social Shift**

As women begin to make choices in fuel and appliances, and get more involved in cooking enterprises, it may cause a shift in household dynamics and potentially social standing that could be threatening to male counterparts



# OPPORTUNITIES BIOETHANOL

— “ —————

Women tend to spend more of their generated income —up to 90%, compared to 35% in the case of men— on the well-being of their family and community

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## Performance

Stove performance is key in shifting mindset; the stoves burn efficiently and cleanly and can cook the same foods in the same amount of time, or faster

## Affordability

The ability for women to choose an affordable, modern option, and procure additional savings through fuel purchases provides more purchasing power for women and their families

## Income

With bioethanol comes many opportunities for sales, marketing, manufacturing and leadership positions. Many of these should be prioritized for women, ensuring equal opportunity within the new enterprises

## Health

As the transition to cleaner fuels increases, the health risks for women and children will decrease, easing the amount of respiratory and cardiac problems, eye, nose and throat irritation, back and neck issues from collecting fuel. The reduced respiratory issues is particularly pertinent in light of COVID19