

# SUSTAINABLE HOUSEHOLD ENERGY FOR ALL



Clean Cooking Initiatives  
Supported by the World Bank  
and the Energy Sector Management  
Assistance Program (ESMAP)



Over 3 billion people continue to rely on solid household fuels—biomass and coal—in developing countries, with serious impacts to health and the environment. The latest World Health Organization (WHO) studies indicate that over 4 million people—predominantly women and children—die prematurely due to exposure to indoor air pollution from cookstoves. In recent years, the World Bank has begun to scale up its efforts to address these problems with clean cooking initiatives in developing countries. This renewed effort complements the decades-long work of the World Bank to expand electricity access. The Energy Sector Management Assistance Program (ESMAP) of the World Bank has played a catalytic role in the renewed focus on the clean cooking sector through financial and technical support to partner countries and global analytical work.



The World Bank supports the global Sustainable Energy for All (SE4All) initiative launched by UN Secretary General Ban Ki-moon in 2011, and has made a number of programmatic commitments in support of one of the primary SE4All goals: achieving universal access to modern energy services, including electricity and improved household fuels, by 2030. (The other two goals are doubling the share of renewable energy in the global energy mix, and doubling the rate of improvement in energy efficiency.)

In support of the World Bank's commitment to SE4All, ESMAP has launched a dedicated technical assistance program designed to help 20 countries achieve universal access to modern energy services. This initiative is expected to result in new programs and investments that extend energy access for at least 200 million people by 2030. This program is being implemented through the regional energy units of the World Bank to leverage their country sector expertise and lending programs. ESMAP and World Bank have also been working closely with the Global Alliance for Clean Cookstoves (GACC), which has a goal of reaching 100 million homes with clean and efficient stoves by 2020.

ESMAP's strategic engagement in the clean cooking sector includes:

- helping to broaden the scope of energy sector reform and policy dialog to include household energy access issues;
- producing analytical work to inform dialogue and to support technical assistance and lending operations; and
- helping to design and implement clean cooking interventions in World Bank operations.



## PROGRAM INITIATIVES

### **African Clean Cooking Energy Solutions (ACCES)**

The vision of the ACCES initiative—launched in 2012—is to scale up clean cooking and fuel technologies through a consultative, integrated, enterprise-based approach to sector development, and to alleviate the adverse health, environmental, and socioeconomic impacts of traditional cooking practices in Sub-Saharan Africa. ACCES is a technology-neutral, enterprise-based platform to promote a range of strategies to make clean fuels and technologies accessible and affordable. This market-based approach encompasses quality assurance and technical support, consumer engagement, business development, access to finance, and policy engagement. ACCES has initiated programs in early 2013 in three pilot countries—Uganda, Senegal, and the Democratic Republic of Congo.

### **Biomass Energy Initiative for Africa (BEIA)**

BEIA, launched in 2009, helps develop an enabling environment for sustainable biomass energy management in Sub-Saharan Africa. This includes a small grants program for African nongovernmental organizations, research institutions, universities, and private enterprises to test pilot projects that could be scaled up in World Bank operations. Over the last four years, BEIA has supported several successful improved cookstove pilot projects across Africa, includ-

ing promotion of charcoal briquettes in Tanzania, improved biomass rocket stoves in South Africa, and improved biomass stoves in the Gambia.

### **Scaling up Improved Cookstoves in Bangladesh**

Following the successful execution of the Rural Electrification and Renewable Energy Development (RERED) project in Bangladesh, the World Bank launched a follow-up project that focuses on household energy, with a specific focus on clean cooking solutions for rural households. This project supports and scales up the efforts of a number of non-governmental agencies in Bangladesh through raising awareness of the benefits of clean cooking; research and development to improve product quality; establishing performance standards; facilitating demand and enterprise creation; and capital buy-down grants for biogas digesters. The program aims to help disseminate 1 million clean cookstoves and 20,000 biogas digesters over the next five years.

### **East Asia and Pacific Clean Stove Initiative (EAP CSI)**

EAP CSI focuses on achieving access to modern cooking and heating solutions in the East Asia and Pacific region, particularly through scaled-up access to advanced cooking and heating stoves for poor, primarily rural households. EAP CSI is a multi-country, multi-phase program, with funding support provided by the Australian Agency for International Development (AusAID) and The Asia Sustainable and Alternative Energy Program (ASTAE). ESMAP provides technical and advisory inputs to the program. The initiative includes four country-specific programs—China, Indonesia, Mongolia, and Lao PDR—and a regional forum to promote collaboration, learning, and knowledge-sharing on access to modern energy at the household level.

### **Regional Framework for Clean Cookstove Dissemination in Central America**

With ESMAP support, the World Bank's Latin American and Caribbean region has launched an initiative in Central America to develop a regional dissemination strategy for promoting clean cookstoves. The World Bank is building strategic partnerships with national and regional stakeholders to leverage successful dissemination models.



## ANALYTICAL AND KNOWLEDGE WORK

The World Bank and ESMAP have developed a number of knowledge products in support of the renewed focus on clean cooking and household energy.

These reports and others can be found at <http://www.worldbank.org/reference/> and <http://www.esmap.org/Publications>

### Published in 2011–2012

- \* Household Cookstoves, Environment, Health, and Climate Change | A New Look at an Old Problem
- \* Household Energy Access for Cooking and Heating | Lessons Learned and the Way Forward
- \* Wood-based Biomass Energy Development for Sub-Saharan Africa | Issues and Approaches
- \* One Goal, Two Paths | Achieving Universal Access to Modern Energy in East Asia and the Pacific
- \* What have we learned about Biomass Cookstoves in Central America?
- \* Commercial Woodfuel Production | Experience from Three Locally Controlled Wood Production Models

### Upcoming Reports and Studies in 2013

- \* State of the Global Clean and Improved Cooking Energy Sector (a joint report by GACC and ESMAP/World Bank)
- \* Household Energy for Cooking | Project Design Principles
- \* Landscape Report on Clean and Improved Cooking Energy Sector in Sub-Saharan Africa
- \* Economics of Household Energy—An Analytical Framework
- \* Global Tracking Report for SE4ALL Goals—Access, Renewable Energy, and Energy Efficiency (coordinated by World Bank/ESMAP, International Energy Agency, and World Health Organization)

## ESMAP

The Energy Sector Management Assistance Program (ESMAP) is a global knowledge and technical assistance program administered by the World Bank. It provides analytical and advisory services to low- and middle-income countries to increase their know-how and institutional capacity to achieve environmentally sustainable energy solutions for poverty reduction and economic growth. ESMAP is funded by Australia, Austria, Denmark, Finland, France, Germany, Iceland, Lithuania, the Netherlands, Norway, Sweden, and the United Kingdom, as well as the World Bank.

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