

Journal of Health Communication >

International Perspectives

Volume 20, 2015 - Issue sup1: Advancing Communication and Behavior Change Strategies for Cleaner Cooking

Free access

3,849 Views

31 CrossRef citations to date

21 Altmetric

Listen

ARTICLES

Agency-Based Empowerment Training Enhances Sales Capacity of Female Energy Entrepreneurs in Kenya

Anita V. Shankar, MaryAlice Onyura & Jessica Alderman

Pages 67-75 | Published online: 03 Apr 2015

Cite this article <https://doi.org/10.1080/10810730.2014.1002959>

Check for updates

Full Article

Figures & data

References

Citations

Metrics

Reprints

We Care About Your Privacy

We and our 878 partners store and access personal data, like browsing data or unique identifiers, on your device. Selecting I Accept enables tracking technologies to support the purposes shown under we and our partners process data to provide. Selecting Reject All or withdrawing your consent will disable them. If trackers are disabled, some content and ads you see may not be as relevant to you. You can resurface this menu to change your choices or withdraw consent at any time by clicking the Show Purposes link on the bottom of the webpage. Your choices will have effect within our Website. For more details, refer to our Privacy Policy. [Here](#)

We and our partners process data to provide:

Use precise geolocation data. Actively scan device

I Accept

Reject All

Show Purpose

95% CI [1.4, 5.4]), controlling for gender and rural/urban locale. Women outsold men by a margin of nearly 3 to 1 and were more likely to continue to pursue leads despite limited sales. Nonactive participants (those selling 1 improved cookstove or less) were a larger percentage of the control group (72%) than the intervention group (50%), and more men were nonactive participants (65% of men) compared with women (56% of women). These data show that women can serve as active improved cookstove entrepreneurs in both urban and rural settings and that targeted agency-based empowerment training can significantly increase women's capacity to engage effectively within the improved cookstove value chain.

There is growing evidence that women can play a critical role in the promotion and sales of improved cookstoves (ICSs) because of their roles and experience as primary cooks and household energy managers (Batliwalla & Reddy, 1996; Cecelski, [2000](#); Dutta, [2005](#); Köhlin, Sills, Pattanayak, & Wilfong, [2011](#); Smith & Dutta, [2011](#)). As key beneficiaries of ICSs, women can drive demand as consumers and users, and they can catalyze more consistent ICS use and adoption. Moreover, women can leverage their existing networks to promote the adoption of these new technologies and use their firsthand experiences for marketing the ICS.

Despite and sale are lagg women a individu entrepre choic up a challeng endeav women's al., [2014](#) Increasing marketing ([2008](#)). Efforts constraints on e of take powerful y to speak chosocial new to address ugman et al benefits



cents of every additional dollar of income in their families' education, health, and nutrition as compared with 30–40% for men. If efforts to engage women in the clean energy sector are to be successful and if we are to leverage this opportunity to more broadly empower women, it is critical to evaluate innovative behavioral strategies that enhance women's intrinsic capacities and facilitate effective navigation of the local economic environment.

In this study, we examine two primary questions related to women's engagement in the ICS value chain: (a) "What is the relative capacity of women to become ICS sales agents as compared with men in urban and rural (last mile) environments and (b) "What is the relative effect of an agency-based empowerment training on the business capacity of both male and female entrepreneurs?" We investigate these questions using a randomized trial design conducted in two locations in Kenya, an urban slum and a rural mountain region.

The Need to Include Women in the Energy Sector

An estimated 1.3 billion people live in poverty globally, 70% of whom are women (Dutta, [2005](#)). Since the 1970s, there have been significant efforts to foster women's engagement and include gender issues in development activities (Boserup, [1970](#); World

Bank, [20](#) energy for women l zed

(Celeski brou & Piana, [20](#) and often

produce ojects are at risk of n i, [2000](#);

Clancy gned their

with imple aggregated

data ava nd even fewer pr ank, [2010](#)).

Employr the 2012 World De steam, and

water ce is due in

large-scale, requiring professional expertise and considerable capital to move ahead—all aspects of business in which women traditionally face considerable challenges.

Historically, women's engagement in the local economy has focused in the informal sector, running micro- or small-scale businesses generally based in or close to the home. Women often face financial constraints in terms of accessing capital to start their business and the lack of collateral to secure loans. Male entrepreneurs face similar constraints, but are more likely to overcome these challenges (Kariuki & Balla, [2011](#)). Moreover, many women are faced with time poverty, which adds to their reluctance to participate in new business endeavors. There has been an expansion of country efforts to use women entrepreneurs to market and distributive clean cooking solutions through women's advocacy groups and women's networks to increase distribution and sales (Global Alliance for Clean Cookstoves, [2011](#)). Despite this, there are indications that more involvement of women in this sector is needed and interventions that address the financial and time constraints while optimizing context specific opportunities are vital.

