Evaluation of Three Solar Cooker Projects in Burkina Faso

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Solar cooker Bamako (SK 14)

Power: 0.6 kWth

Under optimal conditions 6.27 l water boil in between 1 hour

16 l pot

Solar Cooker: Papillon

The performance of the Papillon is 50% higher

10.75 l of water boil within an hour

20 l pot can be used

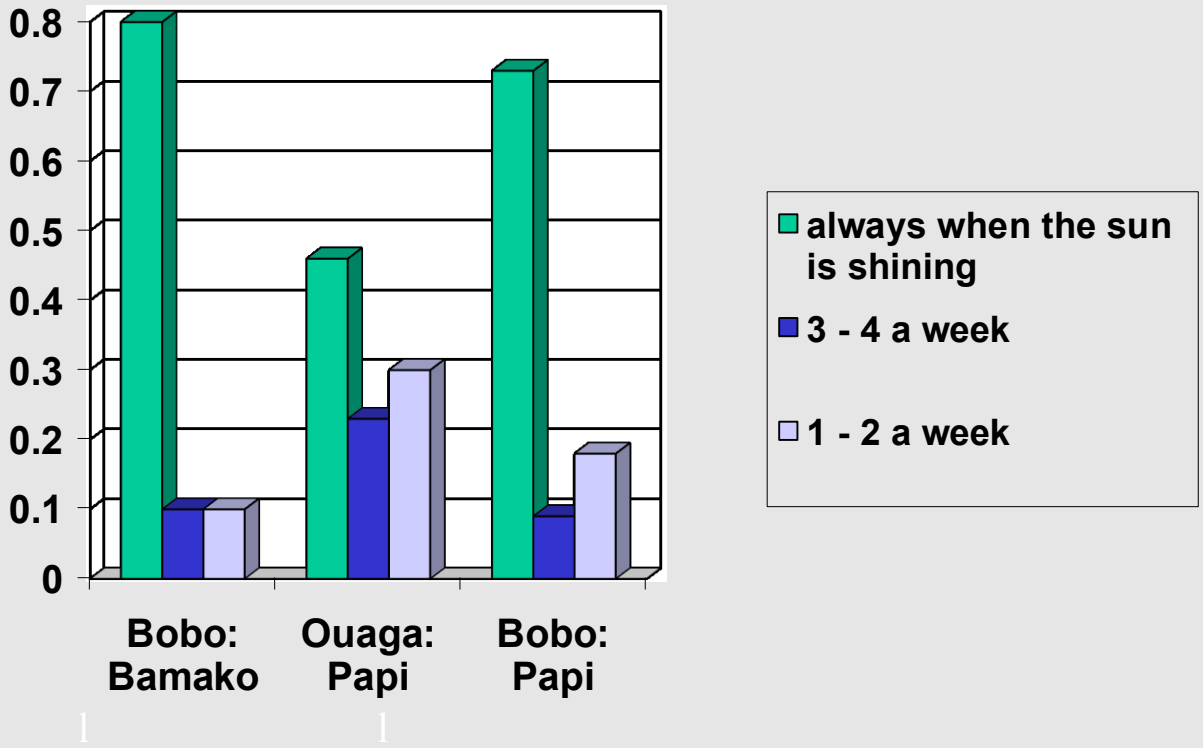
Projects

Bobo 1
A Bamako for 10 low budget families
Subsidies: 70%

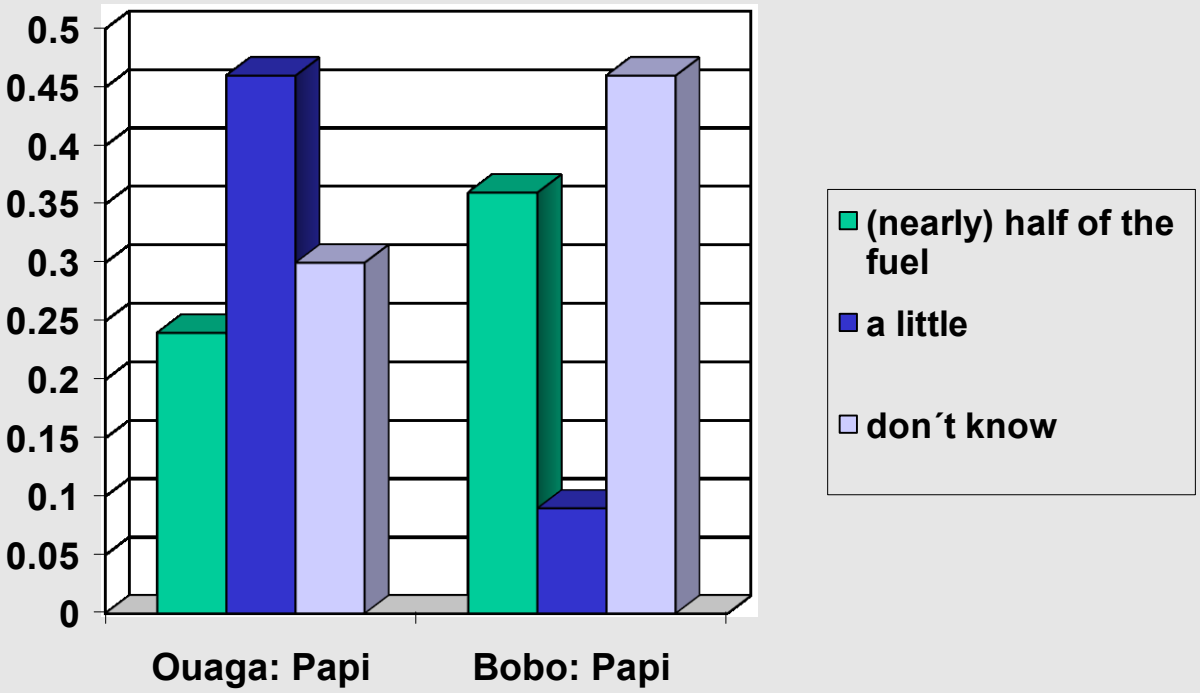
Ouaga
35 Papillons for the women of the UFD
Subsidies: none

