



Mission Statement:

StoveTeam solves medical and environmental problems by helping local entrepreneurs start factories to promote the use of safe, affordable, fuel-efficient stoves in the developing world.

Why stoves?

Worldwide, cooking is an essential part of one's day. However, in many parts of the world, cooking kills.

More than three billion people in the world cook over dangerous open fires or inefficient stoves. Many women spend most of their day indoors near smoldering fires or walking to collect heavy loads of firewood. Inhalation of harmful particles emitted from these open fires is the cause of an estimated four million deaths per year and is the leading cause of death in children under five.

MEDICAL PROBLEMS OF OPEN-FIRE COOKING

- Pneumonia, chronic obstructive pulmonary disease, respiratory infections, emphysema, cardiovascular disease, lung cancer and chronic bronchial illnesses.
- Burns from falling into open cooking fires.
- Cataracts and chronic eye and skin irritation from constant exposure to smoke.
- Hernias from carrying large amounts of wood.
- Low birth weights.

ENVIRONMENTAL PROBLEMS DUE TO THIS TYPE OF COOKING

- Rapid deforestation.
- Erosion, mudslides and water pollution.
- Climate change due to emissions of black carbon (BC).
- Pollution from the emissions of particulate matter (PM).





In the developing world, demand for firewood is one of the most commonly cited causes of deforestation.

StoveTeam Methodology

StoveTeam helps raise seed capital from grants and donations to start stove factories in emerging countries, providing advice and assistance in all phases of factory startup and operation. These factories use local labor and materials to produce safe, fuel-efficient cookstoves and are self-sustaining after the initial investment. The cookstoves are affordable, use 50% less fuel-wood, and emit 86% less particulate matter, thereby reducing deforestation and harmful pollution.

Lives are changed by our work

Toxic emissions cause a variety of serious health problems, making smoke exposure one of the top four health risks in developing nations.

The installation of efficient, clean-burning stoves improves the quality of air in homes where women and children spend much of their day. The Ecocina stove produced by StoveTeam sponsored factories is portable and can be moved outdoors when weather permits. With the reduction in time collecting fuel-wood, men and women have more time for income-generating activities; and children can spend more time in school. Some families have earned additional income by taking the stove to a central plaza or roadside to sell food.



The Ecocina

POT SKIRT

Adjustable metal skirt fits a variety of pots and pans & forces hot air around the pot for maximum cooking efficiency.

REMOVABLE "PLANCHA"

For cooking meat or tortillas.

POT SUPPORTS

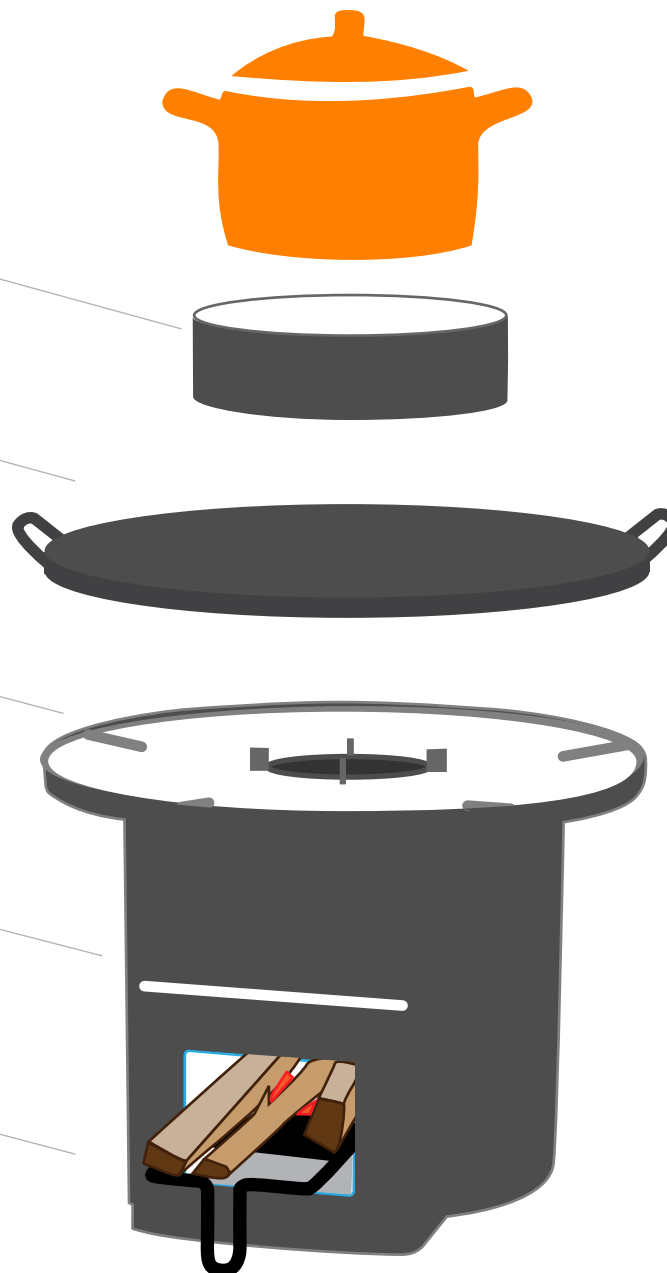
Elevate the cooking surface above the stove top and allows cooking with any sized pot or griddle ("plancha").