The Need for Agency-Based Empowerment Training

Data from the recent Global Entrepreneurship Monitor, Women's Report (2013) noted that in every economy sampled, women had lower capability perceptions and greater fear of failure. Research has shown that women's entrepreneurial rates are lower than men's, and this is often attributed to a lack of confidence and access to capital. The International Women's Entrepreneurship Association (IWEA) has been instrumental in building a global network of women entrepreneurs and providing them with the support and resources they need to succeed. Their efforts have been instrumental in enhancing the economic status of women and promoting their leadership in the business world. There are many reasons why women's entrepreneurship is important, and it is essential that we continue to support and empower them. The effects of their entrepreneurship are far-reaching, and it is essential that we continue to support and empower them. There are many reasons why women's entrepreneurship is important, and it is essential that we continue to support and empower them. The effects of their entrepreneurship are far-reaching, and it is essential that we continue to support and empower them.



visions), forethought (visualizing the consequences of one's plans), self-reactiveness (modulation and regulation of action) and self-reflectiveness (reflecting on thoughts and actions). The agency-based training used in this study is anchored in these core properties, draws from basic tenets of positive psychology, and is aimed at increasing self-knowledge and developing actionable growth strategies. The training has been culturally and locally adapted for the Kenyan entrepreneurial context and conducted in the local language.

This work builds upon earlier research in Kenya that demonstrated that following an agency-based training, there was a substantial increase in women's capacity and willingness to identify and pursue economic opportunities and build strong relationship skills (Shankar, Onyura, Ojode, & Milliam, [2015](#)). This study examines the impacts that agency-based empowerment training can have to increase the motivation and capacity to develop a successful ICS business, for both men and women. It is hypothesized that if people are well-informed, motivated to act, and have the skills and confidence to take action, they are more likely to initiate and maintain behaviors that support a successful ICS business.

Method

A random
the impa
of newly
as there
entrepre
estimate
randomi
follo



This stud
nongove
through
the ultim
developi
urban cl

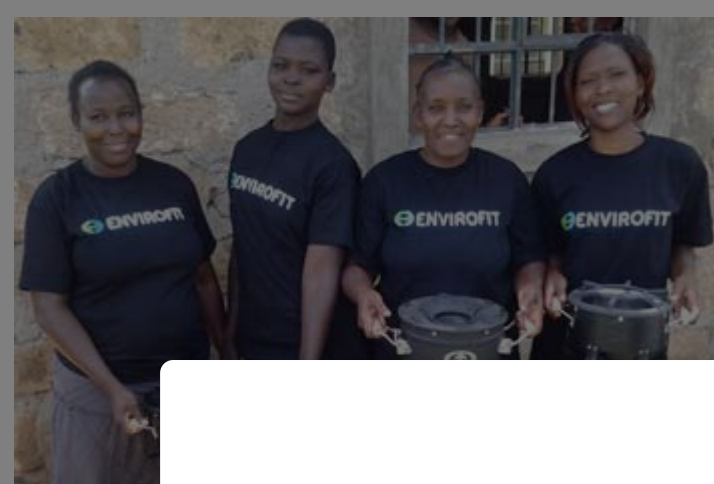
used to test
rial activity
was chosen
with the
s us to
for all
ch and

y-based
cts
ivities with
n their newly
one was an
nty in

source. Tigania East is located 5 hours from Nairobi and consists of a mixture of forested areas and clearings with smaller towns, villages, and rural farms.

ESVAK was supported by Envirofit International, an industry leader in cookstove development and manufacturing. By 2015, Envirofit will have sold 1 million stoves in more than 45 countries. Envirofit has a local production and distribution plant in Nairobi and they supplied ESVAK with three brands of ICS: an M-5000 wood burning rocket stove, a CH-2200 charcoal burning stove and a larger CH-5200 charcoal burning stove (see Figure 1). Envirofit assisted ESVAK with the recruitment and selection procedure for potential entrepreneurs and supported the training of implementation staff.

Fig. 1 The three stoves used in the study: an M-5000 wood burning rocket stove, a CH-2200 charcoal burning stove, and a larger CH-5200 charcoal burning stove. © Envirofit, 2014. Reproduced by permission of Envirofit. Permission to reuse must be obtained from the rightsholder.



Display full

This study was reviewed and approved by the Institutional Review Boards at the Johns Hopkins University and the University of Baltimore.



