



Efficient cooking stoves, Cote D'Ivoire

Fuel use from increasingly scarce firewood is a growing problem in Cote D'Ivoire. In order to address this problem, an emission reduction project has been set up to distribute modern, fuel-efficient cooking stoves to private households at reduced prices.

Location



The programme targets multiple locations countrywide, including 200 sales points and over 300 supermarkets throughout the country.

The process started in urban areas of high population density and charcoal consumption, then spanned to wider urban and rural areas. These areas still host around half of the population of Cote d'Ivoire, many of whom are forced to use wood for fuel due to lack of alternatives.

Project



In Ivory Coast, similarly to most Sub-Saharan African countries, the consumption of biomass energy represents over 74% of the domestic energy consumed by its 20 millions inhabitants. Whilst wood is used in rural areas, charcoal is common in urban areas because it is light, easy to transport, and quick to heat.

Charcoal is one of the main drivers of deforestation and greenhouse gas emissions in Côte d'Ivoire. Due in part to logging for charcoal production, forested area of the country has fallen from around 16 million hectares to 10 million hectares since 1960.

This project replaces coal pots with an efficient insulated stove, known as the Soutra Fourneau. Users of the stove are pleased with the effects: they observe that the stove keeps going for longer periods, cooks food more quickly, is less smoky and uses less fuel.

Thanks to its design, Soutra Fourneau reduces charcoal consumption by up to 60%. The current production capacity is 2,500 stoves per week and corresponds to an annual CO₂ -reduction of over 47,000 tons.



Project achievements



Socio-economic impact:

- The Soutra Fourneau coalpots are less smoky, reducing emissions of hazardous air pollutants and improving the health of the cooks, typically mothers and children.
- Reducing fuel costs for families and freeing up money for other uses, the project improves livelihoods of the poor.
- The project creates employment and builds capacity throughout the supply chain, i.e. in manufacturing, distribution, retailing, quality control and project management. The liners are made by a small group of accredited ceramicists who have received specialist training. The metal claddings are made by a further group of accredited manufacturers.
- Cote D'Ivoire's technological self-reliance is improving thanks to specialist skills being developed and furthered in-country: The project partners in Cote D'Ivoire provide training and quality control services, and distribute the stoves through a wide network of retailers.
- SIFCA group invested in the project as part of its policy of sustainable development that includes the funding of 82 clinics and infirmaries, 25 ambulances and 113 primary and infant schools.

Environmental impact:

- Significant reduction of baseline deforestation levels saves forests and wildlife habitat, and improves the water storage capabilities of the soil.

Checklist Project 301 470



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