

2017 PROGRESS REPORT

*Driving Demand.
Delivering Impact.*





FRONT COVER: A mother of two young children, Sita Bai lights her gas stove, which she received through India's cooking gas program. "I used to be busy all the time. Cooking with traditional cookstoves was time-consuming. Now I have time to grow vegetables, which we eat and also sell in the market. Not only am I spending my time more efficiently and breathing better, but also supporting my family. It has changed my life."




“I have company while I cook.”

In Jocotenango, Guatemala, Rosa de Sapeta's family used to avoid her smoke-filled kitchen until she replaced her open fire with a cleaner burning cookstove.

This image and quote were featured in National Geographic's September issue as part of a photo essay highlighting clean cooking and the Alliance's work.

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A woman with glasses, wearing a brown blazer and a patterned scarf, stands in a warehouse. She is surrounded by stacks of boxes labeled 'jiko' and 'PowerPoint'. To her right is a stack of yellow plastic plates. She has her hand on a wooden desk in the foreground.

“It makes me proud to see the women I train grow and fulfill their dreams.”

Lilian Mungai is a Regional Manager for Alliance-supported Livelyhoods, an organization that provides employment opportunities for youth and women to market and sell eco-friendly consumer goods like cleaner-burning cookstoves. Lilian has dedicated her life to helping marginalized communities break out of the cycle of poverty and improve their own livelihoods. She says her work on clean cooking is helping her do exactly that.

FROM THE CEO

Just a few years ago, it would have been hard to imagine the tremendous progress being made across the clean cooking sector.

Today, clean cooking is widely recognized as a global development and climate priority. Both private sector and government-led programs are driving growth. They are also helping create a shift toward distribution and use of cleaner, more advanced cookstoves and fuels, while empowering millions of women in the process.

In 2010 when the Alliance was launched, few could have imagined an initiative like India's unprecedented campaign to connect over 80 million+ households to clean cooking gas. A host of governments are now helping boost sector development, including Canada's investment in a national action plan in Haiti, Norway's support of the creation of a smoke-free kitchens program in Nepal, and Tanzania's phase-out of charcoal in its government facilities. China is also expanding its own efforts through the inclusion of clean cooking in its South-South development assistance support.

Funders and investors are also supporting progress. Manufacturers like Burn, Biolite, Envirofit, and Greenway, as well as innovative fuel-based enterprises such as Inyenyeri, PayGo Energy, and KOKO Networks are raising new capital.

In 2010, few would have believed that we would be so close to having an ISO-approved standard on harmonized laboratory test protocols for cooking technologies and that labels would soon be affixed on cookstoves in Ghana. Or that there would be cookstoves stores in Guatemala, government-sponsored, clean cooking messages sent to over 15 million people in Bangladesh, or a top-rated television show in Kenya built around encouraging use of cleaner cookstoves and fuels. Or that so many new actors—including CARE, Save the Children, WWF, and the World Resources Institute—are either launching or expanding their focus on clean cooking and household air pollution.

Yet for all that has changed, significant challenges remain. A sobering report from Sustainable Energy for All showed a multi-billion dollar investment gap for what's needed to fund clean cooking. Without new resources, our sector will likely miss the

clean cooking targets outlined in the Sustainable Development Goals.

We know our market-based approach is a cutting-edge solution to one of the world's oldest challenges. This year's results report shows we are well on our way to our 100M x 2020 goal. We are making progress. But much more must be done, and we must now shift toward universal adoption by 2030.

Now is the time to accelerate market development with greater grants and investment. We must secure stronger financing of proven business models and increased production and adoption at scale. We must ensure support for those transformative solutions and technology that will allow people to leapfrog. With a growing population of displaced people around the world, we will also tailor learnings from our efforts to appropriate technologies and fuels in humanitarian settings to ensure no one is left behind.

Now is the time to accelerate market development with greater grants and investment.

Without these activities happening—without increased investment to strengthen enterprises, without broader donor support and government engagement, without reinventing ourselves and evolving with our sector—we risk slowing down at the very time that we need to be building and scaling up.

We've come a long way. We're making real progress. Let's put our feet on the accelerator to drive this sector and market forward.

Our journey continues.



Radha Muthiah
Radha Muthiah
Chief Executive Officer

2016 SECTOR RESULTS AND MARKET TRENDS

Each year the Alliance invites organizations working in the sector to share their annual sales and distribution numbers. This self-reported data is compiled and used to model sector progress toward increasing access to and adoption of cleaner, more efficient cookstoves and fuels.

SECTOR GROWTH CONTINUES

Based on results reported by partners this year and careful analyses of the trends in available data, an estimated¹ 37 million stoves and fuels were distributed in 2016, of which 30.8 million (83%) were clean and/or efficient.² This includes the diverse mix of cookstoves and fuels that comprise the sector today. The increasing availability of a mix of cleaner,

more efficient stoves and fuels is an essential component of a thriving global market for clean cooking solutions. Furthermore, as we continue to move towards our 100M goal and beyond, rather than relying on the efforts of a few major players in the sector, we strive to increase momentum across a range of technologies and geographies.



1 Aggregated trends from Alliance partners who have reported consistently are used to estimate distribution trends in the sector. Historical trends were also updated based on additional reporting and verification of data received. Detailed technical documentation of estimation methodology is available at www.cleancookstoves.org/sr2016.

2 The definitions of “clean” and “efficient” are aligned with the interim performance guidelines in the ISO International Workshop Agreement (IWA). For this report, stoves and fuels that meet Tier 2 for efficiency are considered efficient, and those that meet Tier 3 for indoor emissions are considered clean for health.