Recruitment and selection of participants was done by ESVAK for

review
committee
Public Health,

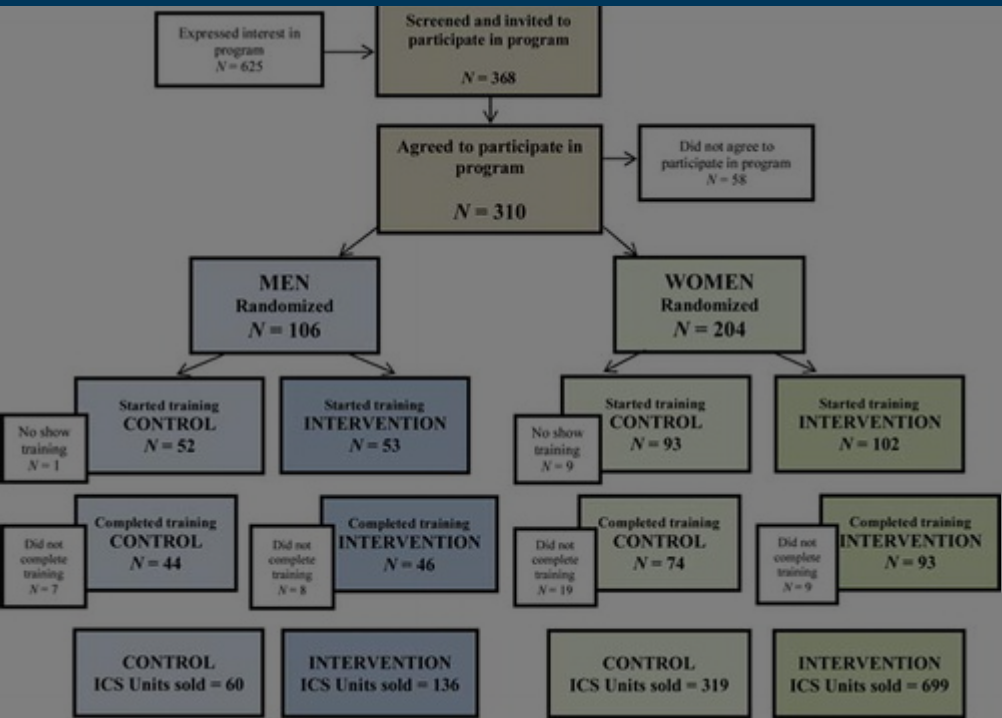
program
est in
fit and
selling, a

interpersonal interaction skills. Interested applicants were given a demonstration of the ICS and were told about the study. During the initial screening and selection, the field team found many challenges in identifying men who expressed interest and were willing to participate in the study. Despite earlier studies that indicate that men dominate the sales and marketing efforts in the cookstove industry, many men in the study communities reflected that ICS were associated with women's work and therefore did not believe it was a viable entrepreneurial activity for a man or that they did not have sufficient social networks to sell the ICS.

Among the individuals invited to participate, a total of 310 from both sites (106 men and 204 women) ultimately agreed to partake in the study and were randomly selected to obtain training in either the intervention (agency-based empowerment) or the control (entrepreneurial training). After randomization, individuals were placed into their respective trainings, the entrepreneurial training and the agency-based empowerment training, which ran in parallel and the participants were expected to attend each of the four days of training as well as a half day focused training on each of the Envirofit cookstove models. Both the entrepreneurial and the agency-based training consisted of mixed gender groups. Figure 2 displays the trial flowchart. We experienced some drop out after individuals were randomized, first at the beginning of the training and second through the noncompletion of the training. For women in the control group, 20% did not continue with the training whereas 9% of women in the intervention group chose not to continue. In the control group, 106 individuals were randomized at that time and 57 trained and 139 in the intervention group.

