



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?

Globally, nearly 3 billion people are using dangerous, smoky open fires or inefficient cooking methods to prepare meals for their families. Women spend large parts of their day indoors over smoldering fires. Inhalation of harmful particles emitted from these fires is the cause of an estimated 4 million deaths per year.

MEDICAL PROBLEMS OF OPEN-FIRE COOKING

- Pneumonia, chronic obstructive pulmonary disease, upper respiratory infections, emphysema, cardiovascular disease, lung cancer and chronic bronchial illnesses. These issues are especially prevalent in women and children, who spend most of their time indoors at home.
- Burns from falling into open cooking fires.
- Chronic eye and skin irritation from constant exposure to smoke.
- Hernias from carrying large amounts of wood.

ENVIRONMENTAL PROBLEMS DUE TO THIS TYPE OF COOKING

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





Nancy Sanford Hughes signing the new carbon credit contract to provide more affordable stoves.

StoveTeam Methodology

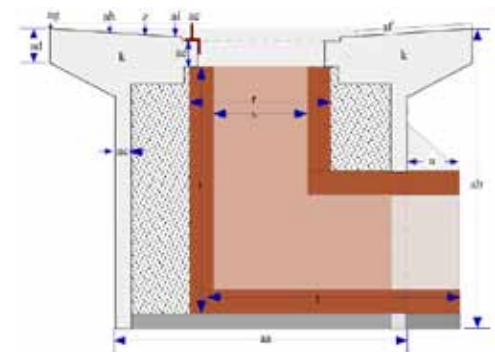
StoveTeam helps raise seed capital from grants and donations to help start sustainable factories in emerging countries. We provide advice and assistance in all phases of factory startup and operation. These factories produce safe, fuel-efficient stoves using local labor and materials. The stoves are affordable and offer the advantages of using much less fuel, reducing deforestation and pollution. As less time is spent collecting fuel, more time is available to pursue other enterprises.

Lives are changed by our work

In December 2012 The Lancet published a new study showing that more than four million people die from household indoor air pollution caused by cooking over open fires. This is twice the previous estimate made by the World Health Organization in 2009.

These toxic emissions cause a variety of serious health problems including low birth weights, pneumonia, emphysema, cardiovascular disease, chronic obstructive pulmonary disease, cataracts, and lung cancer—making smoke exposure one of the top four health risks in developing nations.

The installation of more efficient and cleaner-burning stoves improves the quality of air in homes where women and children spend much of their day. The Ecocina stove is portable and can be moved outdoors when weather permits or to the roadside or central plaza where woman earn extra income. A reduction in time needed for gathering fuel-wood results in more time for income-generating activities. Three women in Honduras have started a catering service preparing meals for over 400 individuals.



