



Issue 178 | Feb 13, 2015 | Focus on Barriers to Improved Cookstove Adoption

This issue focuses on recent studies and articles that highlight challenges to the dissemination and adoption of improved cookstoves (ICS). Many of the articles appeared in the January 2015 issue of *Boiling Point*, which focused on barriers to cookstoves.

ARTICLES

The Introduction and Uptake of Improved Cookstoves: Making Sense of Engineers, Social Scientists, Barriers, Markets and Participation. *Boiling Point*, Jan 2015. M Clifford. [Link](#)

Drawing on the authors' previous experience, literature review, and preliminary fieldwork, this article discusses some of the existing challenges faced when investigating ICS adoption and some of the current barriers that interfere with ICS introduction and uptake in East and Southern Africa.

Adoption of Cleaner Cookstoves. *Boiling Point*, Jan 2015. D Palit. [Link](#)

This article highlights the key barriers to adoption of ICS, sharing experiences from the field in South Asia and sub-Saharan Africa. The article suggests that stronger stakeholder partnerships, knowledge sharing, and satisfaction of user requirements through appropriate designs and diversified financing options will be required for a rapid growth of supply and demand of ICS.

New Modern Energy Consumers: Challenges for Efficient Cooking Fuels in the Greater Mekong Subregion. *Boiling Point*, Jan 2015. J Tomei. [Link](#)

Drawing on the results of a household survey and market analysis, this article discusses the use of biomass cookstoves and other cooking appliances in Cambodia, Laos, Myanmar, Thailand, and Vietnam. It highlights the experiences of Cambodia to draw attention to the challenges of encouraging the uptake of these cookstoves.

A Participative Approach: A Rural Community Develops, Tests and Adopts an Improved Cooking Stove in India. *Boiling Point*, Jan 2015. S Pampallona. [Link](#)

This article illustrates a successful uptake of ICS when the barrier of weak community participation is addressed from the outset. This step has been instrumental to determine true and widespread ownership of the concept of cleaner cooking.

Overcoming Barriers to Clean Cookstove and Fuel Adoption: Why and How Women

Must Be Integrated Throughout the Value Chain. *Boiling Point*, Jan 2015. C Hart. [Link](#)

This article posits that engaging women who are responsible for cooking in the design and dissemination of clean cookstoves and applying gender-informed business models will serve as a crucial foundation to the success of clean cooking solutions globally.

Household Awareness and Knowledge on Improved Cookstoves: A Case of Kilimanjaro Region, Tanzania. *International Journal of Physical and Social Sciences*, Jan 2015. A Fatihiya. [Link](#)

The article concludes that a low level of awareness and knowledge of efficient cooking behavior might slow down the process of making the decision to adopt ICS. Lack of knowledge may also contribute to improper technical use of ICS, which can lead to failure to maximize the recommended ICS efficiency and subsequently affect the perception of ICS.

Can Carbon Finance Transform Household Energy Markets? A Review of Cookstove Projects and Programs in Kenya. *Energy Research & Social Science*, Jan 2015. M Lambe. [Link](#)

Analysis shows that carbon finance can help build a vibrant market for improved cookstoves and help scale up cookstove projects by attracting international actors and technologies, establishing standards for monitoring stoves, and facilitating better follow-up and after-sales support. However, risks exist, such as potential mismatch between cheap and efficient technology and meeting user expectations and preferences.

REPORT

Building Business Cases to Reach Scale: A Study on Biomass Cookstove Business Models from Asia and Africa, Jan 2015. GIZ-HERA, StovePlus. [Link](#)

This study comes at an important time—market-led approaches are increasingly used for cookstove dissemination and market actors are searching for more effective and sustainable ways of financing their businesses and investing in stove value chains. Researchers bring recommendations from major market actors to the sector’s financiers, such as donors and private investors, and lessons learned to practitioners in the sector.

ANNOUNCEMENT

Household Air Pollution Implementation Research: Evaluating Sustained Adoption of Clean Cookstoves and Fuels RFA. Global Alliance for Clean Cookstoves (GACC). [Link](#)

The GACC and the USAID TRAction (Translating Research into Action) project have jointly released a Request for Applications (RFA) seeking proposals to study the motivators and barriers to sustained adoption of clean cooking technologies. Deadline for applications is March 20, 2015.

VIDEOS

How to Build Cleaner Burning Stoves, 2015. Aprovecho. [Video](#)

For the last two years the U.S. Department of Energy has funded Aprovecho to research and develop Tier 4 [stoves](#). This video introduces the design principles that resulted in cleaner burning stoves when measured by the Water Boiling Test.

Jiko Smart Improved Cookstoves, 2015. Global Village Energy Partnership. [Video](#)

The Global Village Energy Partnership recently engaged in the GACC-supported Spark Fund

program that aimed at improving the performance and quality of locally manufactured efficient cookstoves in Kenya. This video is about the manufacturing and distribution of Jiko Smart improved cookstoves.

NEWS

Global Alliance Study Yields Surprising Insights into the Effects of Wood Fuel Burning, GACC, Jan 2015. [Link](#)

GACC-funded research suggests that up to 17 percent of global wood fuel emissions could be reduced with successful deployment and utilization of 100 million cleaner, more efficient cookstoves. At US \$11 per ton of carbon dioxide equivalent, these reductions could be worth more than US \$1 billion per year.

Global Alliance Launches Consumer Segmentation Study in Guatemala, GACC, Jan 2015. [Link](#)

GACC has recently begun a consumer segmentation study of the market for clean cookstoves and fuels in Guatemala to provide a better understanding of the various kinds of consumers in the Guatemalan market and focus on identifying and prioritizing groups best poised for adoption of cleaner cookstoves and fuels.

EcoZoom Among Pilot Innovation Fund Winners, GACC, Jan 2015. [Link](#)

GACC announced the Pilot Innovation Fund winners, including EcoZoom, which will pilot several distribution models involving health workers supplying cookstoves and fuel pellets to households. This distribution method will be market tested in Kenya before scaling the model to other geographies if successful.

Envirofit Launches Econochar and Econofire Cookstoves in Kenya and Nigeria, Envirofit, Jan 2015. [Link](#)

To ensure stoves are accessible to both urban and rural populations Envirofit is working in partnership with Tower Brand Nigeria and Kaluworks Kenya to create greater access for dealers and small business owners nationwide. This partnership represents the first major scalable solution for both wood and charcoal users with the potential to impact people that cook over an open fire or use inefficient charcoal stoves.

WASHplus Weeklies highlight topics such as Urban WASH, Household Air Pollution, Innovation, Household Water Treatment and Storage, Hand Washing, Integration, and more. If you would like to feature your organization's materials in upcoming issues, please send them to Dan Campbell, WASHplus Knowledge Resources Specialist, at dacampbell@fhi360.org.



About WASHplus - WASHplus, a five-year project funded through USAID's Bureau for Global Health, supports healthy households and communities by creating and delivering interventions that lead to improvements in access, practice and health outcomes related to water, sanitation, hygiene (WASH) and household air pollution (HAP). WASHplus uses at-scale, targeted as well as integrated approaches to reduce diarrheal diseases and acute respiratory infections, the two top killers of children under five years of age globally. For information, visit www.washplus.org or email: contact@washplus.org.