DISTRIBUTION OF CLEAN AND/OR EFFICIENT STOVES AND FUELS

Figure 1 illustrates the percentage of cookstoves and fuels distributed in 2016, broken down by category. An estimated 116 million stoves and fuels, of which 80.9 million were clean and/or efficient, have been distributed since 2010 (Figure 2).³ This includes repeat purchases by some households. Based on conservative assumptions to reflect trends in enterprise growth and government programs, we have projected distribution trends through 2020. Using information voluntarily reported by partners since 2012, the Alliance modeled unreported activity to estimate distribution to date. These projections suggest that that over 200 million clean and/or efficient stoves and fuels will be distributed by 2020.

While these distribution numbers reflect progress and growth in the sector, we must maintain a continued focus on promoting the sustained adoption of a progressively cleaner and more efficient mix of cooking solutions. Recently completed research studies highlight the critical importance of ensuring affordability, accessibility, and awareness to achieve our 100M adoption goal.

FIG. 1: ESTIMATED DISTRIBUTION OF STOVES AND FUELS, 2016

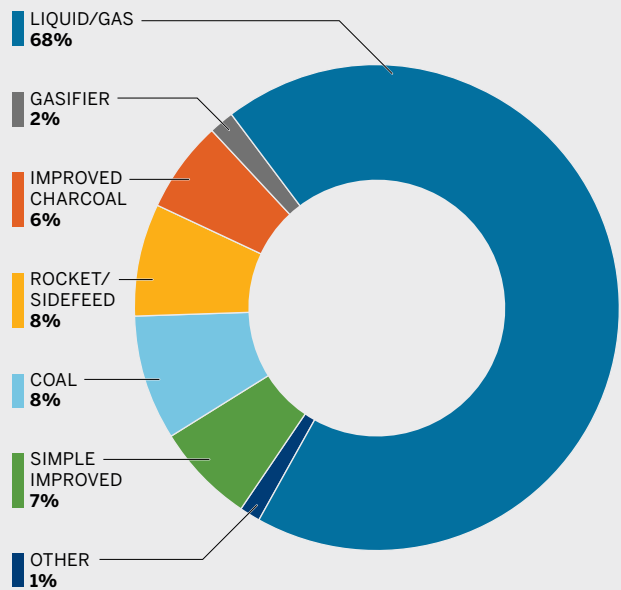
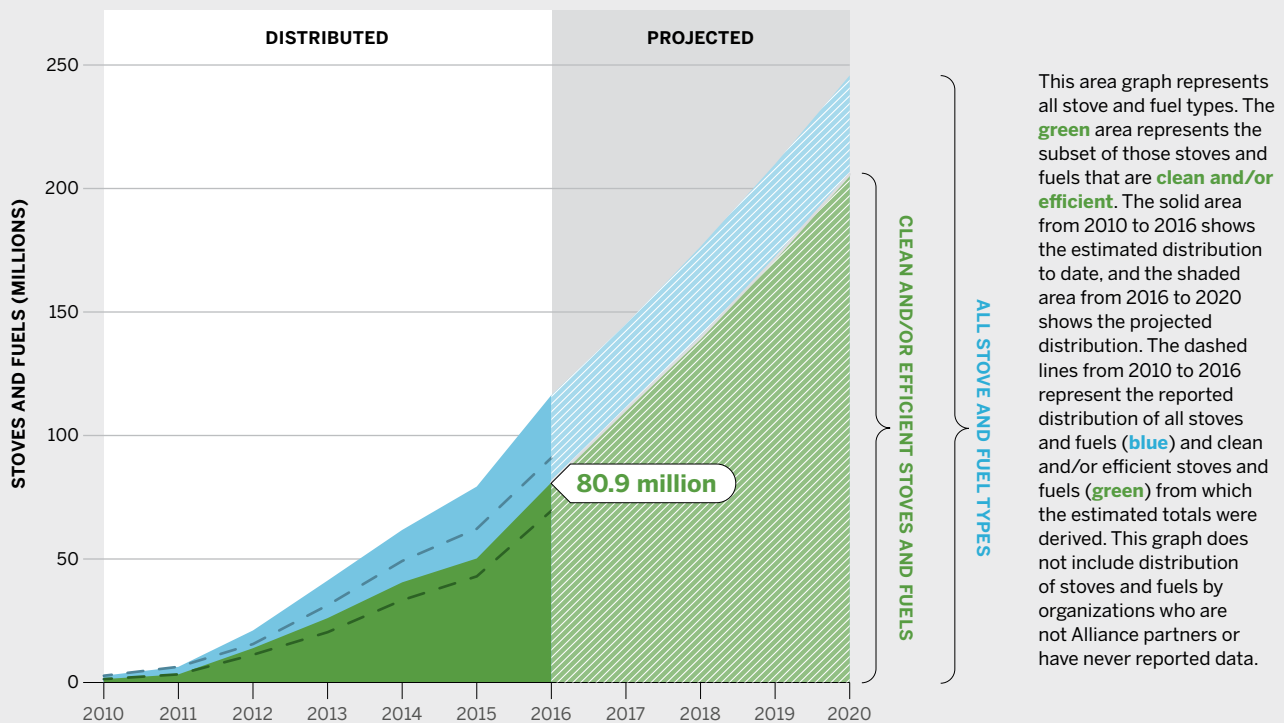


FIG. 2: CUMULATIVE GLOBAL STOVE AND FUEL DISTRIBUTION (2010 - 2016) AND PROJECTIONS (2017 AND BEYOND)



³ In analyzing distribution and reporting trends over time, an error in the 2015 analysis was found. Data from a manufacturer was inadvertently incorporated into the analysis twice. As a result, liquid/gas stove distribution for 2015 was overestimated by approximately 3 million. The distribution analysis has been updated for 2016 based on the revised information.