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

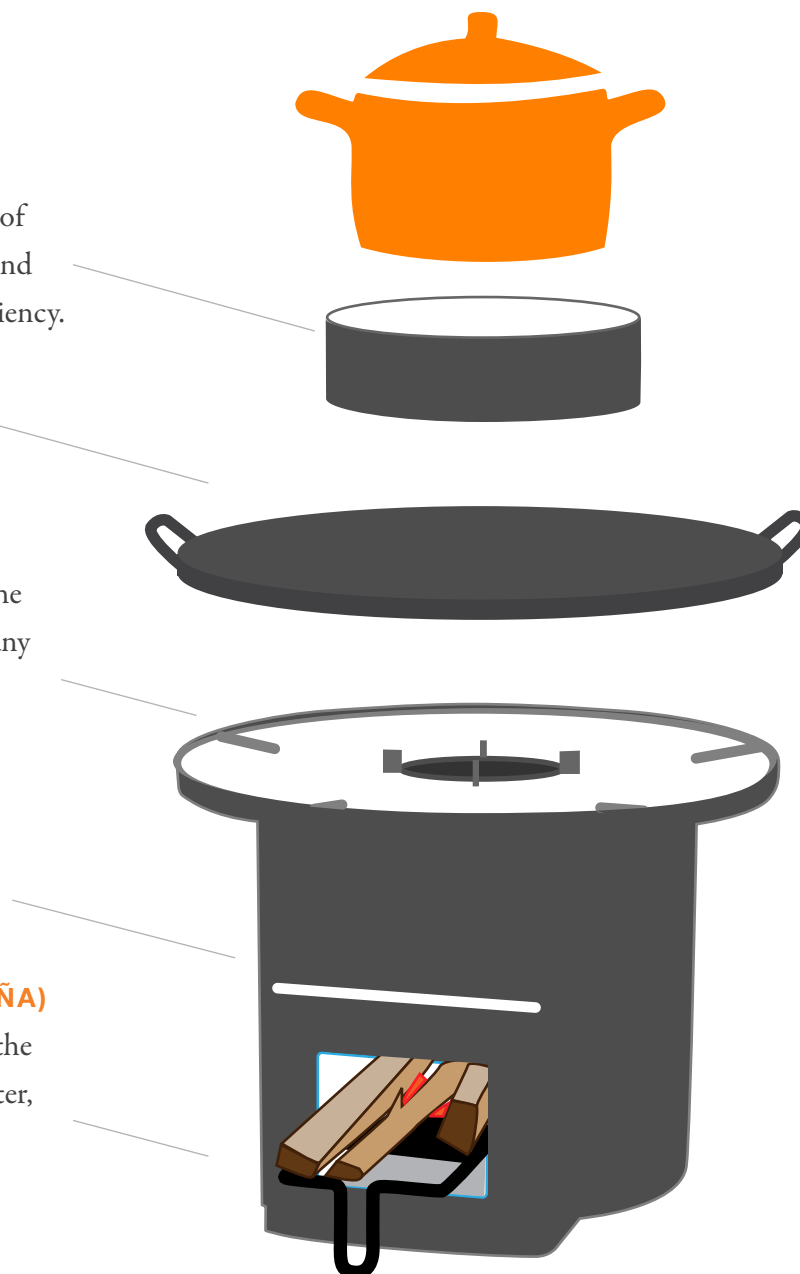
Elevate the cooking surface above the stove top and allows cooking with any sized pot or griddle ("plancha").

INSULATED CEMENT BODY

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

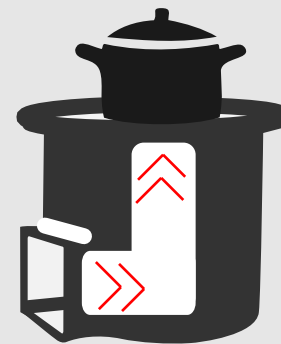
WOOD SUPPORT (PORTALEÑA)

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 factory in San Miguel de Allende began producing stoves in August 2011. It has produced and sold over 1,300 stoves and is in the process of establishing distribution centers throughout the state of Guanajuato. It is also exploring expansion into the neighboring state of Leon. The factory has five employees.

Teams of volunteers visited San Miguel in March and November of 2012.

COPÁN RUINAS, HONDURAS

The factory in Copán Ruinas, Honduras received grant approval in April 2010 and began producing stoves in June. It has now produced and sold 4,429 stoves.

It is experiencing high demand and plans to increase production in 2013. A team of StoveTeam volunteers traveled to Copán Ruinas in November 2011 and November and March of 2012 to conduct the first field-tests and help with factory improvements and stove production. Field-testing has shown a 50% reduction in fuel one year after stoves were introduced, and all stove recipients are now cooking on Ecocina stoves rather than over open fires.

LEON, NICARAGUA

The factory in León, Nicaragua is still producing various types of fuel-efficient stoves. It has now produced 383 Ecocinas along with other types of stoves.

NAHULINGO, EL SALVADOR

The factory in Nahulingo, El Salvador was the first factory established. Since 2007 it has produced 17,707 stoves, and it continues to experience high demand.

Factory owner, Gustavo Peña, has experimented with additional adaptations of the Ecocina including one using it as the base for a pizza oven.



