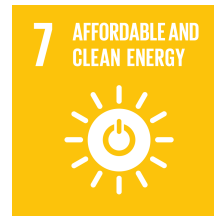


THE MTULI FOUNDATION



GREENLIGHT GREENPAPER

SPRING 2022



Created **3** guides on sustainable cooking fire alternatives to assist the Karonga community in their search for sustainable heating.

CREATED BY GREENLIGHT:

RYLEE RICHARDSON | BRYNNE FIORITA | LINDSAY
BRAND | TALA AL-THAHER | MALINA BAKER |
EMILY STABILITO
PROJECT PARTNER: MTULI FOUNDATION
ROBERT MHANGO

Visit GLSolutions.org to learn more & donate. Contact info@GLSolutions.org to get involved.



[@GreenLightSolutionsFoundation](https://www.linkedin.com/company/greenlightsolutionsfoundation)

[@GreenLightSolutions](https://www.instagram.com/greenlightsolutions)

[@GreenLightSolutionsFoundation](https://www.facebook.com/greenlightsolutionsfoundation)

[@_GLSolutions_](https://twitter.com/_GLSolutions_)

Challenges & Opportunities

The Mtuli Foundation reached out to GreenLight because the community was dealing with deforestation, pollution, and other health impacts as a product of wood-burning stoves. The Karonga community has used these stoves for many years, resulting in greenhouse gas emissions and smoke inhalation in women and children. This has led to other adverse health effects such as infections, respiratory diseases, and cancer. The community has also been battling deforestation. Since many of the stoves use wood for fuel, trees are being cut down and large amounts of time are being spent collecting firewood. This challenge created an opportunity for our team of Solutioneers at GreenLight as we were able to engage in a conversation with the Mtuli Foundation about sustainable cooking fire alternatives and what that could look like in the Karonga community. By the end of the semester we were able to conduct research on this topic and share it with Mtuli so that they could make the most appropriate decision for their community.

Recommended Solutions

In response to the Mtuli Foundation's challenge, our team conducted research on sustainable cooking fire alternatives. From our research we were able to settle on the three most feasible options for the community and create guides specific to these determined options. These three options included solar, biogas, and wood stove alternatives with improved efficiency, compared to the traditional stoves. After sharing these guides with the Mtuli Foundation, the community will be able to utilize the information they contain not only when deciding on the most realistic alternative, but also in training centers that allow community members to learn more about the stoves and how to use them. Our team would recommend that Mtuli use all of the information, even on stoves they do not use, to share ideas and brainstorm with the residents. Our Key Performance Indicators included evaluating **3** reliable cooking fire alternatives and formatting them into guides for the community. These goals allowed our team to provide the Mtuli Foundation with a variety of topics while ensuring that the quality of the guides were adequate.

Project Benefits

BENEFITS TO PROJECT PARTNER

The Mtuli Foundation works tirelessly to support everyone, from the youth of rural Malawi to the elders of the same area. Mtuli can improve lives by implementing the alternative cooking methods our team has shared with them. Over the course of this project, Greenlight Solutions has lessened the load that the community carries throughout daily life and their sustainable development projects.

After Solutioneers conducted research, the Mtuli foundation will have access to these resources and how they could be best implemented.

Benefits to Solutioneers

As Solutioneers, we had the ability to work closely with a real organization on a sustainable project. The real world skills and applications that we learned through working with our project partner at Mtuli Foundation are invaluable and can be used throughout our careers. This project also cultivated skills in cooperation, communication, critical thinking, and problem solving especially with our project partner being halfway across the world.

BENEFITS TO THE COMMUNITY

With our research on sustainable alternatives to cooking stoves in Malawi, we serve to benefit the health of the community on many fronts. Locally, our research will help reduce exposure to dangerous pollutants within the home, reduce deforestation, and encourage local shifts towards sustainable practices. Our hope with this project is that the shift towards sustainable cooking stoves in Karonga will one day inspire other communities in Malawi to take the same step.

Copyright © 2022 GreenLight Solutions. All Rights Reserved.