WHO WE ARE

Burn Design Lab is a diverse, collaborative team that includes both recently graduated and tenured engineers, field staff with lifelong experience in Africa, and volunteers bringing a wealth of expertise. Our knowledge of regional cookstove alternatives speeds the identification of design objectives needed for significant performance improvement over the status quo, and in-house lab testing provides performance data for quick validation of design changes. BDL is recognized by the Clean Cooking Alliance as a Regional Testing and Knowledge Center of cookstove testing and research.

WHAT WE’VE DONE

2022 BY-THE-NUMBERS

4 Countries: Ghana, Kenya, Uganda, Sierra Leone
8 Staff
10 Volunteers
2 Field Staff: Ghana
3325 Volunteer hours
186 Tests completed
26 Field Tests
282 Hours testing in the lab

LIFETIME IMPACT SINCE 2010

2.5+ MILLION Stoves
15+ MILLION Lives Impacted
6+ MILLION Tons of Wood Saved
12+ MILLION Tons of CO2 Reduced
1,000+ Jobs Created
$520+ MILLION Household Savings

WHERE WE’RE GOING

BY 2027...
25 MILLION Households impacted
1.5 GIGATONS CO2 Reduced
**2022 PROGRAM SERVICES**

**IMPROVED SHEA NUT ROASTER | GHANA**

- 6 Months of roaster operation
- 22 Thousand KGs of butter produced

10 full size pre-production roasters were built in Ghana and placed into operation at 6 different women's shea butter cooperatives. The new roaster will benefit 1000s of women in Ghana and West Africa, for whom making hand-crafted shea butter is their livelihood.

**UGANDA | ILF FACTORY IMPROVEMENT**

Project driven by Human-Centered Design
4 new tools and equipment installed and commissioned.
The improvements are aimed at improving product quality and tripling factory production capability to 15,000 stoves per month.

**WEST AFRICA STOVE DESIGN | GHANA**

250 Million people using wood for cooking in West Africa

BDL worked under contract from Burn Manufacturing on the testing and development of a modified Kuniokoa stove which will be better suited to the cultural and cooking conditions of West Africa.

**2022 UPDATES**

**NEW LAB COMPLETE!**

The new cookstove testing laboratory was completed on the mezzanine level over the new shop space that BDL now owns thanks to Tom, Melissa, and Lauren Bangasser. Major contributors to the new Lab were: Randy & Debbie Johnson, The Sitchin Foundation, Bruce Campbell, and Anne & Zoli Borbely. This allows us to conduct precise testing of prototypes for cookstoves, shea roasters, and institutional (i.e. school) stoves (more about that later!)

**JIKOKOA & KUNIOKOA UPDATES**

In 2022, BURN Manufacturing sold 1,454,088 combined units of the Jikokoa, Jikokoa XTRA, and Kuniokoa stoves, which were developed in partnership with BDL. Since 2013, these stoves have sold a combined total of 2,722,561 units! Thank you to our incredible donors who made this accomplishment possible!

**2022 FINANCIALS**

TOTAL INCOME - $430,775  TOTAL EXPENSES - $462,830
ACKNOWLEDGEMENTS

Supporters
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Clean Cooking Alliance New England Biolabs Foundation
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The Lemelson Foundation Powder Coating Research Group
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