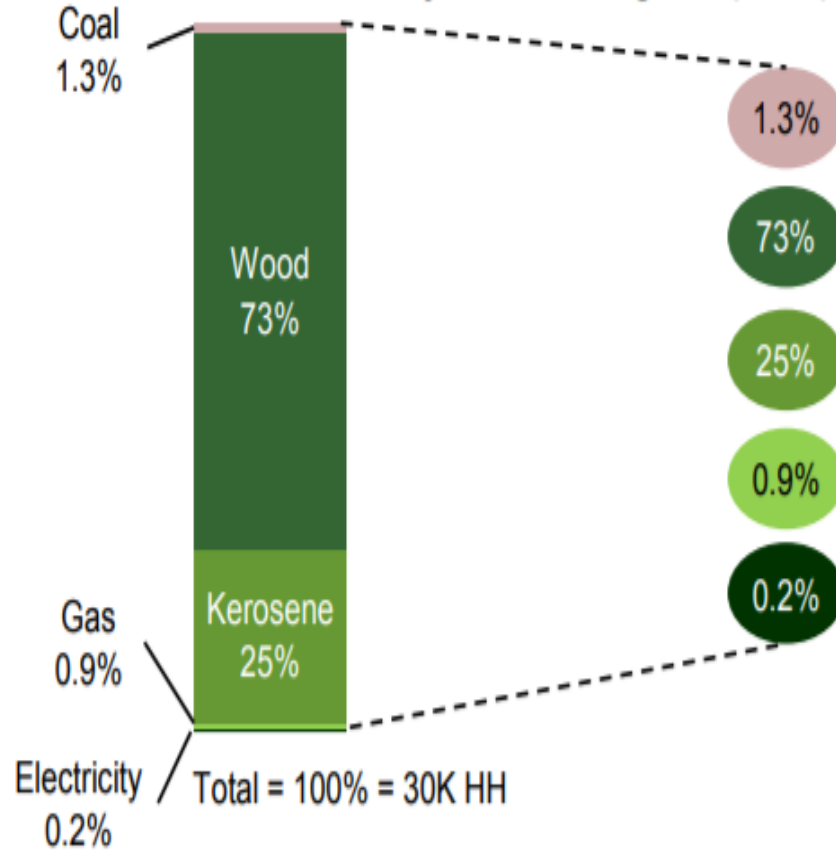


Survey on Current Cooking and Lighting Practice in Adamawa State, Nigeria

Milan Rusnak
UNEP DTU Partnership

November 16, 2018

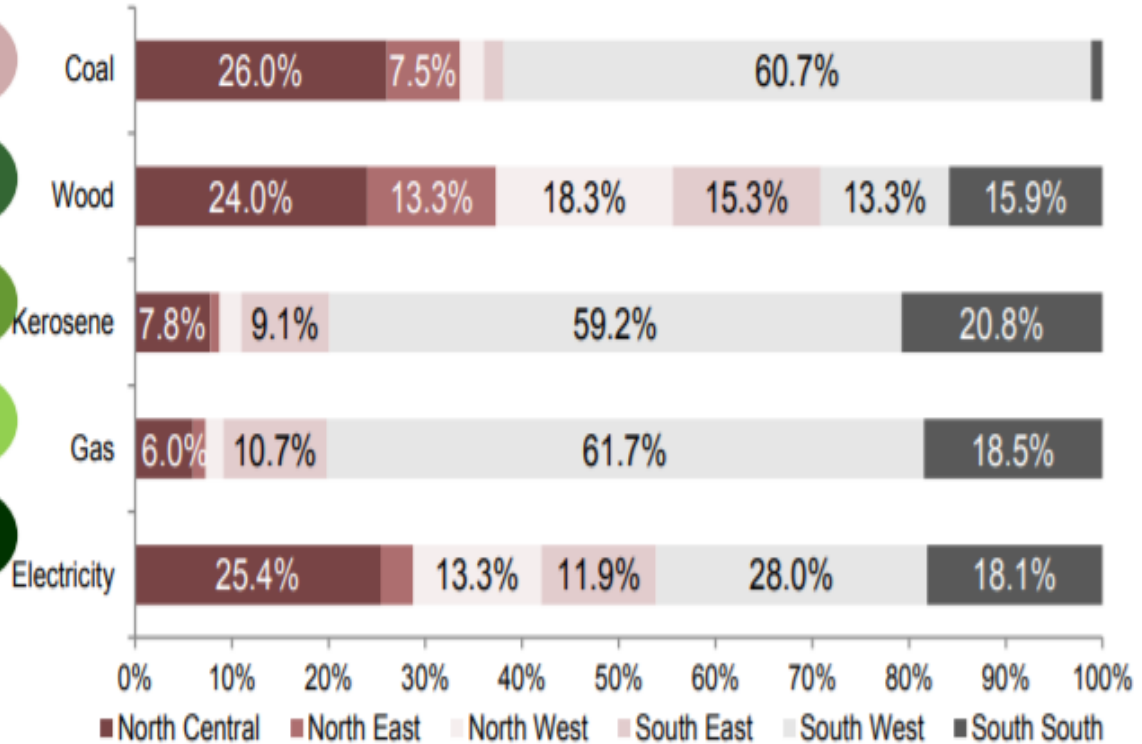
Household Distribution by Fuel for Nigeria (2008)