BEYOND LPG, THE PROPORTION OF CLEANER, MORE EFFICIENT STOVES AND FUELS IS INCREASING

Increasing proportions of higher performing stoves and fuels are being distributed over time. Of the 116 million stoves and fuels distributed since 2010, 70 million are efficient, 44 million are clean, and 80.9 are clean and/or efficient.

While the increased proportion of distribution at the highest tiers is heavily influenced by India's Pradhan Mantri Ujjwala Yojana (PMUY) cooking gas program, global trends also reveal a similar pattern in the scale up of better-performing biomass stoves and fuels. If India's PMUY numbers for 2016 are excluded, biomass stoves made up 6% of clean stoves in 2015, and 27% of clean stoves in 2016.

FIG. 3: ESTIMATED DISTRIBUTION OF CLEAN AND EFFICIENT STOVES AND FUELS, 2013 – 2016

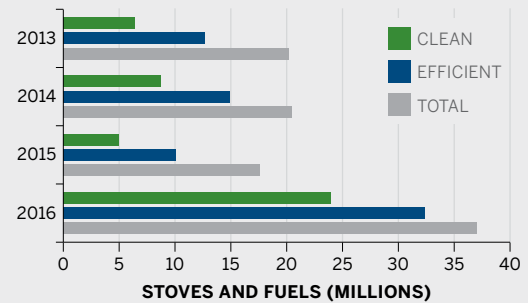
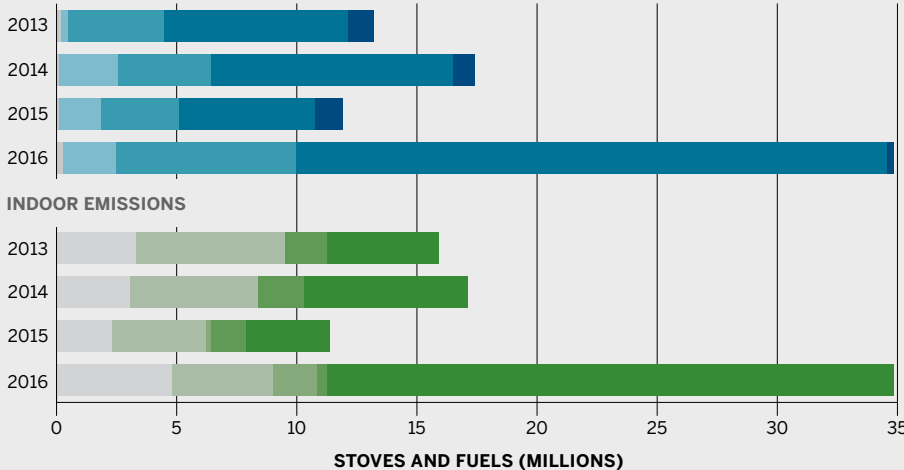


FIG. 4: ESTIMATED DISTRIBUTION OF STOVES AND FUELS, BY TIERS OF PERFORMANCE*

EFFICIENCY



Efficiency is a marker for potential environmental benefits, and indoor emissions is a marker for potential health benefits. The Alliance rates stove performance according to the IWA Tiers of Performance. Tiers 0-4 range from lowest- to highest-performing stoves.

* Totals here do not include stoves and fuels without adequate information to assign tiers.

INDIA CONNECTS 20 MILLION HOUSEHOLDS TO CLEAN COOKING GAS

The Pradhan Mantri Ujjwala Yojana (PMUY) program was launched in 2016 by Prime Minister Modi to increase access to clean cooking fuels to protect the health and safety of women and children. PMUY provides Below Poverty Line households with the opportunity to transition to LPG, with a target of reaching 80 million households by 2020.

Beyond providing the initial connection and first gas cylinder, persuading people to make a sustained investment in fuel refills is essential to achieving intended benefits.



If 5 million households in India transition to the exclusive use of clean cooking, > 180,000 premature deaths could be prevented.



If 45 million households transition to LPG for half of their cooking needs and 5 million households transition to exclusive use of LPG:

- Almost 30 million metric tons of greenhouse gas emissions (CO₂eq) could be averted in one year.
- The amount of solid biomass burned in one year could be reduced by 34 million metric tons.

PERFORMANCE DEFINITIONS EVOLVE WITH THE SECTOR

The ISO International Workshop Agreement (IWA) tiers were intended to serve as interim guidance while an ISO technical committee developed updated protocols and tiers. Since 2012, the Alliance and other sector stakeholders have used this framework as the basis of the Alliance's definitions of "clean" and "efficient" to track progress toward our key milestone, 100 million households by 2020. To date, stoves and fuels that meet Tier 2 for efficiency have been considered efficient, and those that meet Tier 3 for indoor emissions have been considered clean for health. In August, the ISO technical committee approved a technical report that includes revised voluntary performance targets (e.g., an updated tier framework). Once this report is published, the Alliance will reassess our definitions of "clean" and "efficient" to ensure they reflect the latest international consensus on stove and fuel performance.