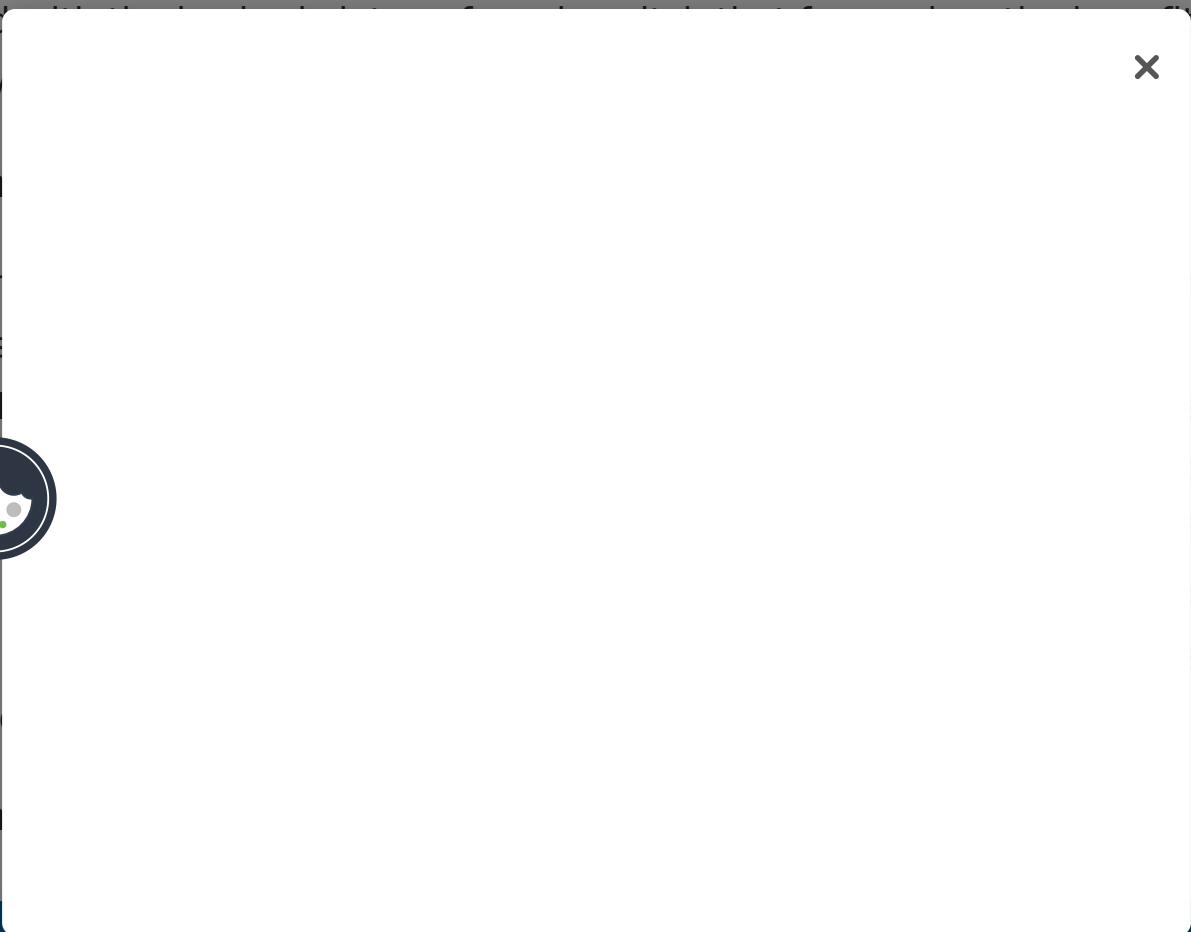
Fig. 2 Flowchart





Display full size

Once trained, individual entrepreneurs were allowed to identify and pursue any type of sales techniques and processes they felt were effective. For example, they could choose to sell door-to-door, visit self-help groups, or announce their wares at community or religious functions. There were no restrictions as to whom in the household they could approach or where (geographically) they could sell their product. During the half-day Envirofit training, which everyone received, individuals were provided



of fuel and time saved.

Content

The entry of new business programs. It included the business

followed



growth, keeping a record of sales, and understanding the customer's needs.

Content

The agency-based empowerment training builds upon a 4-day workshop developed by the Empowerment Institute, based in New York, where individuals participate in an introspective examination of key areas of their life drawing from basic tenets of positive psychology and incorporating exercises that address Bandura's core properties of individual agency. Each exercise is culturally adapted to the local context and crafted to reflect existing social norms and values by a local certified trainer. The training focuses on the following competencies: (a) exercises are relevant and meaningful to the individual; (b) the locus of control sits firmly within the individual rather than on external forces; (c) a simple process of cognitive reframing is adapted; and (d) participants self-reflect to assess progress toward their goals. Over the course of the workshop, through individual and interactive exercises, participants examine aspects of their emotions, relationships, their health/body, money, and work. In this training, exercises and examples were designed to support specific challenges faced in new entrepreneurial endeavors.

Follow-up Process

The cohort of 257 male and female entrepreneurs was assigned to intervention-specific follow-up groups. The groups generally met bimonthly in the urban site and every 3 weeks in the rural site along with a key staff member who would facilitate the meetings. These follow-up meetings were designed to help entrepreneurs build their

ICS business practices in ICS sales. M... 13, to July 31, 2014

Statistical Analysis

All analyses were undertaken using an... did not enter the statistics... tcomes... e business... curves and... estimates... hods to... olling for



Results

Baseline Characteristics

Of the 300 ICS entrepreneurs who were randomized and started training, 169 (56%) resided in the rural area and 131 (44%) in the urban area. Gender distribution was similar in both sites, with women comprising 64% in the rural area and 66% in the urban area. To examine differences in entrepreneurial activity resulting from the intervention, it is important to establish baseline comparability between the groups. Table 1 presents baseline data on the final cohort of ICS entrepreneurs that includes those that were randomized and present at the training (n = 300). We found no significant differences between the control and intervention group with respect to key baseline characteristics that we believe could influence long-term entrepreneurial activity, such as education, age, or previous business experience.

Table 1. Baseline characteristics of randomized sample (n = 300)

[Download CSV](#)

[Display Table](#)



Charac

From the
associat
business
concerns
cited lim

Basid
in avera
study. Si
between
entrepre
ICSs tha
agency-l



and women
e new
nificant
preneurs
ups.

r differences
course of the
nd range
n selling
acity to sell
d the
ICSs than



with the rural areas. This is due, in large part, to the high poverty levels in the rural areas that result in reduced capacities to purchase durable goods. In addition, these entrepreneurs faced significant challenges in identifying new markets due to difficult travel conditions in the rugged mountain regions.

