

Courtney Blodgett 18 April 2012

Africa Carbon Forum

To be defined for standardized baselines development

- Level of aggregation
- Relevant measure(s)
 - Fuel and feedstock switch
 - Technology switch
 - Methane destruction
 - Methane formation avoidance
- Output
- Sector



Hypothetical case study

- Level of aggregation: national, Rwanda
- Sector: cookstoves
- Measure: technology switch (same fuel)
- Output: heat for cooking (TJ)
- Carbon intensity measured in efficiency
 - For fuel switch, would be tCO₂e/TJ energy



stmosfair Rwanda Improved Cook stove PoA

Cookstoves in Rwanda



Stove type	Efficiency*
3 stone fire	10%
Basic metal stove	15%
Metal and clay stove	20%

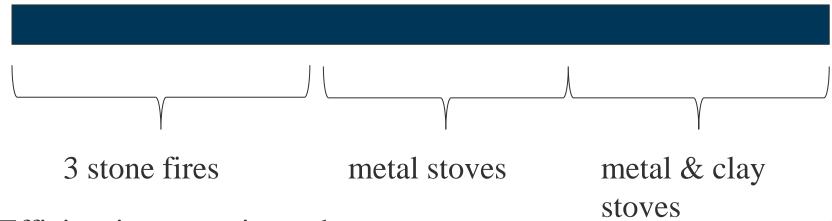






Ranking of technology types based on increasing efficiency

Stove type	Efficiency*	Ranking
3 stone fire	10%	3
Basic metal stove	15%	2
Metal and clay stove	20%	1

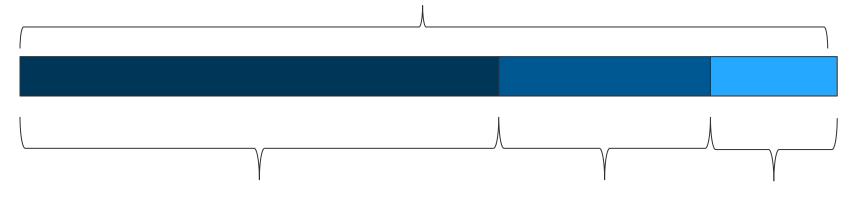


* Efficiencies are estimated

Ranking and output

Stove type	% of output*
3 stone fire	75%
Basic metal stove	15%
Metal and clay stove	10%

Cumulative output = 100% of heat for cooking in Rwanda



75% of cooking heat is produced by 3 stone fires

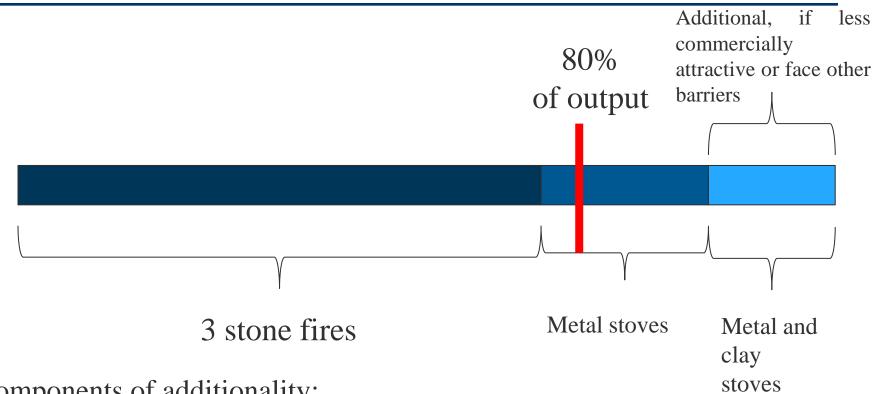
15% of cooking heat is produced by metal stoves

10% of cooking heat is produced by metal & clay stoves

* Output % are theoretical



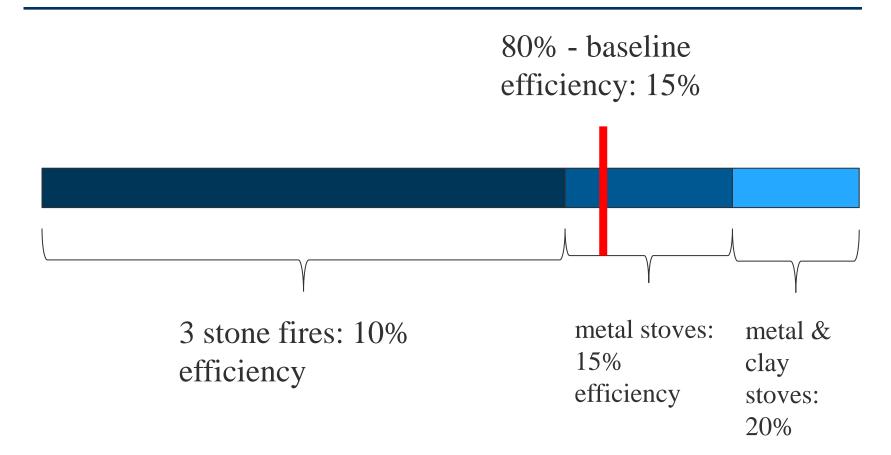
Additionality threshold: set at 80% of output



Components of additionality:

- Above threshold
- Less commercially attractive or other barriers
- No national or sub-national enforced regulation mandating the use of the technologies

Baseline efficiency: set at 80% of output





Summary

- Stove types that are additional:
 - Metal & clay stoves
 - Any other stoves with > efficiency
- Baseline efficiency: 15%

 Work needed for standardized baseline development is significant but improved cookstove projects will be greatly facilitated





Courtney Blodgett
Blodgett@perspectives.cc