Fuelwood

- Fuelwood is the most popular household cooking fuel
- The North Central region has the highest dependency on fuelwood

Distribution of Household by Fuel and Region (2008)



Kerosene

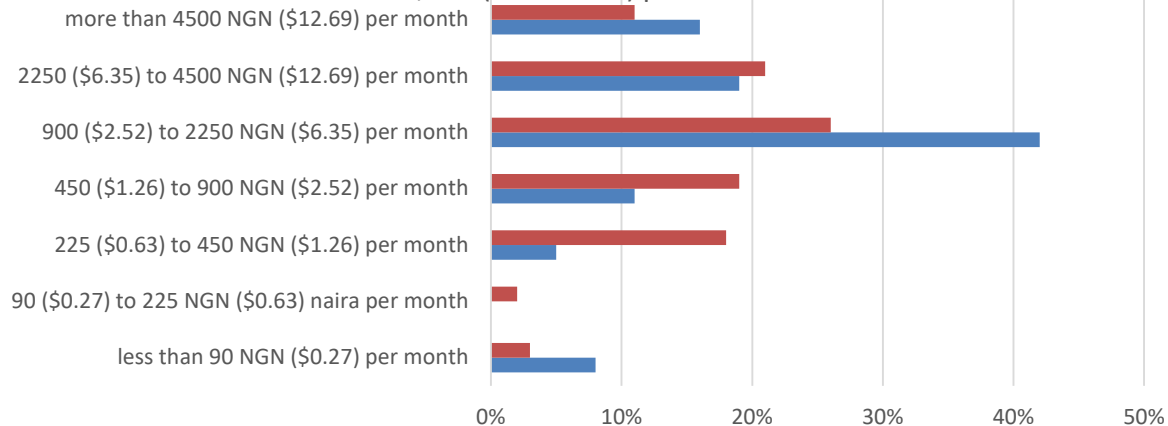
- The majority of kerosene dependent households are located in the southern regions
- The South West, because of Lagos, has the highest kerosene using households

LPG

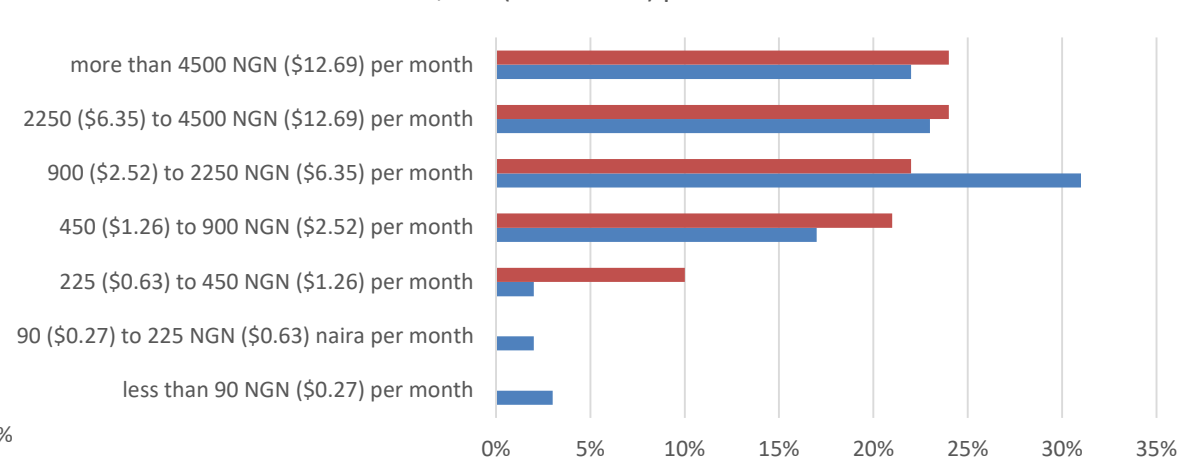
- LPG penetration is very low
- The majority of LPG users are located in the South West region – Lagos and Ogun are the only two states where LPG users are higher than biomass users