MOMENTUM WITHIN THE ENTERPRISE PIPELINE

The shift toward industrial-scale production and distribution of cleaner, more efficient biomass stoves is evident in markets globally. Product manufacturers and designers such as Burn and EcoZoom, Greenway Appliances, and Envirofit, are realizing greater demand for their stoves and are diversifying product lines to leverage greater manufacturing capacity. Last mile distribution businesses such as NewLight Africa and Essmart are achieving improved economics by cross-selling complementary products such as solar home systems. Appliance/fuel models such as Inyenyeri and Emerging Cooking Solutions are building sustainable business models by targeting money spent on fuel.

Technology and business innovations are making fuels such as biogas, ethanol, and LPG more accessible and affordable. KopaGas, PayGo Energy, and BBOX are developing smart meter-based, pay-as-you-go LPG solutions to deliver affordable cooking gas in urban and peri-urban markets. The mobile technology involved allows for remote monitoring, and the collection of data on usage patterns of their customer base. KOKO Networks and Green Energy & Biofuels are also developing innovative approaches for the distribution of ethanol.



TRACKING SUSTAINED USE FOR MAXIMUM IMPACT

Beyond distribution, delivering impact means ensuring sustained use at scale. Assessing how best to ensure adoption over time requires an understanding of the barriers to the uptake and sustained use of cleaner, more efficient cookstoves and fuels, as well as an intensive focus on increasing access and affordability. Several Alliance partners, including the World Bank, Energizing Development, and the World Health Organization, will soon provide data on progress toward universal adoption of sustainable energy.

While growth reported within individual enterprises may fluctuate from year to year, one thing is clear—the potential market for cleaner, more efficient cookstoves and fuels is not

limited to higher income households. Increased distribution and use will be achieved through improved stove design and performance, increased government commitments, and added focus on innovative distribution and financing models. Behavior change campaigns in Bangladesh, Kenya, and Nigeria are starting to drive demand and adoption. Thus, we expect to see continued momentum reflected in increasing distribution numbers. When governments and the private sector are committed to expanding access and affordability, their complementary strengths will ensure what was previously aspirational can be achievable. This will ultimately help us make measurable progress toward the achievement of at least 10 of the 17 Sustainable Development Goals.

GLOBAL HIGHLIGHTS

The clean cooking sector continued to see strong progress: with new investments and friendlier policies that fuel sector growth; more governments and actors engaging on the issue; and innovative programs that drive awareness, affordability, and adoption. While much work remains, Alliance partners are making tremendous strides as we work toward universal adoption of clean cooking.



A worker feeds metal through a machine at a Ghana Cylinder factory outside of Accra. Through its market-building funds, the Alliance continues to support a wide-range of enterprises across the clean cooking sector.

DRIVING AWARENESS, AFFORDABILITY, AND ADOPTION

IMPROVING MATERNAL AND INFANT HEALTH THROUGH CLEAN COOKING



Alliance-supported research delivered additional evidence that adopting clean fuels provided important health benefits for pregnant women and their babies. Compelling new evidence published this year found that replacing biomass and kerosene cookstoves with clean-burning ethanol stoves can reduce hypertension and cardiovascular risk in pregnant women. In addition, their babies were born later and heavier, giving them a healthy head start from birth. These findings also further support removing health-damaging kerosene as a home energy source.

INSPIRING FAMILIES TO ADOPT CLEAN COOKING



As part of its effort to motivate households to purchase and adopt cleaner cooking solutions, the Alliance launched multi-year behavior change communications interventions in 2017 that have already reached more than 20 million people with messaging on clean cooking. The campaigns employ a variety of communications channels, including an innovative TV and radio show in Kenya, an engaging Nollywood-style web series in Nigeria, intensive door-to-door outreach by community workers in Bangladesh, and youth champions training in schools in Ghana. To provide insight and inspiration to those implementing behavior change communication activities globally, the Alliance also created the BCC Resource Hub, a global database of materials and tools used in awareness raising and marketing campaigns from across the clean cookstoves and fuels sector.

FOCUSING GLOBAL MEDIA ATTENTION ON CLEAN COOKING



Household air pollution has been the focus of news organizations from around the world this year. From a photo essay in *National Geographic* to a multi-part series on cooking and air pollution from the BBC, the media has helped highlight this too often under-reported crisis. International media outlets have reported on the Alliance's in-country efforts, including a *60 Minutes* feature about cooking in Haiti and a *PBS Newshour* full-length segment on the health impacts of clean cooking in Ghana, while national media such as the *Times of India*, *Dhaka Tribune*, Ghana's *Daily Graphic*, and Kenya's *Daily Nation* have featured the need for broader adoption of clean cookstoves and fuels, helping educate key audiences on this global issue.

BOOSTING ACCESS TO COOKING FUEL THROUGH PAY-AS-YOU-GO TECH



New technologies are helping transform how low-income consumers purchase and pay for cooking fuel. By providing energy services on a pay-as-you-go basis, innovative enterprises such as Envirofit, Kopa Gas, and PayGo Energy launched technology-focused business models to overcome the affordability barrier previously faced by consumers unable to afford the upfront cost of clean and efficient household cooking solutions. The innovations, including smart fuel canisters, cloud-connected kiosks, and mobile money payment systems, enable stove financing and sale of clean fuel in more affordable quantities and generate meaningful and important customer usage data.

MAKING STOVE SHOPPING EASIER IN GUATEMALA



To help meet the growing demand for cookstoves in Guatemala, the Alliance supported the opening of two new retail stores and training centers named “Estufas Mejoradas y Mas (Clean Cookstoves and More).” In addition to purchasing new cookstoves, customers can also find spare parts to service their current stoves. The store also provides a space for customers to learn about the issue, as well as about correct stove use and maintenance. They also host stove demonstrations to enable potential customers to “test drive” a stove they are interested in purchasing.