INSULATED CEMENT BODY

Internal chimney of low-fired tile and insulating pumice keeps the stove exterior cool to the touch.

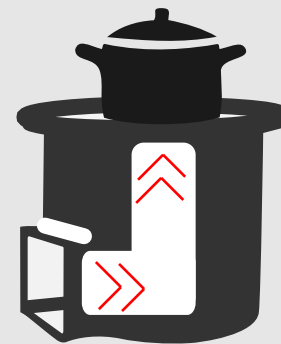
WOOD SUPPORT (PORTALEÑA)

Raises the wood off the bottom of the stove and allows sufficient air to enter, increasing burning efficiency.



REDUCED SMOKE

Efficient airflow allows wood to burn completely, resulting in a virtually smoke-free environment.



"ROCKET ELBOW" DESIGN

With an air-intake opening the same size as the exit, oxygen entering through the bottom moves efficiently through the internal chimney, driving heat directly to the cooking pot.

Factories

SAN MIGUEL DE ALLENDE, MEXICO

The Ecocina Stoves factory in San Miguel de Allende began producing stoves in August 2011. It has produced and sold over 1,640 stoves and helped with the establishment of a new factory in Morelia. Due to interest by the Mexican government, the factory is exploring producing an additional stove with a larger plancha and an external stove. This new Ecoplancha III stove was designed by the EcoComal factory owner in Guatemala and has received great reviews from the local population.

LEON, NICARAGUA

The factory in Leon, Nicaragua is no longer producing Ecocina stoves. StoveTeam is exploring new factory options in Nicaragua.

COPÁN RUINAS, HONDURAS

The E'Copan factory in Copán Ruinas, Honduras began producing stoves in June 2010. It has now produced and sold 5,457 stoves. The factory is working with researchers from Colorado State University who, with funding from the American Heart Association, are studying the impact of smoke on the human heart. This study is due to be published within the next two years.

A team of University of Oregon students traveled to Copán Ruinas in March 2013 to assist with factory infrastructure.

OAXACA, MEXICO

The factory in Oaxaca, Mexico is currently in development, and the factory should start production in November 2014.



MORELIA, MEXICO

The factory in Morelia, Mexico opened in October 2013 with grants from Livermore Valley and Morelia University Rotary Clubs. San Miguel de Allende factory owners, Eric and Deyanira Ramirez, spent a week at the new factory site teaching the staff how best to manufacture Ecocina stoves. A volunteer from the U.S. with extensive experience with USAID is living near the new factory site and offered to help with any concerns. The local Rotary Club is taking the lead on stove sales and has been pursuing collaborations with SEDESOL and other Mexican government officials

NAHULINGO, EL SALVADOR

Inversiones Falcón, the factory in Nahulingo, El Salvador was the first factory established by StoveTeam. Since 2007, it has produced 20,071 stoves and continues to experience high demand for various stove types. Factory owner Gustavo Peña has experimented with additional adaptations of the Ecocina and is designing new stoves with external chimneys and larger planchas.

Inversiones Falcón was filmed for a PBS documentary produced by the Under-Told Stories Project and shown on the PBS NewsHour in early 2014.



