

Darfur Cookstove Project

Sudan



Project Summary

Our award-winning cookstove project is the first registered carbon credit project in Sudan and the first to be developed in a conflict zone.

It was developed to improve household health by replacing traditional cooking methods – burning wood and charcoal inside the home – with low smoke LPG stoves.

90% of households in Sudan use biomass for their stoves and for every 10 trees cut down, only 1.5 are regrown. In addition to this, burning wood releases large amounts of particulates, carbon monoxide and other pollutants. So the project helps to reduce both deforestation and the risks to human health caused by the burning of biomass.



Key impacts for local communities

- Almost 100% of families using the new cookstoves delivered by the project state that indoor air quality has greatly improved;
- Each stove installed in a household in Darfur saves 4.5 tCO₂e – equivalent to one passenger flying 3 times between London and New York;
- The Global Alliance for Clean Cookstoves states that cooking with efficient low smoke LPG reduces most key pollutants by over 95% and reduces energy consumption by 50-70%;
- 100% of households have reported decreases in energy expenditure;
- 26 % of women are starting new income generating activities, with a further 8% expanding existing activities with the time saved no longer having to collect wood;
- 58% of women said they had more time to spend with their children;
- 48% of women surveyed said their husbands have even showed more interest in the cooking with the new stoves.





Aligning with the SDGs

- **SDG 3: Ensure healthy lives and promote well-being for all at all ages.**

The World Health Organization (WHO) estimates that smoke inhalation from traditional wood burning stoves is equal to smoking 2 packs of cigarettes a day. Beneficiaries enjoy better indoor air quality, which reduces respiratory diseases.

- **SDG 5: Achieve gender equality and empower women and girls.**

Not only does the project reduce the amount of wood collection time for women and improve their health, it also provides opportunities for female employment e.g. undertaking the project surveys.

- **SDG 7: Ensure access to affordable, reliable, sustainable and modern energy for all.**

The stoves are made affordable to families via micro-finance loans, managed by the women-led Development Association Network. The stoves are also more efficient and affordable to run.



The Sustainable Development Goals (SDGs) were established by United Nations as a universal call to action to end poverty, protect the planet and ensure all people enjoy peace and prosperity. There are 17 goals in total and this project is aligned to the following SDG goals.