Table 2. Median (and range) improved cookstove sales for the duration of the study, by gender and intervention



[Download CSV](#)

[Display Table](#)

Sales Patterns

A review of the sales patterns over time revealed that ICS sellers fell into three distinct groups: personal, limited, and active. Personal sellers sold no ICSs or only one, usually purchased for themselves. Limited sellers were those who sold a small number (two to seven units and generally sold them to family or friends). Active sellers were those who sold eight or more ICS units and tended to sell beyond their existing familial group. We found substantial variation in ICS sales over time, with entrepreneurs selling from 0 to 85 ICSs over the nearly 8-month period. Nearly three fourths (72%) of the entrepreneurs in the control group sold no ICSs or only one, compared with 50% in the intervention group. Poor or no sales tended to be more common for men (65%)

compare

Figure 3

Nearly 8

of wome

men and

common

15% of

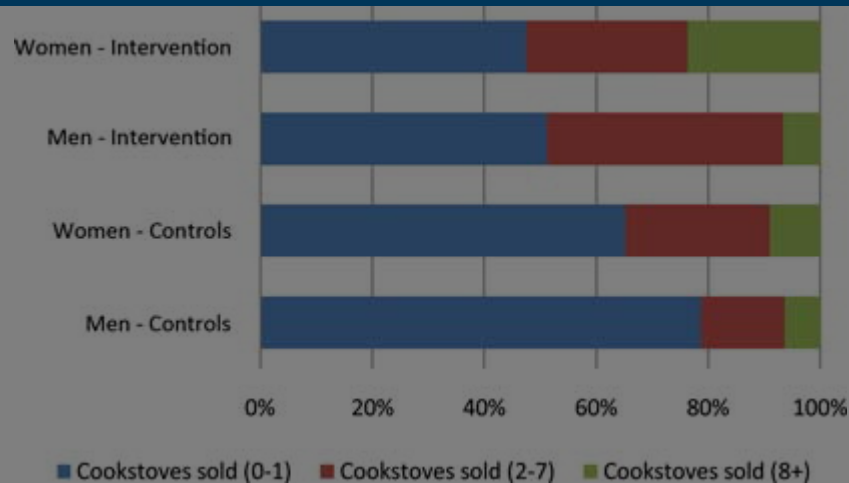
grou

the inter

within a

Fig. 3 Pe





Display full size

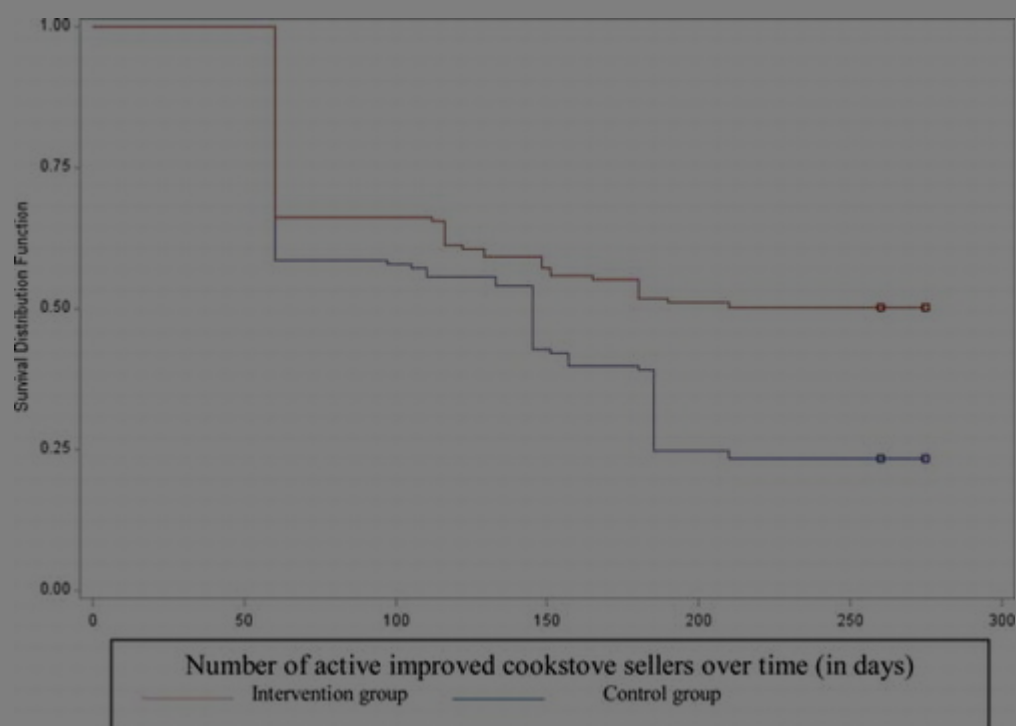
Entrepreneurial Activity Over Time

Selling ICSs was a relatively new activity for the entrepreneurs, especially in the rural study site. ESVAK attempted to run this program as they would any new entrepreneurial activity, where they would provide general guidance through the training and follow-up meetings. Although ICS sales officially began in December entrepreneurs were slow to sell and participation in the sales meetings lagged. The field teams sent reminder text messages prior to the follow-up meetings and also called the members to encourage them to attend. All travel expenses were covered by the project. However, despite these measures, follow-up meetings were generally poorly attended (about one fourth to one third of the sellers would attend). This was



entrepreneur as inactive. Using a Kaplan-Meier survival analysis, we plotted how well the individual businesses survived on the basis of the activity of the entrepreneurs in both the intervention and control groups (Figure 4).

