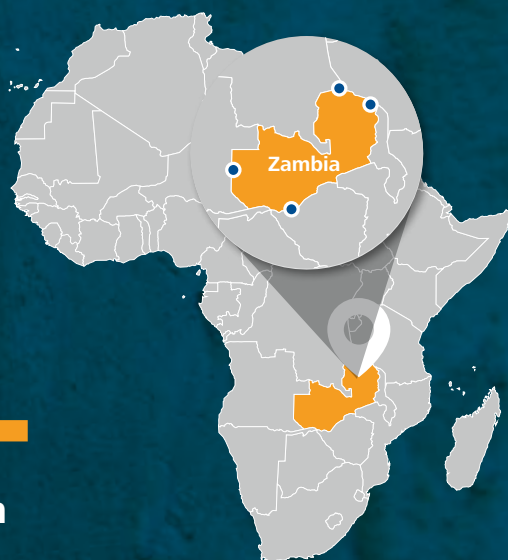




HEALTHY CLEAN COOKSTOVES ZAMBIA

Improving lives and reducing deforestation with
clean, efficient fuel stoves



By providing households with innovative cookstove technology, this project reduces the amount of non renewable biomass fuel required for cooking, decreasing the rate of woodfire clearing in surrounding forests. In addition, it also reduces smoke inside homes, improving respiratory and eye health for families.



The Context

Traditionally, the majority of Zambian families cook on an open fire, utilizing the “three rocks” method for heating pots to cook meals in the home. This method is inefficient and leads to the unsustainable use of nonrenewable biomass (wood fuel) in the process. In addition, cooking and heating with solid fuels on open fires or traditional stoves results in high levels of indoor air pollution, which can lead to respiratory and eye problems.

The Project

This project replaces “three rock” fires in the home with cleaner stoves that cut 66% of annual biomass usage. The stoves consist of a durable metal alloy liner, enclosed in brick with a galvanised cooking surface and a directed flame. As the majority of Zambians do not have access to the market for fuel-efficient cooking stoves, the project utilizes carbon finance to overcome this barrier to and make stoves available for poorer communities.

The Benefits

As the efficient stoves require considerably less fuel, greenhouse gases are mitigated by reducing the harvesting of non-renewable biomass when cooking. In addition, less time is spent collecting wood fuel for the family home thereby reducing the work burden on families and presenting alternative opportunities for economic development. The stoves produce less harmful smoke, and provide a safer method for burning fuel, helping to reduce injuries and health issues, especially for children, in the family home.

Less carbon dioxide, carbon monoxide and particulates will be emitted by the fuel efficient stoves.



15,938
stoves

installed in communities throughout Zambia, improving the health and livelihood of families



66
%

reduction in annual usage of non-renewable biomass fuels



16,298
tCO₂e

reduced annually by reducing fuel-related emissions



4.1
tonnes

of biomass (mainly wood fuel) saved annually, decreasing the pressure on surrounding forests

For more information on the UN Sustainable Development Goals, please visit: <http://www.un.org/sustainabledevelopment/sustainable-development-goals/>

Official name: Fuel Efficient Stoves in Zambia CPA 1 | **UNFCCC/markit/VCS link:** http://www.vcsprojectdatabase.org/#/project_details/1251 | **UNFCCC/markit/VCS ID:** 1251