FUELING GROWTH THROUGH INVESTMENT, PERFORMANCE ENHANCEMENT, AND POLICY CHANGE

CONTINUING INVESTMENT IN THE SECTOR



The sector continued to attract debt and equity financing from a growing and increasingly diverse universe of banks, development finance institutions, and impact investors, bringing the total invested in the sector over the past 12 months to over US\$17 million. PayGo Energy, which seeks to expand LPG cooking in Kenya via pay-as-you go and mobile money, raised US\$1.5 million in its first institutional equity round. Rwanda-based Inyenyeri received an 8 million euro debt facility by UK climate investor Althelia Climate Fund and the Dutch development bank FMO, in coordination with the World Bank, to scale up and provide 150,000 households with clean burning gasifier stoves and pellets. In addition, a number of other debt and equity investors including Shell Foundation, TATA Trusts, and Engie are developing or deploying investment vehicles seeking to support multiple businesses along the supply chain for clean cooking solutions.

BRIDGING THE FUNDING GAP WITH SPARK+

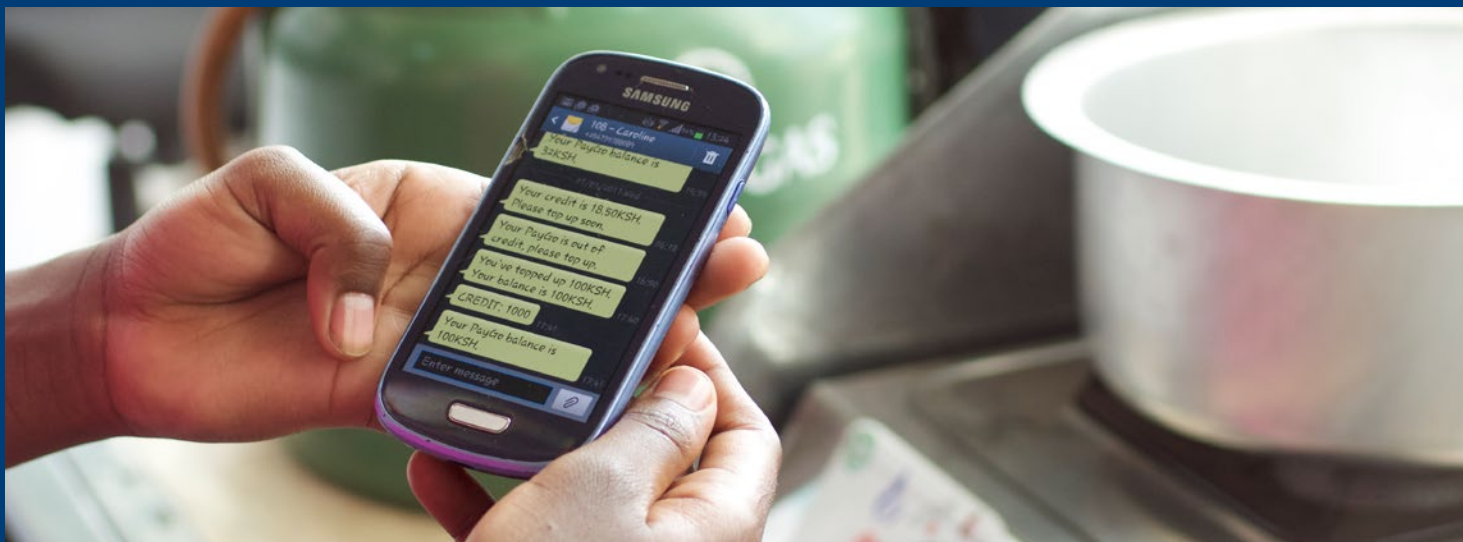


As part of its work to develop a pipeline of credible investment opportunities and spur sector growth, the Alliance partnered with Bank of America, the Osprey Foundation, and Shell to launch Spark+. Built on the success of its predecessor, Spark Fund, Spark+ provides investment readiness support to high-potential, scalable businesses. The first companies supported under Spark+ include EcoZoom, KopaGas, NewLight Africa, and Sustainable Green Fuel Enterprise (SGFE).

IMPROVING STOVE PERFORMANCE THROUGH STANDARDS



A new international standard on harmonized laboratory test protocols for cookstoves, developed with input from 45 participating and observing country members, reached the final stage of approval in the International Organization for Standards (ISO) process. This standard defines a test sequence for performance, as well as test protocols for safety and durability. An accompanying technical report on voluntary performance targets for cookstoves received final approval; it provides guidance on benchmarking performance, safety, and durability based on the laboratory testing standard. In addition, the Alliance is also working with numerous countries including Ghana, Guatemala, Kenya, Nigeria, and Uganda on national standards implementation plans, certification programs, and labeling efforts.



New pay-as-you-go technologies are helping transform how low-income consumers purchase and pay for cooking fuel.

SUPPORTING WOMEN ENERGY ENTREPRENEURS



To better recognize and support women leaders in the household energy sector, the Alliance hosted a Women's Energy Entrepreneurship Workshop in Nairobi. Attendees shared best practices, lessons learned, and ideas on driving the sector forward. As part of the workshop, the Alliance announced the first winner of the Woman Entrepreneur of the Year award, Uganda-based entrepreneur Betty Ikalany. The Alliance continues to support business models that are scaling women's energy entrepreneurship through the Women's Empowerment Fund on an annual basis and expects to announce new grantees in early 2018.

