

1. Motivation for project

Haiti is deforested, now falls the last mangrove forests



guentert energieberatung basel

REPIC side event Lausanne/ 31.may 2012

2. project idea/concept

Closed natural process for cooking

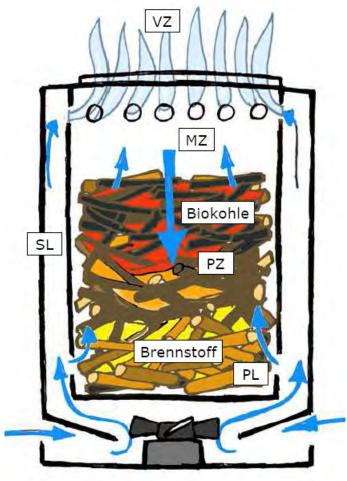


3. Main Targets

- Stop the **deforestation** (climate and resources)
- Promotion of **independent business** (economics)
- Protection against **smoke** when cooking (health)
- Terra Preta, Biochar to improve soil (nutrition)

4. Technology stoves

Pyrolysis, combustion with insufficient oxygen



Air supply control:

- **Primary air**, PL ($\lambda = 0.2$) flows from below into the fuel and flows upward to the PZ
- Secondary air, SL (λ = 2.5) is in the double-wall preheated and flows into the MZ

Quelle: www.ithaka-journal.net, modifiziert durch Stephan Gutzwiller

5. Technology combustible

Waste biomass into fuel



- Fuel briquettes out of rubbish takes waste into source of energy
- Materials like agricultural residues (dry leaves, grasses etc.) from banana, sugar cane, riz husk, straws, sawdust...
- 20 to 30% mixed up with waste paper and cardboard

6. Beneficiaries

Cooking and briquette manufacturer



- People who need to pay charcoal
- Middle and poor people near town
- Briquettes manufacturer in the country side
- Income through briquette instead of charcoal
- Environment and Forest

7. Acceptance by the beneficiaries



Participation beneficiaries

- low tech approach
- local production
- practical demonstrations on site
- motivation for own experience
- demonstrations by Haitian people in Creole

guentert energieberatung basel

8. Succeses and difficulties



technology acceptance

- + Meets their cooking habits
- + model for a self made press
- + own experience of fuel composition
- + Embed results from user studies

- cookware will be black
- press only for small quantities
- paper is not always present
- reloading of burning material disturbing
- planning skills are missing

9. potential for improvement



Better co-creation

- Formation and animation
- Decision makers as a pioneer
- Set an example apply yourself
- Motivation for use of planning skills





guentert energieberatung basel

Thanks

Pierre Güntert Colmarerstrasse 14 4055 Basel 061 322 31 75 email: p.guentert@sunrise.ch

Initiateur du projet

Conseille technique de la foundation main dans la main suisse

Project with help of REPIC, thanks!