Investigating the amenability of residents in Adamawa, Nigeria to the adoption of cleaner cooking stoves and solar powered flash lights financed with micro-loans

BY

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How do you cook food in your home?

- Using an open fire outdoors: 150
- Using an open fire inside the house: 200
- Using a stove inside the house: 10
- Using stove outside the house: 5
Meals cook in my household are shared with:

- less than four people
- 4 to 6 people
- 6 to 10 people
- more than 10 people

Frequency
What type of cook-stove do you use?

- 3 stones: 300
- An improved cook-stove that is energy-efficient: 0
- Gas stove: 0
- Electric stove: 0
What fuel do you use most often to cook your food?

- wood: high frequency
- gas: low frequency
- rice husks or other plant byproducts: very low frequency
- paper: negligible frequency
- dung: negligible frequency
- charcoal: negligible frequency
- electricity: negligible frequency
- Others: negligible frequency

Frequency
Where do you find the fuel that you use for cooking?

- Fuel is purchased from a store
- Fuel is bartered with other goods my household provides in exchange
- Fuel is gathered by myself or my family members in an area outside home
- Fuel is gathered by a person who is paid to gather and provide fuel for my household
- Fuel is gathered on another person's private property and the owner of that property is paid
If you gather, rather than purchase, your own firewood (or other cooking fuel), how much time do you spend each week gathering the fuel you need for cooking?
If children in your household (under age 15) are involved in gathering firewood (or any other cooking fuel), how many hours per week does each spend on gathering fuel for cooking?
If you or any member of your household is involved in gathering fuel cooking, does gathering fuel ever endanger you (or another household member's) health, safety, or well-being?
If you purchase your fuel at a market, in a store, or from a fuel gatherer, how much money is spent every week on fuel to cook in your household?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>naira per week</th>
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<tbody>
<tr>
<td>100</td>
<td>less than 20</td>
</tr>
<tr>
<td>50</td>
<td>20 to 50</td>
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<td>20</td>
<td>50 to 100</td>
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<td>100 to 200</td>
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<td>100</td>
<td>500 to 1000</td>
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<td>20</td>
<td>more than 1000</td>
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How do you feel about your method of cooking food?

- I am very comfortable using my current method and am unlikely to change this.
- I am very comfortable using my current method but have felt the need to learn a new method.
- I am not happy with my current method of cooking food and am looking for an alternative.

Frequency
What method do you use for lighting and illuminating your home?

- Kerosine lamp
- Wood torch
- Electric lamp
- Solar lamp
- Battery Powered lamp
- Candle paraffin
- I have no illumination in my home other than natural light during the day

Frequency: 0-125
How do you feel about the lighting in your home?

- I have enough illumination in my home and am not looking for more.
- I have enough illumination in my home but am open to increasing how much I have.
- I do not have enough illumination in my home and do not believe there are affordable methods available.
- I do not have enough illumination in my home but believe methods may be available.
Which of the following technologies are you aware of?

- Efficient cook stoves that cook substantially less wood/charcoal for fuel
- Stoves that use gas for fuel
- Solar powered lamps that can also be used to charge small electrical devices such as mobile phones or radios
- I am not aware of any of these devices

Frequency
How much do you spend for lighting/Electricity fuel per week?
If you had a solar lamp that you could power without ever needing to purchase batteries or kerosene, you would:

- prefer this type of lamp to a kerosene/battery lamp even if it were a little more expensive to buy
- prefer the lamp if purchase price is equal or lower than kerosene/battery lamp
- never prefer any solar lamp to kerosene/battery lamp even if the price is equal
If you believe that your household and your well-being would be significantly improved and reduce your fuel expense if you had access to an affordable lamp, would you be willing to take a loan to buy such a lamp?
If you do not have electricity in your home, but often need to charge a mobile phone, how do you recharge your phone?

- I pay to charge my phone
- I charge my phone elsewhere without paying
- Using a solar powered charger
- Others

If you do not have electricity in your home, but often need to charge a mobile phone, how do you recharge your phone?
How did you/your household pay for mobile phone (if you have any)?

- in cash
- using loan from a bank or a loan from another person
- i did not pay for the phone, I received it for free

Frequency
What was the price you paid for your mobile phone?

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Less than 6000 Naira</th>
<th>Between 6000 and 12,000 Naira</th>
<th>more than 12000 Naira</th>
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</tbody>
</table>
What is your highest education?

- No formal education
- Primary school
- Secondary school
- Tertiary education

Frequency

0 25 50 75 100 125

No formal education | Primary school | Secondary school | Tertiary education
How many adults are living in your house?

- 0-2 adults: 50
- 3-5 adults: 150
- More than 6 people: 150
How many household members earn income?

- 1 person: 75
- 2 persons: 125
- More than 2 persons: 125

Frequency
Do you (or Someone in your household) have a bank/mobile bank account?

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<tr>
<th>Frequency</th>
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<tbody>
<tr>
<td>300</td>
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<table>
<thead>
<tr>
<th>yes</th>
<th>no</th>
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<tbody>
<tr>
<td>300</td>
<td>100</td>
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</table>
If you have taken out loans in the past, how difficult was it for you to repay these loans?

- I was able to repay my loans without difficulty
- I was able to repay my loans but I was able to pay back some loans but not others

Frequency