Fig. 4 Kaplan-Meier curve showing business survival (activity) rates over time between control and intervention groups. Statistical significance χ^2 df; Log-rank 16.23; $p < .0004$.



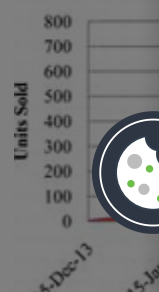
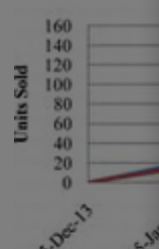
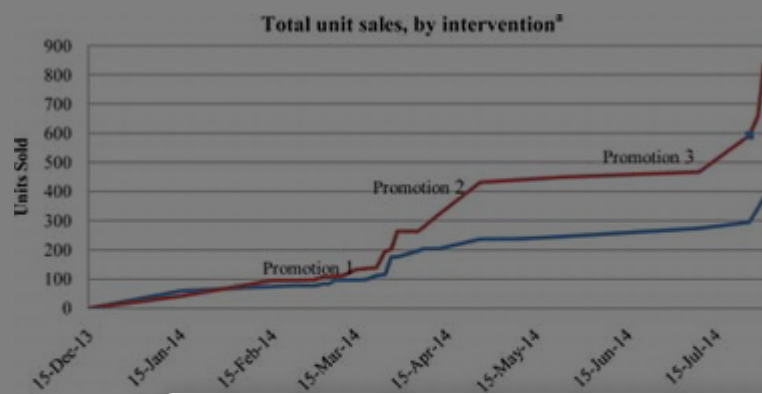
Display full size



×

period. The incentive is referred to as a promotion; the first promotion occurred in early-March, when entrepreneurs were provided additional sales and marketing materials along with a lowered wholesale price for the ICS. A second promotion occurred in mid-April, and a final promotion was done in early July. For the final promotion in July, entrepreneurs were told that only those ICS sellers who demonstrated strong sales performance would be retained for the ESVAK business program once the study was completed. From Figure 5 it appears that the incentives were instrumental in driving sales volume up and entrepreneurs who received the agency-based training were significantly more likely to take advantage of the promotions and increase their sales in comparison to the control group.

Fig. 5 Total cookstove sales over time, by intervention group. ^aIntervention n = 835, control n = 379. ^bIntervention men n = 136, control men n = 60. ^cIntervention women n = 699, control women n = 319.



Display full

For the f
character

ing
eight or

analysis to model the relative risks (or, in this case, the relative likelihood) of being a higher seller. In this comparison, controlling for gender and location, those who received the agency-based empowerment training were nearly three times more likely to be an active seller (relative risk = 2.74, 95% CI [1.41, 5.35]). Likewise, being female or living in an urban area more than doubled the likelihood of being an active seller (relative risk [female] = 2.12, 95% CI [1.03, 4.35]) and (relative risk [urban] = 2.41, 95% CI [1.33, 4.37]).

Table 3. Relative risk estimates for intervention, gender and location on high-selling capacity

Download CSV

Display Table



Discussion

With greater understanding of the deleterious effects of household air pollution and the recognition that those most vulnerable are poor women, there is growing interest in addressing this energy-gender-poverty nexus (Clancy, [2011](#); Clancy et al., [2003](#)). There is limited empirical research on the gender dimensions within the energy sector and

much of the research on energy poverty and gender is based on different countries, making it difficult to compare rates of energy poverty. For example, Rehfuess et al. (2011) found that women in the World Bank region are more likely to be sexually exploited. The Global Alliance for Energy Resilient Development (GAARD) has identified energy poverty as a key challenge to achieving the Sustainable Development Goals (SDGs). However, the GAARD (2016) report highlights that the risk of energy poverty is higher for women (Global Alliance for Energy Resilient Development, 2016). Solutions to energy poverty must be gender-responsive. The GAARD (2016) report highlights that the risk of energy poverty is higher for women (Global Alliance for Energy Resilient Development, 2016). Solutions to energy poverty must be gender-responsive. The GAARD (2016) report highlights that the risk of energy poverty is higher for women (Global Alliance for Energy Resilient Development, 2016). Solutions to energy poverty must be gender-responsive.



consistent adoption of ICS, it is critical to address gender inequalities in this area and identify ways of more effectively including women in the ICS value chain.