SAN ANTONIO AGUAS CALIENTES, GUATEMALA

The EcoComal stove factory in Guatemala has expanded and continues to produce the Ecocina as well as two 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 9,682 stoves of various types.

StoveTeam members visited this factory in November 2012 and were pleased to see how the factory has expanded. StoveTeam is delighted to report that the factory donated a portion of each stove sale to establish a new elementary school for grades one through three. The school currently teaches 77 young children.

CHOLUTECA, HONDURAS

The grant for Ecocina stoves produced and sold by INCATEC technical school in Choluteca, Honduras in conjunction with tree-planting has been completed and the school has produced and sold approximately 1,700 stoves.





A key factor of developing a stove is making sure traditional cooking methods do not change — only the heat source.

2012 Results

- StoveTeam International signed a carbon contract with Microsol to allow individually sponsored StoveTeam factories to participate in receiving carbon credits thus reducing the price of Ecocina stoves.
- StoveTeam International added two new members to the Board of Directors and added the factory owners to the Brain Trust as they will assist with international operations.
- StoveTeam International made available more open-source documents for the establishment of factories to produce the Ecocina stove.
- StoveTeam International created a new website and instituted regular newsletters.
- StoveTeam International helped a variety of Rotary Clubs write matching grants for seed capital for new factories in Mexico.
- Volunteer teams traveled to factories to assist with the first field-testing of stoves. Volunteers offered technical assistance in engineering, design and business and helped with factory construction.
- StoveTeam International collaborated with the University of Oregon to establish an “Alternative Spring Break” program in Copan Ruinas, Honduras for undergraduate students who helped with factory construction and stove testing.
- The newly hired StoveTeam Administrator, and two members of the StoveTeam Board travelled to Honduras, Guatemala and Mexico to meet with factory owners.
- Nancy Hughes, Founder of StoveTeam International met with CEMEX to begin a collaboration to allow offer a reduction in price for building materials.



TOTAL STOVES PRODUCED IN 2012

Copán Ruinas, Honduras (est. 2010)	4,429
León, Nicaragua (est. 2010)	383
Nahulingo, El Salvador (est. 2007)	17,707
San Antonio Aguas Calientes, Guatemala (est. 2009)	9,682
Choluteca, Honduras (est. 2009)	~1,700
San Miguel de Allende, Mexico (est. 2011)	1,334
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Total	35,235

NUMBER OF FAMILIES DIRECTLY IMPACTED BY STOVETEAM

Total stove production to date is 35,235. Each stove is sold to a single family, and 2012 Field-testing results done in San Jose de las Lagrimas, a town on the border of Honduras and Guatemala showed an average family size of 7.5 individuals. Using this data, Ecocina stoves have impacted the lives of more than 254,000 individuals.

EMPLOYMENT

New employment was provided to an average of nine individuals in each of six factories.





StoveTeam trips create lifetime memories.

AREAS OF FOCUS BETWEEN 2010 AND 2012

- Complications with changing requirements for Rotary Matching Grants resulted in a slow start for two of the factories. StoveTeam has been working with Rotary on the Club, District, and International levels to address these complications and, despite delays, StoveTeam has been successful at obtaining Rotary funding.
- StoveTeam improved promotional brochures in Spanish and English thus further encouraging factory owners to improve marketing strategies and partner with existing non-profit organizations in promotion and distribution of materials.
- StoveTeam has successfully signed an agreement with Microsol, a carbon development company, to involve four of the most successful stove factories in carbon credit financing.

HOW FUNDING HAS INFLUENCED OPERATIONS

Having adequate funding has permitted StoveTeam International to:

- Help community leaders, organizations, and agencies evaluate whether a stove factory would be useful in their area.
- Aid in determining the site and setup of a factory, evaluate material availability, understand the market and evaluate costs
- Provide experienced factory owners to help with setup and operations
- Continue to support existing factory operations
- Hire an Administrator to handle increasing inquiries from throughout the world

The hiring of a new Administrator has allowed StoveTeam to increase promotion, research and development, and handle new requests for collaboration. Requests for new factories continue with many strong possibilities in Mexico.

