Embracing modernity while preserving tradition final presentation.

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Embracing Modernity While Preserving Tradition

The Role of Innovative
Cooking Technologies in Sustaining African
Culinary Heritage



By Dr Bridget O. Menyeh 9th May 2024 African Heritage Conference

Presentation Outline

- Brief Context

 Challenges of African Cooking Methods

 State of pages to place pooling
- State of access to clean cooking
- Achieving Universal Access and Fuel mixes
- Challenges with cooking with electricity
- Achieving a just transition
- Conclusions

Context: Food and Heritage

Food is a key element in the preservation and representation of cultural heritage(Di Giovine and Brulotte, 2016)

UNESCO recognizes certain food practices as intangible cultural heritage.

Example, Ceebu Jen from Senegal (Inscribed in 2021). Recipe and techniques are traditionally passed down from mother to daughter



Challenges of African Cooking Methods



Health Concerns



Environmental Concerns

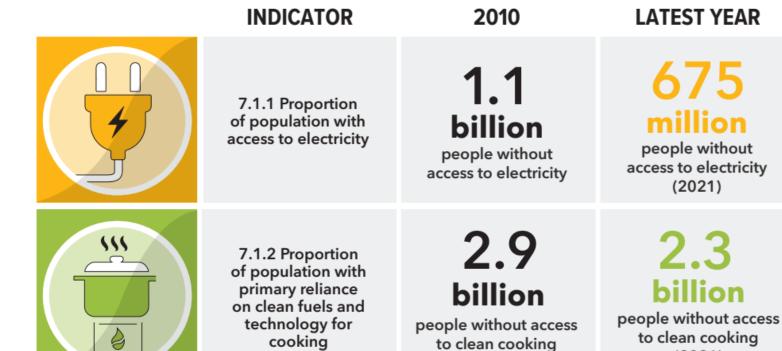


Gender inequality



Image credit: Hivos

What is the state of access to clean cooking?



LATEST YEAR SSA (2021)

~ 500 675 million million people without access to electricity

(2021)

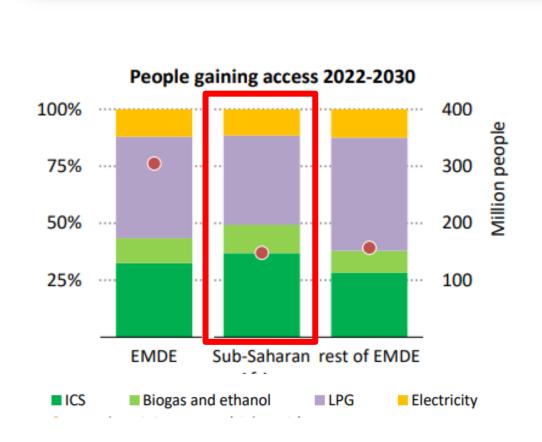
(2021)

people without access

940 million

people without access

Outlook to 2030 (Access for all Scenario)



Source: IEA(2023)

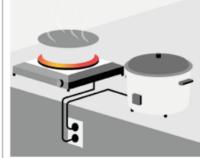
Improved biomass stoves

An enclosed stove that burns solid fuel, but keeps heat from escaping and improves combustion, thereby reducing smoke. There are many types of ICS, each with different performance standards.



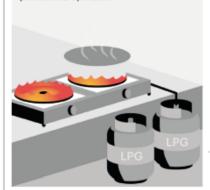
E-cooking or electric stoves/cooking

Primarily hot plates, induction stovetops, rice cookers or electric pressure cookers for those gaining clean cooking access, but technically includes all electric cooking appliances.



LPG stoves

A burner that uses a stable mixture of propane and butane distributed in large pressurised cylinders.



Biodigesters

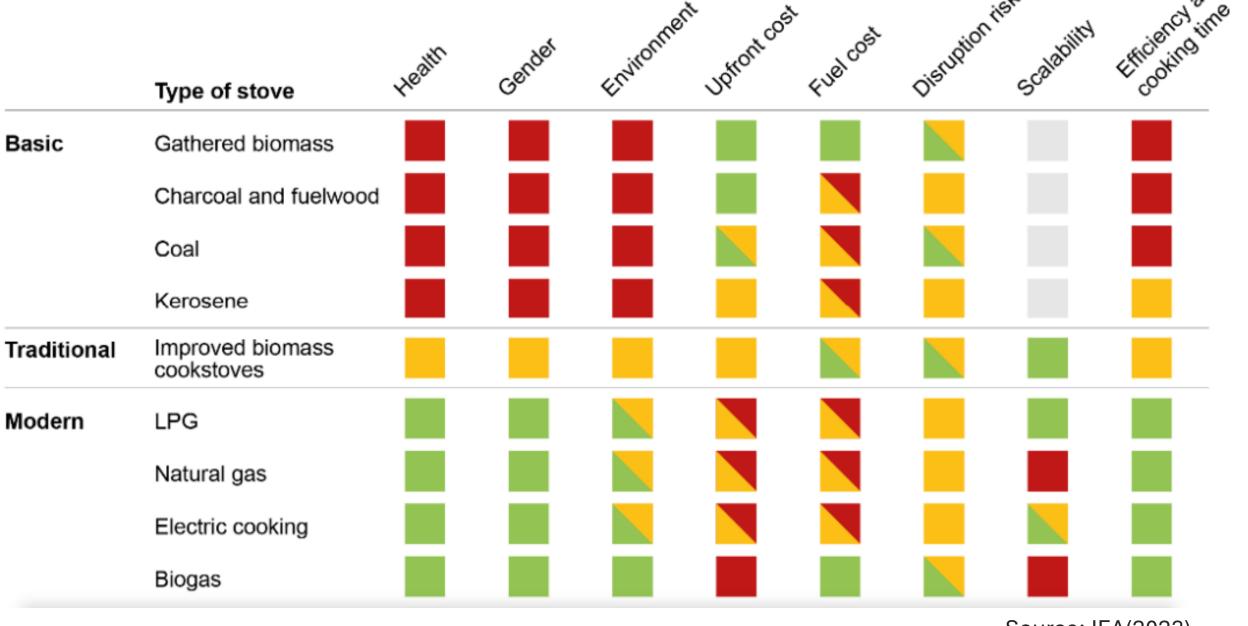
A large vessel where organic matter (animal manure, agriculture residues, food waste) is decomposed into biogas. This biogas is then used in a human, type stove