The recent seminal World Bank report on the need to enhance women's voice and agency (2014) stated that fostering agency (defined here as the capacity to act and make choices without fear of retribution) can lead to positive development outcomes, not only for women, but for their family and society as a whole. A recent analysis of Demographic and Health Survey data from Indonesia found that maternal agency is strongly protective of diarrhea and acute respiratory tract infections, especially in children 2 years of age or younger, even after controlling for maternal education (Agustina, Shankar, Ayuningtyas, Achadi, & Shankar, 2014).

It is likely that beyond the negative social and health impacts of energy poverty that are well documented, there is a significant loss of women's agency and voice that result from poor energy access. Within the context of the energy-gender-poverty nexus, there is a significant opportunity to leverage the need to increase access to clean energy solutions with the empowerment of women. However, engagement of women requires targeted interventions that optimize their effectiveness, not only in the economic sphere, but also to build their intrinsic capacities to navigate the often significant sociocultural challenges that they face.

This study is the first to systematically test an intervention targeted at fostering

individual randomized
trial des training
could lea pulation of
Kenyan training, the
greatest only led to
greater limited
success



From gaged as
ICS entre his is in line
with the hat women
are idea eeds of other
women a

This stud an agency-

them and their desires for their own lives. Because the agency-based training is internally focused, individuals are able to find meaning and associations that are relevant to them and potentially facilitate positive behaviors (Shankar et al., [2015](#)). This agency-based approach has significant implications for the scaling of clean cooking solutions as it provides a tool to enhance an individual's overall capacity to function in new endeavors. In most regions where energy poverty is high, women can, if properly trained, successfully engage within the energy sector, enhance their own economic condition, and promote an important social innovation within their community. Moreover, the enhanced agency directly fostered through this process has potentially a wide range of benefits for the individual, their family and their community.

There are several limitations of this study. We found significant drop out in participation over time. Qualitative data from the follow-up meetings indicate that this may be due to an expectation that participation would result in the provision of free goods or other materials, as this was a program of a charitable nongovernmental organization. In addition, there was a lag in the development of strong field support systems, especially in the rural areas where the last mile terrain travel was difficult. This also led to limited ongoing support for the newly trained entrepreneurs. Last, although there was a significant improvement in sales towards the end of the study, overall sales performance was low. Qualitative data from the ongoing support meetings indicated that entrepreneurs felt additional skills would build their competency, especially more

integrated... for Clean
Cookstove... ing
curriculum... business
training...
Women's... capacity to
navigate... e faced on a
daily...
empower... solutions
and move... oice in this
sector. V... e will reach
our goal... lutions.



Related Research Data

“We Learnt that Being Together Would Give us a Voice”: Gender Perspectives on the East African Improved-Cookstove Value Chain

Source: Informa UK Limited

Come on out of the ghetto, please! – Building the future of entrepreneurship research

Source: Emerald

A multi-stakeholder perception analysis about the adoption, impacts and priority areas in the Kenyan clean cooking sector

Source: Springer Science and Business Media LLC

The Gendered Nature of Liquefied Petroleum Gas Stove Adoption and Use in Rural India

Source: Informa UK Limited

Implementation science to accelerate clean cooking for public health

Source: eScholarship, University of California

Acceptability and feasibility of a behavioral and mobile health intervention (COMBIND) shown to increase uptake of prevention of mother to child transmission (PMTCT) care in India.

Source: Springer Science and Business Media LLC

Linki



Refer

1. August (2014) Mat... ory tract inf... urnal. doi:10
2. Bandu on Psych



3. Batliwala, S. & Reddy, A. (1996). Energy for women and women for energy: Empowering women through energy entrepreneurship. *ENERGIA New*, 1(1).
[Google Scholar](#)
4. Boserup, E. (1970). *Women's role in economic development*. London, England: George Allen & Unwin.
[Google Scholar](#)
5. Bruce, N., Rehfuess, E., Mehta, S., Hutton, G. & Smith, K. (2006). Indoor air pollution. In D. T. Jamison J. G. Breman A. R. Measham G. Alleyne M. Claeson D. B. Evans ... P. Musgrove (Eds.), *Disease control priorities in developing countries* (2nd ed., pp. 793–816). Washington, DC: World Bank.
[Google Scholar](#)
6. Cecelski, E. (2000). *The role of women in sustainable energy development*. National Renewable Energy Laboratory. Retrieved from <http://www.nrel.gov/docs/fy00osti/26889.pdf>
[Google Scholar](#)
7. Cecelski, E. (2004). *Re-thinking gender and energy: Old and new directions*. *ENERGIA New*, 1(1), 1–10.
Retrieved from <http://www.nrel.gov/docs/fy04osti/31477.pdf>
[Google Scholar](#)
8. Chegini, M. (2004). Women's entrepreneurship and energy efficiency: A case study of the government and private sector in Iran. *Energy Efficiency and Conservation*, 2, 86.
[Google Scholar](#)
9. Clancy, C. (2004). Women's entrepreneurship and energy efficiency: A case study of the government and private sector in Iran. *Energy Efficiency and Conservation*, 2, 86.
[Google Scholar](#)