PHASING OUT CHARCOAL USE IN TANZANIA'S GOVERNMENT FACILITIES



To encourage use of cleaner cooking fuels and to better protect forests, the government of Tanzania is phasing out all charcoal use for cooking in government institutions. The new policy impacts schools, hospitals, prisons, and military facilities. To aid the transition, government ministries worked with stakeholders, producers, and distributors of LPG, who agreed to install gas storage facilities and gas cookers in the institutions. Supportive government policies like these are part of the enabling environment needed to scale clean cooking efforts.

SUPPORTING RENEWABLE ENERGY ACCESS IN UGANDA



The United Nations Capital Development Fund and the Embassy of Sweden in Uganda launched the Renewable Energy Challenge Fund, with a focus on clean cooking. The new funding program, which challenges companies to propose ideas that can drive the adoption of clean cooking solutions, seeks to increase access to renewable, efficient energy for domestic, productive, and social uses among underserved poor households, especially in rural areas. By the end of 2020, the fund aims to support 150,000 low-income customers' transition to renewable energy.



Alliance Woman Entrepreneur of the Year Betty Ikalany, founder of Appropriate Energy Saving Technologies.

CROWDING IN NEW ACTORS

TRANSFORMING CLIMATE PLANS INTO ACTION



The Alliance, the United Nations Framework Convention on Climate Change secretariat, and the United Nations Industrial Development Organization, with support from the Vanke Foundation, launched a workshop series to build the capacity of Global South countries to fulfill clean cooking commitments in their climate plans. Based on South-South cooperation, the program provides tools and guidance for critical action areas including financing, standards development and implementation, and sharing lessons learned and best practices. The first workshop, held in Vienna in September, hosted more than 50 officials and attendees representing 15 countries.

PRIORITIZING CLEAN COOKING IN NEPAL



The Alliance launched a comprehensive program to promote smoke-free kitchen communities in Nepal, where household air pollution accounts for over 18,000 premature deaths each year. The program, Maximizing the Health Benefits of Clean Household Energy in Urban Nepal, is supported by the Norwegian Ministry of Foreign Affairs and focuses on ensuring drastic reductions in cooking-related exposure to air pollution for household members and the broader community. The project will also inform and motivate future efforts to promote smoke-free kitchen communities.

IMPROVING ENERGY ACCESS IN HUMANITARIAN SETTINGS

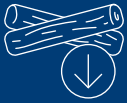


With global displacement reaching record levels, the Alliance launched a new grant facility to increase access to cleaner, more efficient fuels and cooking technology for refugees, IDPs, and other crisis-affected people. With support from the Norwegian Agency for Development Cooperation, the Alliance's Humanitarian Clean Cooking Fund expects to award its first round of funding in early 2018 to scale up previously-piloted, successful approaches to bring cooking solutions to crisis-affected communities. In addition, more than 140 people from 20 countries attended the SAFE Humanitarian Workshop. The event, co-hosted by the Alliance, helped build the knowledge and capacity of field practitioners and other stakeholders to provide effective fuel and energy solutions to crisis-affected people.



The large majority of people displaced from their homes due to conflict, war, and disaster lack access to clean cookstoves and fuels. The Alliance launched a grant facility to increase access to cleaner, more efficient cooking technology in humanitarian settings.

REDUCING FUELWOOD USE IN GUATEMALA



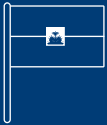
With tailor-made financial and technical support mechanisms, a new NAMA Support Project is seeking to help sustainably stimulate the supply and demand for energy efficient cookstoves in Guatemala. The country's government has committed to create improved conditions for sustainable and efficient firewood use. Co-benefits of the Alliance-supported project include the reduction in forest degradation, increased health benefits, and improved economic conditions of households (through the reduced need to purchase fuel and/or time spent on collecting firewood) for approximately 1.1 million people, mostly indigenous women and children living in poverty.

LEADING NEW INTEGRATED PARTNERSHIPS



The Alliance is heading the household energy-related efforts of the Bridge Collaborative, a new interdisciplinary partnership led by the Nature Conservancy, PATH, IFPRI, and Duke University to promote evidence-based impact across the environment, health and development communities. The program provides an opportunity to demonstrate the benefits of collectively addressing cross cutting solutions like clean cooking. For example, while there is currently limited information about cooking-nutrition linkages, the Bridge Collaborative provides a unique opportunity to bring these communities into a common dialogue.

CREATING A STRATEGY FOR CLEANER COOKING IN HAITI



Working closely with the government of Haiti and numerous partners, the Alliance, with funding from Global Affairs Canada, completed a proposal and country action plan to serve as a strategic framework for transforming the cookstoves and fuels market in Haiti. The proposed initiative would seek to: increase and improve the production and availability of cleaner, affordable, and more efficient cookstoves and alternatives to wood charcoal; improve the efficiency and ensure the sustainability of wood charcoal production; generate demand for cleaner, affordable, and more efficient cookstoves and fuels; and create a strong enabling environment to support sustainable market growth.



In Haiti, over 90 percent of people depend on wood and charcoal for cooking. A new country action plan developed in partnership with Global Affairs Canada, the government of Haiti, the Alliance, and numerous partners seeks to transform the country's cookstoves and fuels market.