Share of Energy Costs on Income

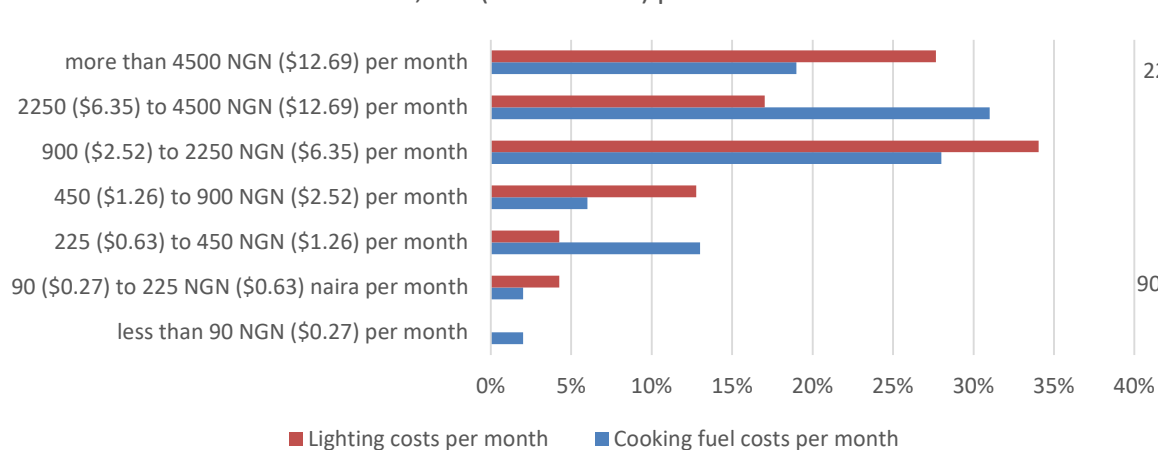
Households with income between NGN 10,000 (USD 28.17) and NGN 20,000 (USD 56.34) per month



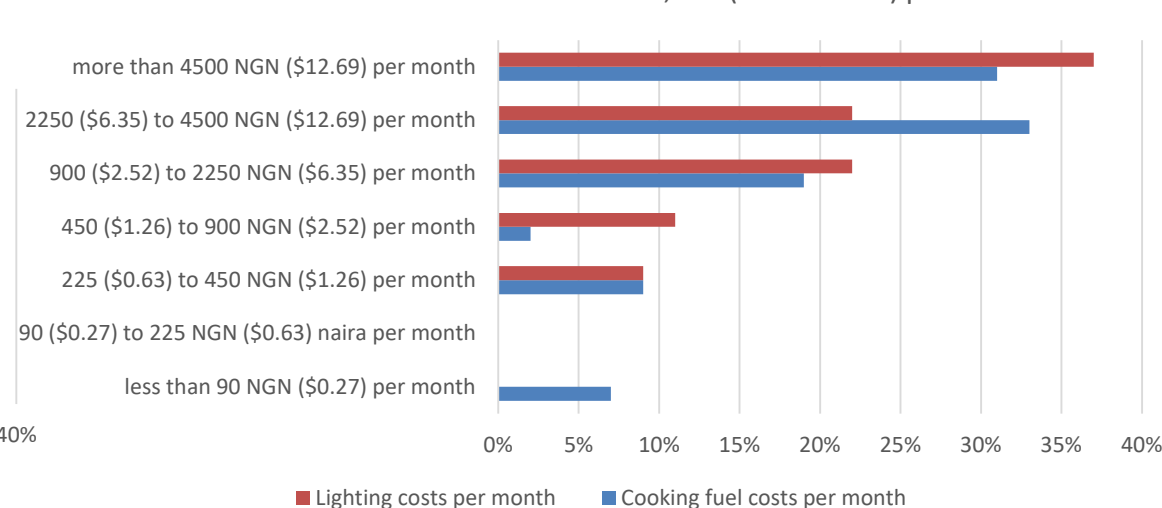
Households with income between NGN 20,000 (USD 56.34) and NGN 30,000 (USD 84.51) per month



Households with income between NGN 30,000 (USD 84.51) and NGN 40,000 (USD 112.68) per month