With additional funding, a factory development specialist can be hired to travel to new locations and outreach specialists can be hired to promote stoves in remote areas of Central America and Mexico.



CURRENT GRANT AND FOUNDATION FUNDING

StoveTeam International received quality grants from the Milagro Foundation, The Rex Foundation, The Oregon Country Fair Foundation, Global Way Makers 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 International Foundation provided matching funding for all of the Central American and Mexican factories. Local representatives of The 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

Founder and President Nancy Hughes was awarded the Soroptimist Ruby Award and the Ken Goyer Humanitarian Service Award in 2012. In addition, Nancy has presented programs at numerous Rotary Clubs, Engineers in Technical and Humanitarian Opportunities of Service (ETHOS) in Kirkland, Washington, the University of Oregon Leadership Class, AARP, Civic Ventures, and the Opportunity Collaboration.

In 2011 Nancy was also the recipient of the prestigious International Purpose Prize and donated the entire prize amount to StoveTeam International to further its work. As a result of the prize, she was named a Cordes Fellow and received an invitation to the 2012 Opportunity Collaboration where she connected to many others who will be supporting the work of StoveTeam International in 2013.





The Ecocina stove consumes very little fuel and is 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 represents StoveTeam at conferences such as ETHOS, the Partnership for Clean Indoor Air (PCIA) Biennial Forum, and the Global Alliance for Clean Cookstoves.

She began StoveTeam after working with a medical team and observing the results of burns and upper respiratory diseases caused by cooking over open campfires 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. Prior to that Gerry was on the faculty of The University of Oregon where he taught and did research in Cognitive Psychology. He has traveled many times to Central America.

DON STEELY – TECHNICAL DIRECTOR

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. After traveling to El Salvador he started a second non-profit agency to bring donated medical and computer equipment into the country. He was a volunteer election observer in El Salvador in 2009. In private life he is a Rotarian and works as an educational curriculum designer and program evaluator.



GAIL NORRIS – VOLUNTEER COORDINATOR

Gail speaks fluent Spanish and assists in Central America with volunteer teams where she is an inspiring leader. In private life she is the Volunteer Coordinator for the Oregon Bach Festival and a substitute teacher.

SCOTT WILBER – CERTIFIED PUBLIC ACCOUNTANT

Scott is an active Rotarian and works in Eugene as a professional C.P.A. He has been unable to travel to Central America but takes an active role assisting with StoveTeam accounting.

MARGA LARSON – FINANCIAL ADVISOR

Marga is an active member of the Eugene Downtown Rotary Club and works as a professional C.P.A. She visited the factory in El Salvador and assisted with the development of the accounting model for stove factories.

SARAH ROGERS-TREASURER

Sarah Rogers joined Stove Team in 2012. She is the current Treasurer and assists Stove Team with the business side of operations. Sarah has worked for Pacific Continental Bank for the past fourteen years and currently holds the title of Vice President/Treasury Manager.

JAY LAMB-DIRECTOR

Jay is an active Eugene Southtowne Rotarian and Vice President of ODS Insurance Company. He joined the board in 2012 and assists with strategic planning and financial oversight.

SUSIE HANNER – DIRECTOR

Susie is a retired author of reading programs and an active Rotarian. She has successfully written and edited all of the Rotary Matching Grants that have more than doubled the contributions received by StoveTeam International.





University of Oregon students spend their spring break volunteering with StoveTeam in Honduras.

Staff

ELLY GROGAN – ADMINISTRATOR

Elly handles the administrative side of StoveTeam's operations, including volunteer coordination, fundraising, and promotion. She has visited factories in Guatemala, Mexico, and Honduras. A graduate of University of Oregon with degrees in Spanish and International Studies, she has lived in Ecuador and Mexico.

VOLUNTEER STAFF.

Over 200 volunteers contribute time and effort to StoveTeam projects.



STOVE
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INTERNATIONAL