CLEAN COOKING FORUM 2017

October 24-26 | New Delhi

With more than 600 attendees from 57 countries, the Clean Cooking Forum 2017 took place in New Delhi, India, this October under the theme *Driving Demand, Delivering Impact*. The three-day event, which was the largest Forum to date, featured nearly 40 engaging plenary and panel discussions, an expo showcasing stoves and fuels from 28 enterprises, numerous networking opportunities, and two days of site visits to households and communities using solar, gas, and biomass for their cooking needs.



United Nations Deputy Secretary-General Amina Mohammed welcomes attendees via video during the Forum's opening plenary delivered by Alliance CEO Radha Muthiah.

FORUM HIGHLIGHTS

The Forum featured a global lineup of leaders and influencers discussing the sector's continuing progress and what is needed to achieve universal adoption by 2030. Speakers and panel discussions highlighted solutions for driving demand and delivering the wide range of impacts clean cooking can provide.

DAY 1

Following state-of-the-sector addresses and a video welcome from UN Deputy Secretary-General Amina Mohammed, the Forum opened with a plenary on creating demand for clean cooking products and the huge potential for sector growth. The day continued with panels on air quality management, ways to better support enterprises, and lessons learned from women CEOs, all capped off by the Clean Cookstoves and Fuels Expo.

DAY 2

India Petroleum Minister Dharmendra Pradhan shared the goals and successes of Prime Minister Modi's cooking gas program for India, while SEforAll CEO Rachel Kyte issued an electrifying global call to action on the urgent need to address the sector's significant funding gap and ensure energy access to the poorest of the poor.

DAY 3

Representatives from Ghana, India, Nepal, Rwanda, and Uganda offered insight on the role governments play in creating and expanding national clean cooking markets, and clean cooking champions discussed how they can use their influence to drive the market forward toward universal adoption.



India Minister of Petroleum and Natural Gas & Minister of Skill Development and Entrepreneurship Dharmendra Pradhan addresses the government's unprecedented program to connect 80 million poor households to clean cooking gas.



SEATED, L TO R: Reema Nanavaty, Head, Self-Employed Women's Association; Burzis Taraporevala, Chief Financial Officer, Tata Trusts; Radha Muthiah, CEO, Global Alliance for Clean Cookstoves; Amitabh Kant, CEO of the National Institution for Transforming India; N.R. Narayana Murthy, Co-Founder, Infosys and Chair, Alliance India Leadership Council; Hajia Alima Mahama, Ghana Minister for Local Government and Rural Development

STANDING, L TO R: Marcel Raats, Energy Advisor, Enterprise Development Agency; Frank van der Vleuten, Senior Advisor, Ministry of Foreign Affairs of the Netherlands; Sanjeev Kapoor, Chef and Member, Global Alliance Chef Corps; Arunabha Ghosh, CEO, Council on Energy, Environment and Water; Linda Boll, Social Investment Advisor, Shell; Iman Alshammari, OPEC Fund for International Development; Yasmin Ali Haque, UNICEF Representative, India



A host of global clean cooking champions convened at the Forum, including Alliance Chef Corps member Sanjeev Kapoor (speaking), Grammy-nominated musician Rocky Dawuni, and Second Lady of Ghana Samira Bawumia.



The Forum included three site visit options to households and communities using solar, gas, and biomass for their cooking needs. A day trip to Tajnagar, a model village under India's Smart Village Initiative, was followed by a visit to BK Ashram to see this community solar steam cooking system.

THE FORUM IN NUMBERS



600+

PEOPLE ATTENDED AND

40%

WERE FIRST TIME ATTENDEES



57

COUNTRIES
REPRESENTED



38

ENGAGING PLENARIES
AND SESSIONS



28

ORGANIZATIONS PRESENTED
AND DEMONSTRATED THEIR
PRODUCTS AT THE STOVES
AND FUELS EXPO



6M+

PEOPLE REACHED ON SOCIAL
MEDIA FROM THE OFFICIAL
FORUM HASHTAG #CCF2017



10M+

PEOPLE REACHED VIA PRINT,
BROADCAST, AND ELECTRONIC
MEDIA GLOBALLY

CLEAN COOKING CHAMPIONS

Alliance Champions—members of the Leadership and Advisory Councils, Chef Corps, and Ambassadors—include nationally and internationally-influential individuals from the development, philanthropic, culinary, and government fields, working to raise awareness of household air pollution and promote a market-based approach for the adoption of clean cooking solutions. Here we showcase a few of the highlights of our champions' work this year:



Alliance Global Ambassador and head of the Alliance's Chef Corps José Andrés talks with IMF Managing Director Christine Lagarde about clean cooking and its potential to empower women around the world. Andrés, a long-time clean cooking champion, is chef/owner of ThinkFoodGroup and founder of World Central Kitchen.



United Nations Deputy Secretary-General Amina Mohammed visits a camp for internally displaced persons in the Democratic Republic of Congo. "We met with women who have no choice but to cook with coal in their tents, at great risk to their health and that of their children. These tents were their shelter, and coal their only accessible mode of sustenance and heat," she said about her visit.



Alliance Leadership Council Member Gina McCarthy, former head of the U.S. Environmental Protection Agency, speaks at the launch of the Lancet Commission on Pollution and Health. McCarthy and the Alliance helped promote the landmark study to raise global awareness of the impacts of household air pollution and the need to prioritize clean cooking.



China's Special Representative on Climate Change Affairs Minister Xie Zhenhua traveled to Myanmar with Alliance CEO Radha Muthiah to explore market-based clean cooking opportunities and South-South cooperation.