Households with income above NGN 40,000 (USD 112.68) per month



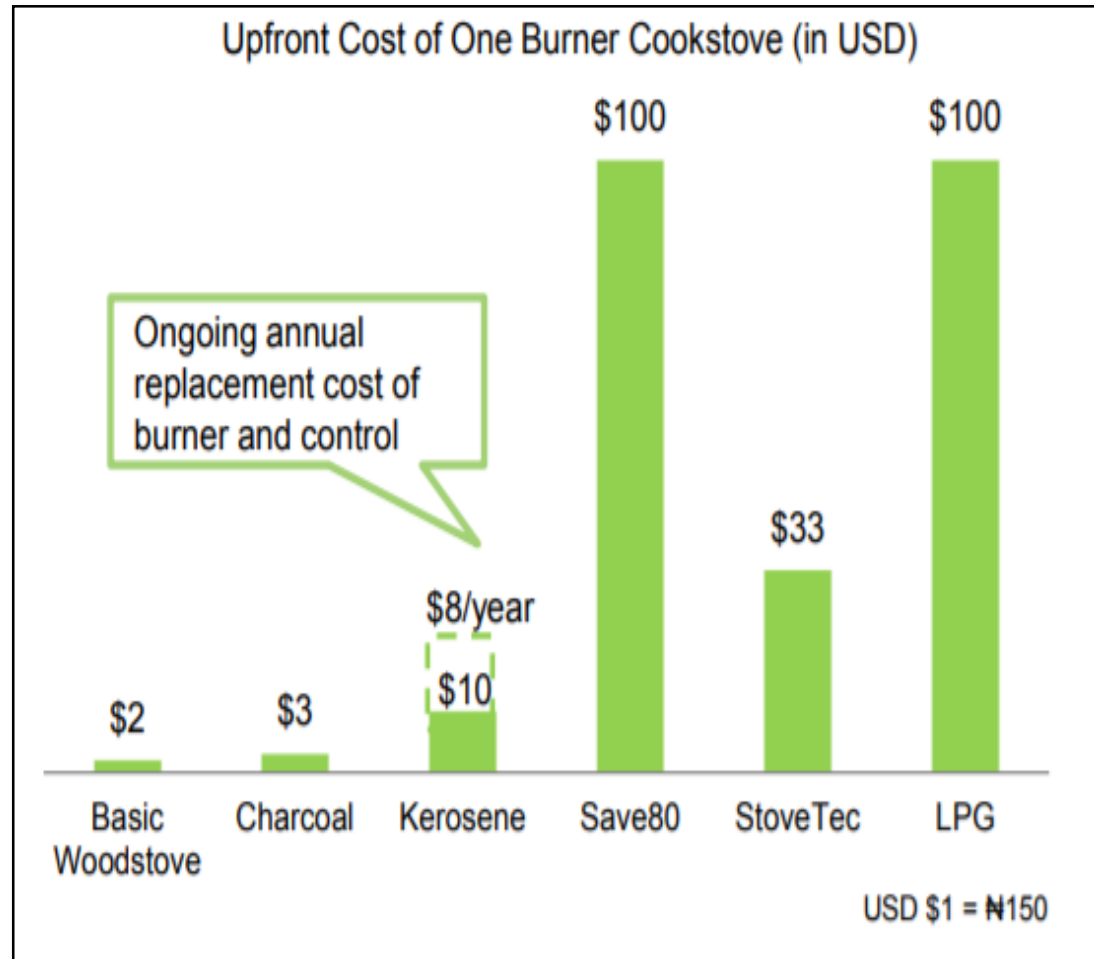
■ Lighting costs per month ■ Cooking fuel costs per month

■ Lighting costs per month ■ Cooking fuel costs per month

Lighting Equipment - examples

LIGHTING		
Company/Brand	Products	Costs
Above USD 30 USD – Solar Home Systems		
BTS Energy	Energy Solar Home Lighting System BTS-902. Weblink	USD 54 (NGN 19,500)
D light	Solar home systems for lighting. Weblink	USD 97 (NGN 35,000)
Generic	Generic Solar Home System 32" TV Appliance. Weblink	USD 972 (NGN 350,000)
Below USD 30 – Solar lamps and chargers		
Sunking (Kenya)	A wide range of solar lanterns and some that are also mobile phone charger. Weblink	~ USD 16 - 32 (NGN 2800 - 11,800)
Awango by TOTAL	Range of solar lamps and panels Weblink	Lowest USD 16 (NGN 6000)
D light	Solar lighting solutions. Largest distributed solar lighting brand for households and small businesses in off-grid communities	~ USD 8 – 27 (NGN 6000 – 9800)
Solar	Solar Power Bank 6000mAh With Fluorescent Light	USD 14 (NGN 5000)

Cooking Equipment - examples



Source: Global Alliance for Clean Cookstoves, 2011

Significant Findings

Characteristic	Percentage	Interpretation
Pay to charge their mobile phone	83%	Potential for cost savings with the use of combined solar light and charger
Are aware of either efficient wood cookstoves, solar power lamps or gas cookstoves	94%	Reduced need for awareness campaigns about the technologies
Would buy a lamp that would contribute to reducing their fuel expenses	84%	Willingness to buy provided that there are financial benefits
Willingness or potential to change to a new cooking method	82%	Lower risk of rejection of the technologies if openness to change is present
Interested in increasing the level of lighting in their home	87%	Clear interest in improved lighting and thereby potential willingness to buy such service