

Eco Stoves Project Report 2023



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Date: 13.10.2023

Introduction:

The implementation of eco stoves project started on 15th March 2023, and covered two chiefdoms (Nsefu and Jumbe) with a completion date of 31st October 2023. The project had 3 targets/goals, which are as follows:

The first goal was to build 1400 eco stoves within Nsefu Chiefdom in a period of 6 months, which was successfully achieved and exceed its expectation by making 1660 stoves in a period of 4 and a half month.

The second goal was to make 600 stoves in Jumbe chiefdom, which started on 15th July 2023 with the completion date of 30th September 2023. Its target was also successfully achieved within the schedule by making 613 stoves.

The third goal was to make 1000 stoves within Jumbe in a period of 2 month, this target was successfully achieved ahead of schedule.

The whole project targeted to produce 3000 stoves for a period of 7 and a half month. This target was successfully achieved ahead of schedule and we are expecting to construct 400 more stoves by 31st October 2023 within the budget. This stipulates that we will make 3600 stoves all together.

The project objective, duration, and area:

The objectives of the project were to teach the community members how to build and repair the stoves as well as how to use them, so that they can use less firewood for cooking. The eco stoves

project was implemented in 107 villages with the initial target of making stoves in 3000 households in Nsefu and Jumbe Chiefdom, in a period of 7 and a half months. This target was successfully achieved ahead of schedule and we will surpass its expectation by 31st October by making 400 more stoves bringing us to the total number of 3600 stoves in 120 villages.

Successes of the project:

How goals and targets of the project were achieved.

1. By making sure that the owners of the kitchens are there as the implementation is in the process.
2. Kicking off meetings.
3. Monitoring frequently to measure the impact.
4. The coming up of eco stoves making instruction on 4th October 2023 contributed to run the project faster than before.

The resources used during the whole course of the project:

From 15th March to date the project had the budget of 104,909 Zambian million kwacha. From the budget, K96,909 used and we still have the remainder of 8000, which will be used for stipends by the end of October 2023. The money was used to buy the resources such as Bicycles, Camping equipment, plastics, Bicycle spires, Containers, food and stipends. The table 1 in figure below shows the breakdown of how money was used during the whole course of the project.

Items	Total amount
Camping equipment	7,800
Bicycles	11,434
Transport	2000
Plastics	3500
Work suits	1050
Talk time	375

Food	40,500
Containers	200
Plates and pots	550
Stipends	29,000
Solar Charging lights	200
Bicycles spares	300
	Overall Total K96,909

Tab. 1. The budget used.



Fig.4. Community group meeting at Chibale Village.

Initial Meetings:

Since when the implementation of a stove project started, 34 community group meetings conducted in different areas within Nsefu and Jumbe. The meetings conducted **before** and **after** the project were implemented. After the first meetings of the project held, that is when the process of stove construction could begin. These meetings were held with the purpose of

sensitization to the community members and telling them the importance of using stoves in the community and the forest. These meetings did not only impart the community members with motivation to use the stoves, but also the importance of the conservation of trees in general. After people understand this importance that is when we go into the villages to assess the kitchens in each household. Only those community members who have covered kitchen benefit from this mode of cooking as rain will damage the stoves. If the household has a covered kitchen, collect six 20-liter buckets of soil and 20 liters of water and make the mud as they were taught from the meeting. At this point it is our duty now to make a stove for them.

The individual meetings also conducted after two weeks from time a stove was made. These meetings were held with the purpose of training the householders on how to use a stove.

Another community group meeting was also held after using a stove for a week. The purpose of these meetings was to hear from the community as a group. At these meetings people were free to say their thoughts and benefits they are seeing while using a stove. Some of the benefits they mentioned are listed below.

1. Cooking faster
2. Using less firewood
3. Not collecting firewood as frequently as before.
4. Producing less smoke as the firewood burning.
5. They are safer as compared to the traditional one, in the sense that the fire in this mode of cooking is burnt inside the oven while in the traditional one is just open.

The meeting attendances during the whole course of the project are shown in Table 2 in the figure below.

Meeting Number	Date	Attendance	Area
1	14.03.2023	27	Chisani
2	18.03.2023	30	Munkhuli
3	24.03.2023	40	Robert
4	28.03.2023	28	Chisani
5	01.04.2023	26	Munkhuli
6	06.04.2023	42	Shalileni
7	12.04.2023	34	Chinkholwe
8	15.04.2023	39	Kawaza
9	21.04.2023	29	Katapila
10	28.04.,2023	30	Mapamba
11	04.05.2023	36	Kawaza

12	04.05.2023	27	Katapila
13	15.05.2023	15	Chinthunzi
14	27.05.2023	38	Mazamba
15	05.06.2023	24	Chaponda
16	12.06.2023	10	Chula
17	17.06.2023	40	Malanda
18	15.07.2023	18	Chikweli
19	21.07.2023	30	Sungani
20	30.07.2023	43	Kasinga
21	05.08.2023	21	Watimba
22	09.08.2023	30	Chibale
23	12.08.2023	15	Mekelani
24	20.08.2023	20	Chikwelu
25	28.08.2023	50	Chisengu
26	04.09.2023	15	Kasinga
27	09.09.2023	20	Watimba
28	15.09.2023	15	Sungani
30	20.09.2023	40	Kamoto
31	26.09.2023	31	Chisulo
32	29.09.2023	23	Chisengu
33	04.10.2023	15	Kasinga
34	10.10.2023	34	Vinza
		Total Attendance: 935	
		Average Attendance: 28	

Tab. 2. Meeting attendance

Based on survey and meetings, which carried out stipulates that the stoves are in use and people are happy with them.

Challenges during the Project:

1. Lack of good Camera to produce the quality pictures
2. Lack of the Computer(laptop) for writing reports
3. Using charcoal for cooking while working hard to reduce deforestation caused by cooking in the community. This was because we were working in mobile. Therefore, we could not make a stove for ourselves and wait for 21 days for it to be used .
4. Lacking a first aid kit medicine for the team. Especially in the areas where hospitals are very far from us.
5. Using one pair of a work suit throughout the week.
6. Lack of bicycles for recently joined teammates

7. Lack of Camping Mattresses

Recommendations:

The project should continue to reduce the amount of firewood used as fuel for cooking. The other Chiefdoms should also benefit from this project as it is cheap and efficient.

If the project continues it is also highly recommended to look after the above challenge. Please let Grant know if they can include them in the next proposal.

Should also establish more eco stoves making instructions in order to produce more stoves.

Summary:

From 15th March to date 3200 stoves built and 34 community group meetings conducted. People are happy and willing to use Stoves as their cooking model. 3200 stoves were made within the budget of K106,909. We are expecting to make 400 more stoves by the end of October. This will give us the total number of 3600 stoves in both chiefdoms. This is my last report, but the team is willing to continue with the project and Grant is in support with it. The proposal will follow after this report.

Thank you for your valuable time!