THE GLOBAL ALLIANCE FOR CLEAN COOKSTOVES IS
GRATEFUL FOR THE GENEROUS FINANCIAL AND
IN-KIND SUPPORT OF OUR DONORS IN 2017:

BILATERAL AND MULTILATERAL

Bundesministerium für wirtschaftliche Zusammenarbeit und Entwicklung (BMZ)
Climate and Clean Air Coalition
Department for International Development (DFID) United Kingdom of Great Britain and Northern Ireland
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
Global Affairs Canada
Ministry for Foreign Affairs, Finland
National Institutes of Health
Netherlands Enterprise Development Agency
Norwegian Agency for Development Cooperation
OPEC Fund for International Development
United States Agency for International Development
United States Department of State
World Bank Group

CORPORATE

Bank of America
Johnson & Johnson
Shell
Techno Oil

FOUNDATION AND CIVIL SOCIETY

Boston Foundation
Caterpillar Foundation
EPIC Sustainability
Osprey Foundation
Ruth H. Brown Foundation
Shell Foundation
Tata Trusts
Vanke Foundation

Thanks also to our many individual donors,
whose invaluable support enables our work around the world.

LEADERSHIP COUNCIL



Hillary Rodham Clinton
Former Secretary of State of the United States



António Guterres
Secretary-General of the United Nations



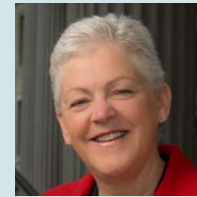
Christiana Figueres
Former Executive Secretary of the UNFCCC



Nick Hurd
Minister of State for Climate Change and Industry, United Kingdom



Hajia Alima Mahama
Minister of Local Government and Rural Development, Ghana



Gina McCarthy
Former Administrator of the Environmental Protection Agency, United States



Mary Robinson
Former President of Ireland, President of the Mary Robinson Foundation – Climate Justice



Abubakar Bukola Saraki
Senator of the Kwara Central, Nigeria



Wang Shi
Founder and Honorary Chairman, China Vanke Co., Ltd



R. Venkataramanan
Executive Trustee of the Sir Dorabji Tata Trust and Allied Trusts



Xie Zhenhua
Special Representative on Climate Change, the People's Republic of China

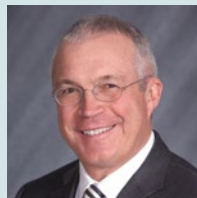
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Former President, Global Public Affairs and Strategic Engagement, Fleishman-Hillard



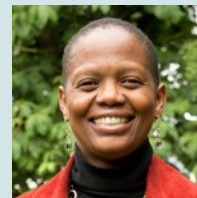
Kathy Calvin
President & CEO, United Nations Foundation



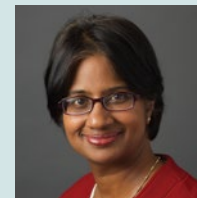
Jay Ireland
President and CEO, GE Africa



David Martin
General Manager, Production, Nigeria, Shell Petroleum Development Company of Nigeria



Wanjira Mathai
Director, wPOWER Hub at the Wangari Maathai Institute



Radha Muthiah
CEO, Global Alliance for Clean Cookstoves

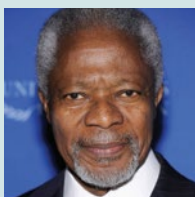


Juan Carlos Paiz
Co-Founder and President, Pani-Fresh

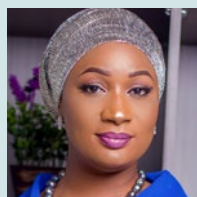
GLOBAL AMBASSADORS AND SUPPORTERS



José Andrés
Founder of World Central Kitchen, and chef/owner of ThinkFoodGroup



Kofi Annan
Former Secretary-General of UN, and Chairman of Kofi Annan Foundation



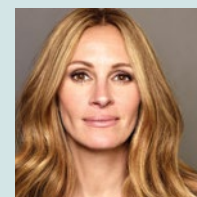
Samira Bawumia
Second Lady of Ghana



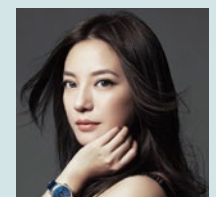
Rocky Dawuni
International musician and humanitarian advocate



N.R. Narayana Murthy
Co-Founder, Infosys and Chair of Alliance India Leadership Council



Julia Roberts
Actor



Zhao Wei
Actor and director



“A lot more people are using gas for cooking now, which is good for health and the air, and also for my job and my family.”

As one of a team of 20 sales agents, Narendra Mathur says he travels about 2-3 km per day delivering 10-15 cooking gas cannisters, which customers order by phone.

राजस्थान राज्य सड़क विकास एवं विभागीय विकास विभाग			
दिवाली	300	सारागढी	440
पारोडावाट	340	सुन्दरगढी	520
मोथवा	140	सोनीवाट	400
जवाहर	80	फातपुर	700
		पारोडा	310
		पारोडा	33

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Page 17 photo of José Andrés and Christine Lagarde: IMF

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“Cooking can be nutritious, healthy, and smoke free.”

On the set of the clean cooking-focused television program Shamba Chef, Kenyan celebrity chef Damaris Matunda demonstrates one of her delicious, nutritious recipes. The Alliance launched Shamba Chef this year as part of its global behavior change communications programs to drive demand and use of cleaner, more efficient cookstoves and fuels. Shamba Chef has become the most popular program during its Sunday time slot in Kenya.



GLOBAL ALLIANCE FOR
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