



# Scaling access to clean cooking in East Africa

Integrating cooking and electricity

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**Clean cooking is the most under-invested health & environmental problem in the world**



**2.6 billion** people globally lack access

**\$2.4 trillion** annual cost to world economy

**4 million** premature deaths each year

**120 Mt** climate pollutants per year

**More than half** black carbon emissions

**10 percent** rate of access in Sub-Saharan Africa

# Progress on clean cooking has been worryingly slow

**81%**

**population**

without access live in  
only 20 countries  
2015-2019

**7**

**countries**

have achieved no more  
than a 5% access rate

**2.4b**

**people**

will still be without access  
to clean cooking in 2030  
at current pace

## In Sub-Saharan Africa, population growth outpaced gains in access

- In 2019, for the first time, more people without access to clean cooking fuels and technologies resided in Sub-Saharan Africa than in any other region, surpassing Central Asia and Southern Asia.
- The access deficit in Sub Saharan Africa has risen by more than 50 percent since 2000.

7 of the top 20 deficit countries have no more than 5 percent access to clean cooking



# We can solve this problem

The solutions exist.

Innovations in technology, business models and financing are making these solutions more affordable and accessible.



## LPG Distributors

Companies developing innovative technology and business models to sell 'tool and fuel' to customers



## Biofuel & Stove Distributors

Companies selling stoves together with a biofuel distribution model (typically either ethanol or biomass pellets)



## Biogas System Companies

Companies offering pre-fabricated biogas systems with consumer financing and long-term maintenance



## Biomass Fuel Producers

Companies producing biomass fuel (typically pellets, briquettes or ethanol) in industrial-scale manufacturing



## Stove Manufacturers

Companies producing stoves (wood, charcoal, pellets, ethanol, electric or gas) in industrial scale manufacturing



## Distribution & Financing Companies

Companies selling clean cooking solutions alongside other products, often together with consumer financing schemes



# Integrating electricity and clean cooking can accelerate progress

**Increase**  
electricity  
consumption

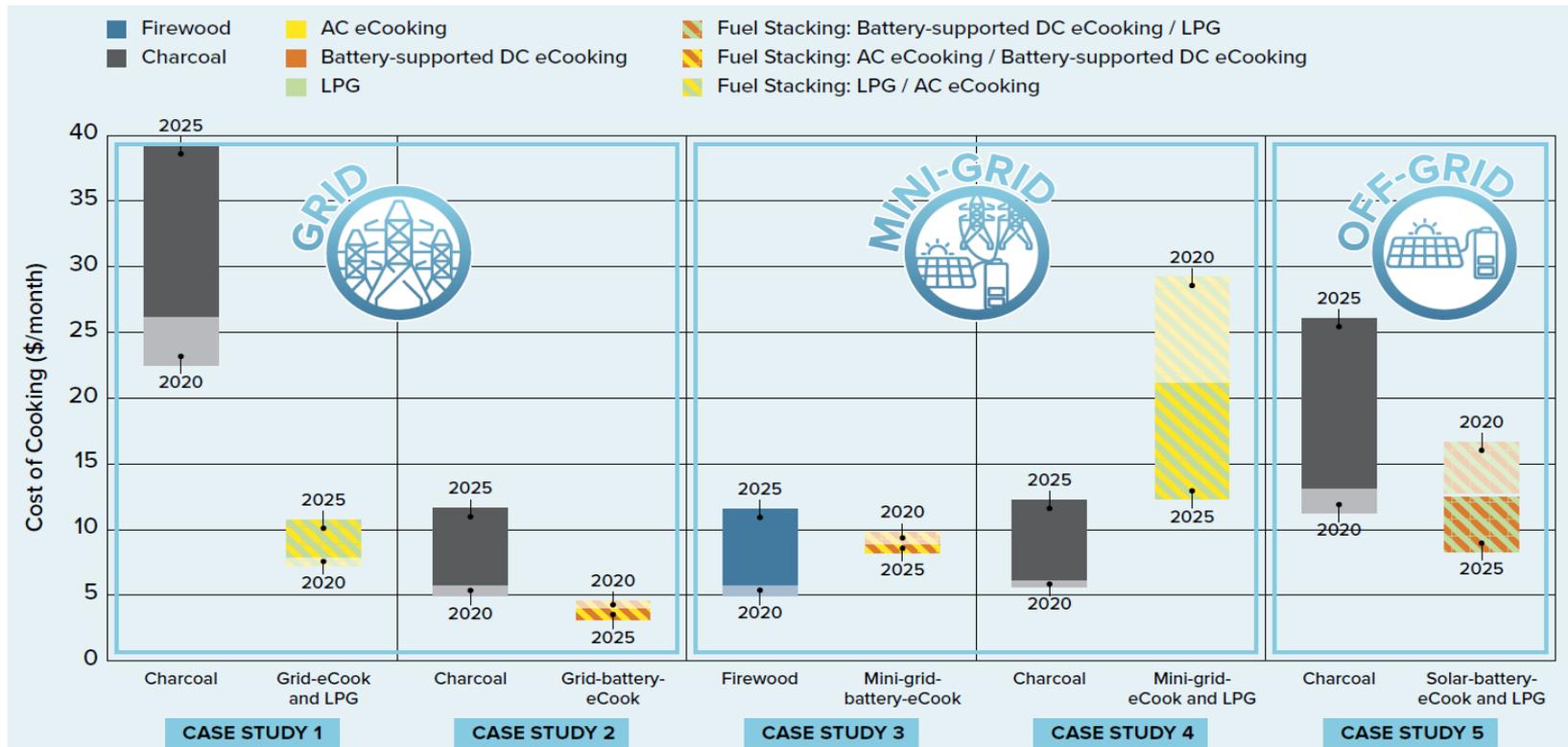
**Reduce**  
electricity  
unit costs

**Improve**  
viability of electric  
cookstove

**2 billion people have access to some form of electricity but continue to cook with biomass**

- In some places, using modern energy-efficient appliances to cook with reliable grid electricity already offers a cost-effective opportunity to enable clean cooking.
- For people with unreliable electricity access, as well as people who are still not connected to the grid, a suite of new clean cooking technologies and business models is emerging.

# Modern cooking services are increasingly cost-competitive with traditional biomass





# Accelerating access requires a coordinated, systems-approach

## Governments

integrated planning,  
consistent regulation and  
enforcement

## Private Sector

financing and technological  
innovation

## Investors

finance across the entire  
supply chain

## Public Sector

targeted support that  
leaves no one behind



**Bringing women to the  
forefront of the global  
energy transition is  
essential for ensuring  
no one is left behind.**



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The Clean Cooking Alliance works with a global network of partners to build an inclusive industry that makes clean cooking accessible to the three billion people who live each day without it. Established in 2010, CCA is driving consumer demand, mobilizing investment to build a pipeline of scalable businesses, and fostering an enabling environment that allows the sector to thrive.

Learn more at [cleancookingalliance.org](https://cleancookingalliance.org)