

Convenient lighting with only one match



8:26 h

Fast and nearly smokeless start-up phase



8:26 h

aMaizing cooking

with loose maize cobs from a commercial farm in Malawi that provides food for their workers: example of gasifier dimensioned to cook 50 liters of porridge

Farmed fuel

- Replaces firewood with farm residues
- Produces biochar for nursery substrate
- Easy&safe CCS (Carbon Capture and Storage)

“Using FIRE to cool the Earth”
(Bates/Draper)

1 min: Ready for pot on



8:27 h

6 min: Steady flames



(skirt added later for safety)

No smoke, no refuelling or pushing of wood

8:32 h



10 min: ready to add flour

8:36 h

40 min: Porridge ready to serve.
COOKS LOVE IT!!!



flame going out by itself,
usually without smoke

9:06 h

Dumping char to
cool and conserve



Biochar -

Natural carbon sequestration & safe storage
with lots of other benefits e.g.

- Restore damaged soils and revitalize soil life
 - Make crops healthier and more resilient to climate change, improve yields
 - Reduce acidity and bind contaminants that potentially enter the water and food chain
- Also application in water filters for safe drinking water, etc. etc...

Biochar is an ideal tool for

- Carbon Capture and Storage (CSS)
- Climate change **mitigation**
- Climate change **adaptation** for improved climate resilience of agriculture and food security

Sieving: large pieces = easily igniting charcoal from maize cobs

Small pieces for biochar = priming with microbes and ready to go into the soil