Ethanol

A simple burner that attaches to a small canister containing alcohol fuel made from crops, such as corn or sugar, that has been fermented and distilled.





Source: IEA(2023)

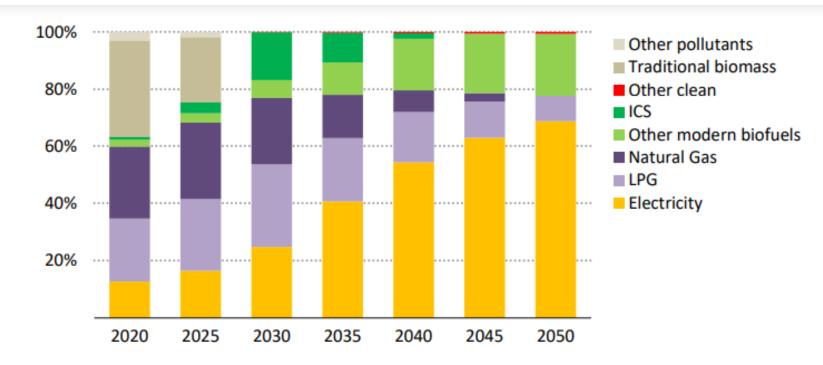
High performance

Medium performance

Low performance

Not applicable

Outlook toward 2050 in emerging market and developing economies



IEA. CC BY 4.0.

Every household has access to modern cookstoves by 2040. Electric cooking becomes the norm, but gas and liquid cooking fuels persist, albeit increasingly lower emissions

Source: IEA(2023)

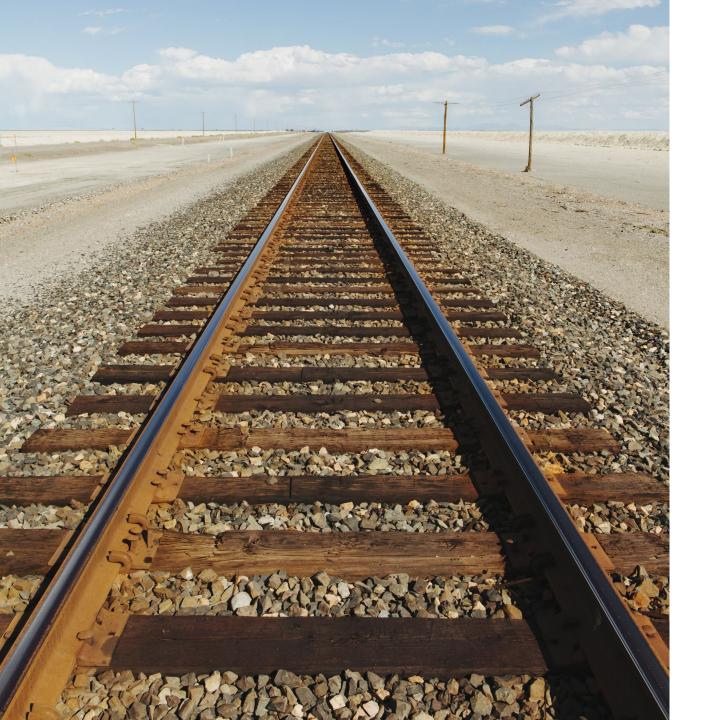


Image credit: MECS

Evidence from Consumer trials and pilots

The Modern Energy Cooking Services programme has demonstrated through its pilots and trials that cooking with electricity is hindered by (often false) perceptions around

- Cost
- 2. Taste and safety
- 3. Lack of awareness or availability of aftersales service
- 4. Access to reliable electricity
- 5. Reluctance of male decisionmakers to authorise appliance purchase (Leary et al., 2021)



How can Africans Become Part of the Change?

- Climate change is influencing the way things are done
- Modern Cookstove design and manufacturing needs to involve Africans and way for innovating on our biomass type stoves.
- Some manufacturing facilities like Burn in Kenya
- How can we upskill the stove developers and people who work in the wood and charcoal informal sector?
- These are all considerations to ensure the preservation of African food heritage.

Summary and Conclusions

The dependence on biomass fuels in African cooking practices is having on toll on the health of women and girls, impacting the environment and hindering the attainment of gender equality

Accelerated efforts are required to achieve universal access by 2030.

Studies have shown that modern cooking appliances or fuels can address the challenges and ensure preservation of some African food or dishes. This can be achieved with a multi-use strategy

Future towards 2050 will see electric cooking as the norm, despite the benefits, jobs in the wood and charcoal sector at risk. Building manufacturing capabilities needed for a just transition.

References

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Di Giovine, M. A., & Brulotte, R. L. (2016). Introduction food and foodways as cultural heritage. In Edible identities: Food as cultural heritage (pp. 1-27). Routledge.

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Thank you for your attention