0. Clancy, J. S., Skutsch, M. & Bachelor, S. (2003). The gender-energy-poverty nexus: Finding the energy to address gender concerns in development. London, England: U.K. Department for International Development. Retrieved from http://www.riaed.net/IMG/pdf/DFID_Doc_Energy_Gender.pdf
Google Scholar

1. Dutta, S. (2005), Energy as a key variable in eradicating extreme poverty and hunger: A gender perspective on empirical evidence on MDG #1. DFID Discussion Paper. London, England: U.K. Department for International Development. Retrieved from http://r4d.dfid.gov.uk/pdf/outputs/energy/r8346_mdg_goal1.pdf
Google Scholar

2. Global Alliance for Clean Cookstoves. (2011). Igniting change: A strategy for universal adoption of clean cookstoves and fuels. Washington, DC: Author. Retrieved from <http://www.cleancookstoves.org/resources/fact-sheets/igniting-change.pdf>
Google Scholar

3. Haile, F. (1989). Women fuelwood carriers and the supply of household energy in Addis Ababa. *Canadian Journal of African Studies*, 23, 442-451.

Web of Science ® | Google Scholar

4. Hanna
house
Workin
Retrie

5. Ka
ent
http://th_wo
Goog

6. Kelley
Resea
rship
men's



7. Klugman, J., Hanmer, L., Twigg, S., Hasan, T., McCleary-Sills, J. & Santamaria, J. (2014). Voice and agency: Empowering women and girls for shared prosperity. Washington, DC: World Bank. Retrieved from <https://openknowledge.worldbank.org/handle/10986/19036>

 | [Google Scholar](#)

8. Köhlin, G., Sills, E. O., Pattanayak, S. K. & Wilfong, C. (2011). Energy, gender and development: What are the linkages? Where is the evidence? Social Development Working Paper. No. 125. Washington, DC: World Bank.

 | [Google Scholar](#)

9. Lambrou, Y. & Piana, G. (2006). Energy and gender issues in rural sustainable development. Rome: FAO.

[Google Scholar](#)

10. Lewis, J. J. & Pattanayak, S. K. (2011). Who adopts improved fuels and cookstoves? A systematic review. *Environmental Health Perspectives*, 120, 637-645.

 | [Web of Science ®](#) | [Google Scholar](#)

21. Lim, S., ... Ezzati, M. (2011). ... attributions for the ... atic analysis ... 0.

22. Mc ... w demand ... for no ... ademy of ... Scienc

23. Pacha ... ergy ... pover ... ental



24. Practical Action. (2010). Poor people's energy outlook 2010. Bourton-on-Dunsmore, England: Author.

[Google Scholar](#)

25. Ramanathan, V. & Carmichael, G. (2008). Energy, poverty and gender: A synthesis. World Bank: Washington, DC. Retrieved from

https://www.esmap.org/sites/esmap.org/files/Rpt_GBL_EnergyPovertyGender.pdf

[Google Scholar](#)

26. Samman, E. & Santos, M. E. (2009). Agency and empowerment: A review of concepts, indicators and empirical evidence. Oxford Poverty and Human Development Initiative. Retrieved from <http://www.ophi.org.uk/wp-content/uploads/OPHI-RP-10a.pdf>

[Google Scholar](#)

27. Shankar, A. V., Onyura, M., Ojode, M. & Milliam, E. (2015). Fostering individual agency and well-being in women: An evaluation of the IMAGINE-Kenya Initiative. *Development in Practice*, 25(3).

[Google Scholar](#)

28. Smith
Devel

29. United
ed at the

Fourth

ht

Goog

30. World
eijing. World

Bank

<http://>

t.pdf

Goog



1. World Bank. (2010). Making infrastructure work for women and men: A review of World Bank Infrastructure Projects (1995–2009), Social Development Department and Sustainable Development Network. Washington, DC: World Bank. Retrieved from http://siteresources.worldbank.org/EXTSOCIALDEVELOPMENT/Resources/244362-1265299949041/6766328-1270752196897/Gender_Infrastructure2.pdf

[Google Scholar](#)

2. World Health Organization. (2011). Indoor air pollution and health. Geneva, Switzerland: Author.

[Google Scholar](#)

[Download PDF](#)

Related research

People also read

Recommended articles

Cited by
31



Information for

- Authors
- R&D professionals
- Editors
- Librarians
- Societies

Opportunities

- Reprints and e-prints
- Advertising solutions
- Accelerated publication
- Corporate access solutions

Keep up to date

Register to receive personalised research and resources by email

 Sign me up

- 
- 
- 
- 
- 

Open access

- Overview
- Open journals
- Open Select
- Dove Medical Press
- F1000Research

Help and information

- Help and contact
- Newsroom
- All journals
- Books



Copyright

Accessib

Registered
5 Howick Pl

or & Francis Group
orma business

