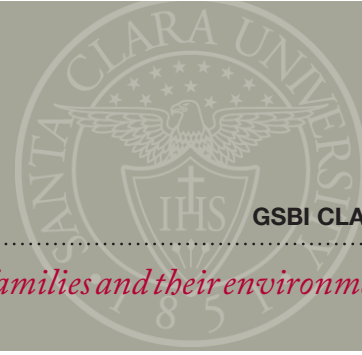




Trees, Water & People



GSBI CLASS OF 2011

Delivering efficient, affordable cooking technologies benefiting families and their environment

Description

Trees, Water & People has designed a cookstove for the charcoal dependent population of Haiti, that reduces fuel consumption by up to 40%. The design is similar to a popular improved cookstove in the local market, but makes use of insulation, properly-sized flue gaps and a smaller fuel bowl to deliver cooking heat more effectively.

Headquarters Fort Collins, CO, United States

Established 1998

Impact Areas Haiti, Central America, Uganda, United States

Type Non-profit/NGO

Sectors Clean Tech & Energy, Environment

Staff Size 40 and 11 volunteers (TWP worldwide)

Annual Budget \$ 120,000/year in Haiti (\$1.4M worldwide)

Major Funders Donations, grants

Key Awards

2005 Ashden Award for Sustainable Development

2008 Rio Tinto Prize for Sustainability (\$1M)

2009 UNEP Sasakawa Prize for the Environment (\$100K)

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Trees, Water & People

Zamni Pye Bwa Charcoal Cookstove Project

Target Market

70% of Haiti's urban population is dependent on charcoal to cook their food, costing families 40-60% of their annual household income. The Port-Au-Prince metropolitan area alone represents 425,000 charcoal-using households and will consume over 450,000 metric tons of charcoal in 2011. We estimate that 20% of this population is using a slightly improved cookstove, while the other 80% are using tremendously inefficient traditional stoves.

Value Proposition

TWP delivers immediate triple-bottom line returns to the poorest communities in the Western Hemisphere by leveraging its 13 years of experience toward the development of a charcoal stove that reduces household charcoal consumption by up to 40%. This allows families to repurpose 20% of their annual household income from fuel expenses toward other productive activities. The Zamni Pye Bwa cookstove project will keep 100,000 trees in the ground over the next five years, which is critical to a country with only 4% of its forest cover remaining. By designing and manufacturing locally, TWP is creating jobs and ensuring that the solutions we put in place meet local needs.



"Trees, Water & People has built 46,000 fuel-efficient cookstoves in 13 years, reducing firewood and charcoal use by hundreds of thousands of tons in Central America in the Caribbean."

SEBASTIAN AFRICANO, DEPUTY INTERNATIONAL DIRECTOR

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Milestones Achieved

2005 USEPA grant (\$175k) to scale up cookstove programs in Honduras and Nicaragua

2009 Factories established in Honduras, Nicaragua

2010 40,000 cookstoves manufactured; 4 million trees planted in 5 countries

2011 Energy & Climate partnership of the Americas (\$1.2M grant)

Growth Plan

2012 Launch of ZPB project, Haiti

2012 Establish of cookstove programs in Uganda and Madagascar

2012 Launch reforestation programs in Haiti, with 100k trees planted per year

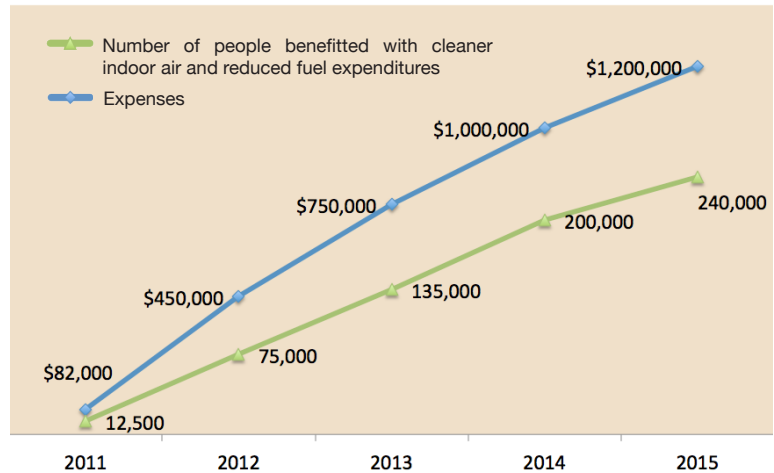
2015 Reach \$2M budget for TWP

2016 Prevent 400,000 tons of CO₂ emissions

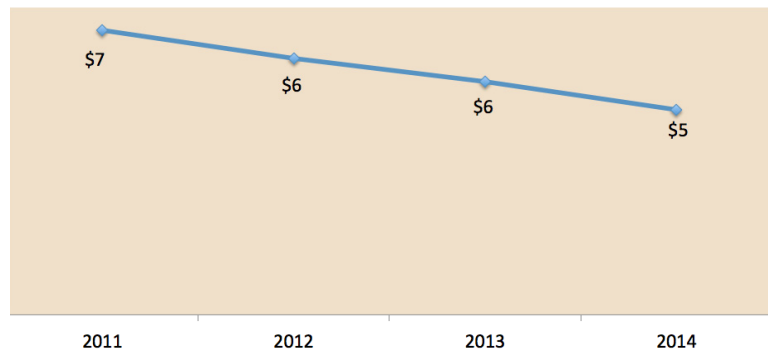
Impact to Date

- 14,000 people benefitted with clean cook stoves in Haiti
- 230,000 people benefitted with cleaner indoor air and reduced fuel expenditures by Trees, Water, and People worldwide
- 4 million trees planted
- Over 250,000 tons of CO₂ emissions avoided

Expenses vs. Outcomes



Cost per Successful Outcome



"I went from 2 marmits (paint cans) of charcoal per day to one: the stove is saving me money and cooks my food both quickly and well."

CONCEPCION DE HERNANDEZ-JUSTA, COOK STOVE BENEFICIARY

Investment Required

\$450,000 grants over the next 3 years