

**„adam-retort“**  
an efficient and more  
environmentally friendly  
**charcoal production system** for  
bio mass



**O**n our world about **2 milliards of people** (1/3 of the world population) are using traditional **biomass** like wood for cooking and preparing their daily food. As a part of this fuel charcoal is used. Charcoal is more convenient and easy to use for many of these users. About 50 million tons of charcoal per year (or probably much more, [www.FAO.org](http://www.FAO.org)) are used worldwide and this charcoal is mainly produced by polluting and inefficient traditional earth mount kiln methods.....

I introduced (in Kenya and Peru) and invented an innovative “**adam-retort**” for the better production of charcoal from any biomass like wood or agricultural residues.

- \* The charcoal can be produced by using only about halve (1/2) amount of that biomass.....
- \* The charcoal is produced by emitting about 75% less of harmful wood gases (like methane ) into the atmosphere (flaring of wood gases, see photo right).....
- \* The “**adam-retort**” has the potential of saving millions of tons of trees and avoiding pollution of milliards of cubic meters of clean air per year.....
- \* The “**adam-retort**” can be built by locally available materials and low budget (~500€) per unit.
- \* A convenient and appropriate design and an unique technology facilitates that this “**adam-retort**” can be built all over the world.



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