SAN ANTONIO AGUAS CALIENTES, GUATEMALA

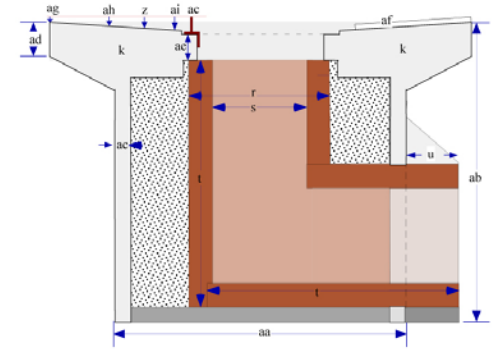
The EcoComal stove factory in Guatemala has expanded significantly and continues to produce the Ecocina and three other types of fuel-efficient stoves. The Ecocina is the least expensive and only portable stove in its production. The factory has now produced and sold 14,882 stoves.

In November 2013, a team of 30 volunteers helped with kitchen performance testing for carbon credits and expand the factory. The factory was featured at the Central American Rotary Project Fair in January 2014, and a team of University of Oregon students arrived in June 2014 to help with further building projects.

The free elementary school started with proceeds from the EcoComal factory now has 80 students and eight new NextStep recycled computers with educational software donated by a local Guatemalan Ashoka Fellow.

CHOLUTECA, HONDURAS

The grant for Ecocina stoves produced and sold by INCATEC technical school in Choluteca, Honduras has been completed. The school produced and sold approximately 2,000 stoves.





A win-win solution: StoveTeam-supported stove factories create jobs and stoves to improve the local economy and environment.

2013 Results

- A new factory was established near Morelia, Mexico.
- StoveTeam International entered into a contract with CEMEX, who will support the establishment of new stove factories, and give current factory owners a price reduction on stove building materials.
- All eligible factories are implementing carbon credit programs with Microsol, a French carbon developer. These factories will be able to use carbon credits to reduce the price of stoves and provide ongoing maintenance and repair.
- A new consultant in Mexico was hired to assist factory owners with development opportunities.
- StoveTeam developed a loan program with Kiva to help factories establish regional distribution centers.
- A grant from Dining for Women was awarded to StoveTeam to pilot a marketing and sales program in Oaxaca, Mexico. The grant monies will be used to employ indigenous women to promote and sell stoves in rural communities.
- Thirty volunteers traveled with StoveTeam staff to Guatemala to field-test stoves and help with factory infrastructure.
- A Technical Team was established to assist with and review new stove designs.
- The University of Oregon collaborated with StoveTeam to provide a service-learning trip to Honduras. Students who participated helped with factory expansion and stove testing.
- StoveTeam board members and staff traveled to Oaxaca and Chiapas, Mexico where they met with Rotary Clubs and Madre Tierra, a local nonprofit, to plan new factories.
- StoveTeam team expanded the Board of Directors by three: an engineer, an attorney, and an active construction volunteer.
- With support from the EPA/Winrock International and Aprovecho Research Center, StoveTeam sponsored factory owners were trained on how to use the Controlled Cooking Test to evaluate stove efficiency.



TOTAL STOVES PRODUCED THROUGH 2013

Copán Ruinas, Honduras (est. 2010)	5,457
León, Nicaragua (est. 2010)	383
Nahulingo, El Salvador (est. 2007)	20,071
San Antonio Aguas Calientes, Guatemala (est. 2009)	14,882
Choluteca, Honduras (est. 2009)	2,000
San Miguel de Allende, Mexico (est. 2011)	1,640
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Total	44,433

NUMBER OF FAMILIES DIRECTLY IMPACTED BY STOVETEAM

Total stove production to date: 44,433.

Each stove is sold to a single family, and average family size shown by StoveTeam’s field testing data is 7.5. The cookstoves produced and sold by StoveTeam-sponsored factories have impacted 333,248 individuals.

EMPLOYMENT

New employment was provided to at least 45 individuals in the current stove factories, and it is assumed that surrounding businesses have also been impacted.





StoveTeam trips create memories that last a lifetime.