Bobo 2
16 Papillons for the protestants
Subsidies: 20%

Results: How often is the solar cooker used?



Results: How much fuel is being saved?



Conclusions

A lot of families don´t use the solar cooker to its full extent.

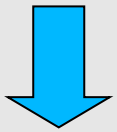
Why?

We need more time when cooking with the sun.

We have to cook at certain hours.

Conclusions

We depend on the moods of the weather

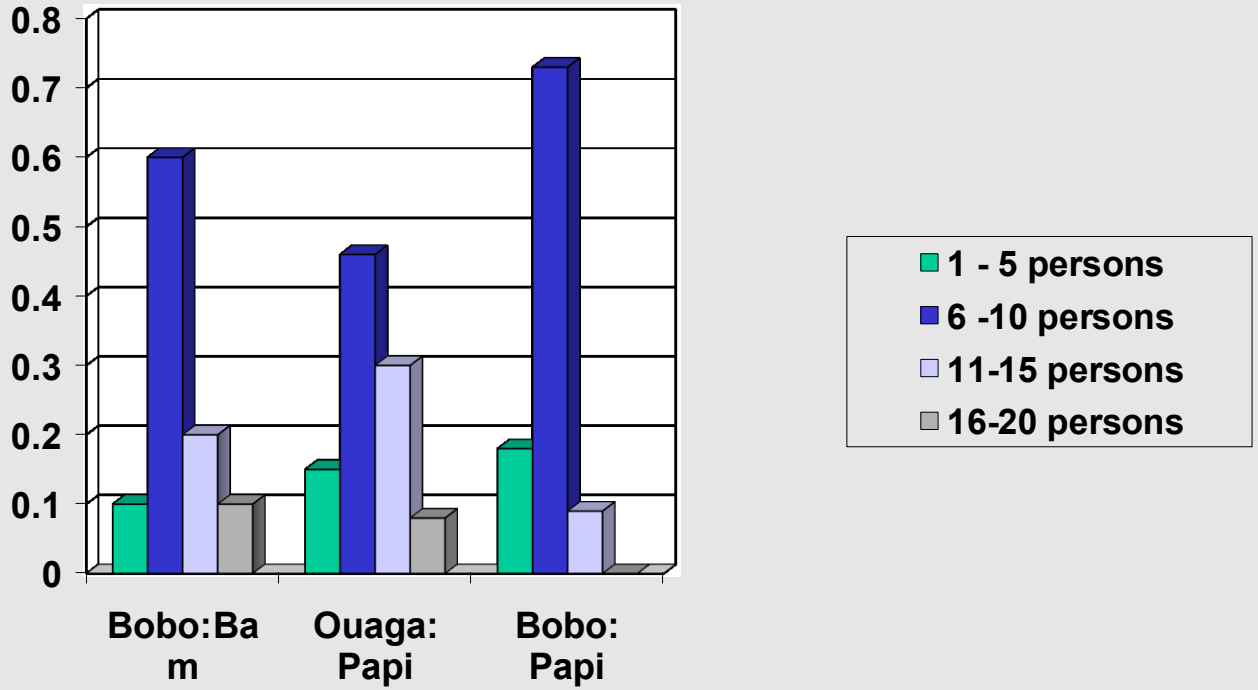


So we have to be flexibel and highly motivated

A good training helps us to use the SC

Conclusions

Our family size should not extent 10 – 15 persons



Conclusions

There must be enough space and sunshine

Conclusions

We need paying conditions that allow the majority of the families who have no steady income to buy a solar cooker.

We need a good after sale service.

In which condition are the solar cookers?

Project 1: 9 of the 10 Bamako´s are working well. One will be repaired next week.

Project 2: 12 of 15 Papillons in Ouaga are in a good condition. 3 SC's are damaged, two are still working, one not.

Project 3: The 13 Papillons we checked in Bobo were in a good condition after 4 months of use.