

Potential Energy and the Impact of the Berkeley Darfur Stove on Refugees in Sudan and Uganda



Enabling the adoption of improved cookstoves to alleviate poverty and protect the environment.



We believe that every human should have access to safe, clean, efficient cooking technologies;

Yet many still lack access to improved stoves.



Three Billion People

still cook on open fires or rudimentary stoves.





This has massive

health, environmental, and economic repercussions



Death from Pollution



Excessive Deforestation



Lost Income on Fuel Expenses



In response to these issues, Researchers at Lawrence Berkeley National Labs developed a solution





The Berkeley-Darfur Stove



The Berkeley Darfur Stove (BDS)



Than traditional open-fire cookstoves



User-Focused Design



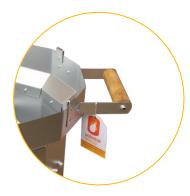
Stability Feet for Balance



Durable Cast Iron Grate & Stainless Steel Fire Box



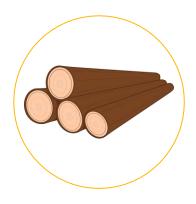
Long-Lasting Mild Steel Body



Stay-Cool Wooden Handles



Multiple Fuel Sources



Wood



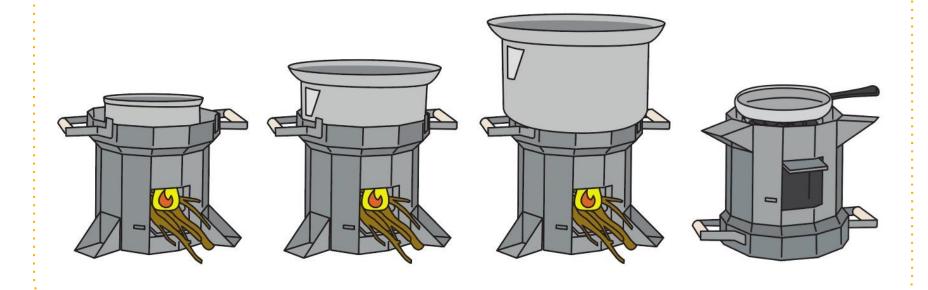
Charcoal & Briquettes



Biomass



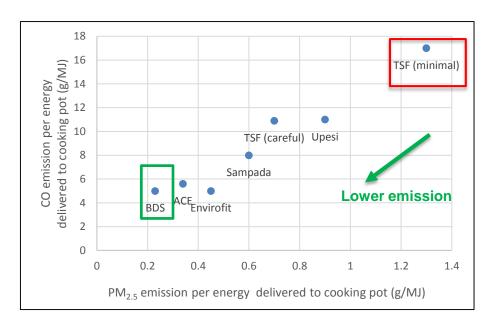
Fits all Size Saucepans





Emissions Reductions

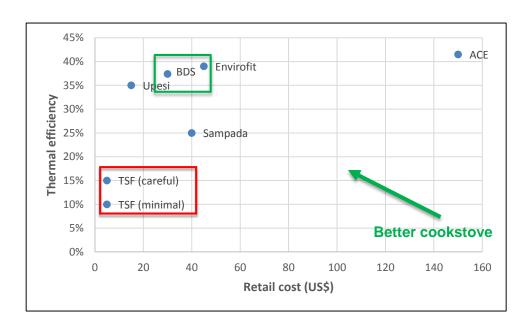
TSF – Three stone fire BDS – Berkeley Darfur Stove





Thermal Efficiency & Value

TSF – Three stone fire BDS – Berkeley Darfur Stove





Our Approach



Stove designed by Berkeley Labs



Distributed by local community organizations



Stoves assembled in local workshops and sold



Visit customers and collect feedback to ensure satisfaction



Competitive Analysis

	Efficiency & Fuel Savings	Emissions/ Reduced Smoke	Fuel Type Versatility	Cultural Compatibility/ Pot Size	Easy to Light and Feed	Light- weight/ Portable	Durability	After Sales Service, Warranty & Guarantee	Price
Potential Energy's Stove	Strong	Medium	Strong	Strong	Strong	Strong	Strong	Strong	Medium
Three Stone Fires/Traditional Charcoal Stoves	Weak	Weak	Weak	Strong	Strong	Weak	Medium	Weak	Strong
Mud & Brick Stoves	Medium	Medium	Weak	Strong	Medium	Weak	Weak	Weak	Strong
Clay & Metal Clad Stoves	Strong	Medium	Weak	Strong	Strong	Weak	Medium	Weak	Strong
Local Gasifier Stoves	Strong	Strong	Weak	Weak	Weak	Strong	Weak	Weak	Medium
Other Imported Stoves	Strong	Strong	Weak	Weak	Weak	Strong	Medium	Medium	Weak





Impact



Where we work





Impact in Sudan

230,000 people served

345,000 tons of carbon reduced





Potential Impact in Uganda

1,065,094 refugees*

1,597,641 tons of carbon reduced



*Source: Office of the Prime Minister.

From UNHCR http://data2.unhcr.org/en/situations/southsudan#_ga=2.169494753.1307392337.1534169868-1496225665.1495532462



Settlements visited	People interviewed	Haven't used the stove
Pagirinya	4	1
Baratuku	7	
Maaji I	5	
Mireiyi	9	1
Total	25	2
Percentage	100%	9%





Settlements visited	People interviewed	Both	Firewood	Charcoal	Biomass
Pagirinya	4	7			
Baratuku	7	3		2	
Maaji I	5	6		1	1
Mireiyi	9	16	3	4	1
Total	25	67%	12%	17%	3%
Percentage	100%	Both	Firewood	Charcoal	Biomass





Settlements visited	People interviewed	Fuel Saving				
		60%	50%	30%	Less	
Pagirinya	4	2	1			
Baratuku	7		2	3	2	
Maaji I	5		2	1	2	
Mireiyi	9	2	5	1		
Total	25	4	10	5	4	
Percentage	100%	17%	43%	22%	17%	





Settlements visited	People interviewed	Time Saving			
		60%	50%	30%	
Pagirinya	4	1	1	1	
Baratuku	7		7		
Maaji I	5		4	1	
Mireiyi	9	6	2	1	
Total	25	7	14	3	
Percentage	100%	30%	60%	10%	





Settlements visited	People interviewed	Overall Satisfaction Very Happy Indifferen	
Dogiriny o	4		mamerent
Pagirinya	4	3	
Baratuku	7	6	1
Maaji I	5	5	
Mireiyi	9	8	
Total	25	22	1
Percentage	100%	96%	4%





PO Box 35507. Block 3A, Kateeba Close, Muyenga, Uganda

+256 (0) 776 123 101

info@potentialenergy.org

www.potentialenergy.org