HOW FUNDING HAS INFLUENCED OPERATIONS

Having adequate funding has permitted StoveTeam International to:

- Develop a carbon credit program with Microsol to support current factories in reducing stove prices.
- Provide training and professional development opportunities for current factory owners.
- Develop a loan program through Kiva to help current factories develop regional distribution centers.
- Participate in international conferences and meetings leading to strategic partnerships with CEMEX, Microsol, Global Alliance for Clean Cookstoves, the Environmental Protection Agency, and PBS NewsHour.
- Hire a consultant to help increase current factories' sales and help develop new factory projects.
- Respond to requests for new factories and help community leaders, organizations, and agencies evaluate whether a stove factory would be useful in their areas.
- Aid in determining the location of developing factories, evaluation of the costs and availability of materials, and the required training needed.

CURRENT GRANT AND FOUNDATION FUNDING

StoveTeam International received grants from the Vibrant Village Foundation, Dining for Women, The Rex Foundation, and The Sanford Foundation. StoveTeam received the majority of its support from private donors and more than 75 Rotary Clubs.

Individual Rotary Districts and The Rotary Foundation provided matching funding for all of the Central American and Mexican factories. Local representatives of Children International, Peace Corps, Habitat for Humanity, World Vision, Rotary and other non-profit organizations in each country assisted with stove sales and distribution.



AWARDS AND RECOGNITION

In 2013, Founder and President Nancy Hughes received recognition both as a White House Rotary Champion of Change and as a CNN Hero. Nancy has presented programs to numerous Rotary Clubs, Engineers in Technical and Humanitarian Opportunities of Service (ETHOS), the University of Oregon, and other organizations. She is a regular participant at the Global Alliance for Clean Cookstoves international meetings and a member of the American National Standards Institute Technical Advisory Group of the International Service Organization.

In 2014, Nancy will be featured in a book by Marlo Thomas.





Ecocina stoves are safe to the touch and virtually smokeless.

Board of Directors

NANCY HUGHES – PRESIDENT & FOUNDER

Nancy directs the work of StoveTeam and is the founder and the face of the organization.

She began StoveTeam after working with a medical team and observing the results of burns and respiratory diseases caused by cooking over open fires inside unventilated homes.

Nancy is a graduate of Whitman College, an active member of Rotary and has been a tireless volunteer with many organizations. She is an inspiring speaker and travels extensively for StoveTeam International.

GERALD REICHER – VICE PRESIDENT

Gerry assists factory owners by providing appropriate business tools. On the first team he assisted with developing the concept of creating sustainable businesses rather than simply distributing stoves. Prior to his volunteer work with StoveTeam International he owned and operated a software business and was on the faculty of The University of Oregon where he taught and did research in Cognitive Psychology. He has traveled many times to Latin America.

DON STEELY

Don assists with stove design and the physical development of new factories. He advises factory owners about the purchase of appropriate tools and efficient factory set-up. He has built his own homes and is the “hands-on” arm of StoveTeam. Outside of StoveTeam Don is a Rotarian and works as an educational curriculum designer and program evaluator.

GAIL NORRIS

Gail assists in Central America with volunteer teams where she is an inspiring leader. Outside of StoveTeam, Gail keeps busy as the Volunteer Coordinator for the Oregon Bach Festival and a substitute teacher.





We work for a healthy future — theirs and ours.

SCOTT WILBER

Scott is an active Eugene Southtowne Rotarian and works as a professional C.P.A. Scott takes an active role assisting with StoveTeam financial accounting.

MARGA LARSON

Marga is an active member of the Eugene Downtown Rotary Club and works as a professional C.P.A. She has visited the factory in El Salvador and assists StoveTeam with the development of accounting models for stove factories, as well as budgeting and financial oversight.

JAY LAMB

Jay is a Senior Vice President at MODA Health and serves on their Board of Directors. A former dentist, Jay continues to have an active dental, is an active volunteer dentist, and is a Fellow in the International College of Dentists, as well as the American College of Dentists. He joined the board of StoveTeam International in 2012 and assists with strategic planning and financial oversight.

SUSIE HANNER

Susie is an author of reading programs and an active Rotarian. She has successfully written and edited many of the Rotary Matching Grants received by StoveTeam.

Staff

ELLY GROGAN

Elly is responsible for the daily operations of StoveTeam's U.S. office, including factory development, volunteer coordination, fundraising, and promotion. She is an active Rotarian and a graduate of University of Oregon with degrees in Spanish and International Studies.

VOLUNTEER STAFF

18 Over 200 volunteers contribute time and effort to StoveTeam projects.





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 TEAM
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