An initiative led by the UN Foundation

Reid Detchon
December 8, 2010
Impact of Cookstoves on Health & Environment

- 3 billion people, in 500 million homes, use dirty, inefficient cookstoves and open fires to cook their food.
- Exposure to cookstove smoke is one of the five worst health risk factors in poor countries.
- Illnesses caused by smoke inhalation kill almost two million women and very young children a year – more than die from malaria.
- Smoke contributes to a range of acute and chronic health impacts such as: pneumonia, cataracts, lung cancer, pulmonary and heart disease, and low birth weight.
Impact of Cookstoves on Health & Environment

• In conflict areas, displaced women/girls are at daily risk of attack as they search for firewood.

• Cookstoves contribute to climate change by emitting greenhouse gases such as methane and carbon dioxide and aerosols like black carbon.

• Stoves often contribute to deforestation by the collection of firewood as well as a range of other local environmental impacts (e.g. erosion, habitat lost, poor air quality, desertification).

• Girls spend as much as 20 hours a week collecting fuel, time that they could spend in school or other more productive economic pursuits.
Health implication of the use of traditional biomass

Based on analysis carried out jointly with the WHO, there are more people dying from smoke from biomass for cooking than from malaria or tuberculosis today. By 2030 over 4000 people will die prematurely every day from the effects of indoor smoke.
New Reasons for Optimism

More complete and rigorous health data is emerging.

Climate change is creating financing, political, and operational opportunities.

Improved stove designs are reaching the market – across a range of price points.

Different business models are starting to reach larger scale.

The field is getting much more rigorous on testing, monitoring, and evaluation.

Western press coverage growing.

New leaders are stepping forward.

PM Emission To Complete WBT (mg)

NOTE: Only 1 PM measurement for 9 stoves
Global Alliance for Clean Cookstoves

A new public-private initiative to scale up clean cookstoves in the developing world

Mission
To save lives, empower women, improve livelihoods, and combat climate change by creating a thriving global market for clean and efficient household cooking solutions

Vision
Universal adoption of clean and efficient cooking solutions

Milestone
100 million homes have adopted clean and efficient stoves and fuels by 2020
Alliance Objectives

• **Save lives** by reducing exposure to cookstove smoke;
• **Empower women** through reduced risk of physical harm and disease and additional time for productive work;
• **Improve livelihoods** by saving money and creating enterprises for stove production and distribution;
• **Combat climate change** by reducing emissions of black carbon and greenhouse gases;
• Build a commercially sustainable clean cookstoves industry; and
• Advance efforts to meet the Millennium Development Goals in poverty, health, gender, and the environment.
Programmatic Focus

- **Advocacy** – raise awareness of the benefits of clean cookstoves.
- **Empirical Base** - achieve greater clarity on health and climate impacts and benefits.
- **Mapping** – map the landscape for stove programs, UN engagement, and donor activities.
- **Market-Based Solutions** – partner with manufacturers and other key stakeholders to identify and respond to the challenges in bringing stoves to market in the developing world.
- **Standards and Labeling** – develop consensus standards and certification, supported by robust field testing, to identify clean and efficient stoves.
- **Financing** – explore innovative mechanisms for financing stove deployment.
Next Steps

• Nine topical Working Groups will identify key priorities
• Draft road map will be shared at global cookstove forum – February in Peru
• Road map will lead to sector-wide priorities report and 10-year strategic plan – September
• Develop a communication strategy
• Execute early action activities – indoor air guidelines, cookstove standards, health exposure study
Universal access to clean cooking facilities annual $3 billion

- Biogas systems: 51%
- LPG stoves: 26%
- Advanced biomass cookstoves: 23%
Founding Partners

- Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH
- German Federal Ministry for Economic Cooperation and Development (BMZ)
- Governments of Norway and Peru
- Morgan Stanley /Morgan Stanley Foundation
- Shell Corporation / Shell Foundation
- SNV: Netherlands Development Organisation
- UN-Energy: UNEP, UNDP, UNIDO
- UN Foundation
- UN High Commissioner for Refugees
- U.S. Agency for International Development
- U.S. Department of Energy
- U.S. Department of Health and Human Services (NIH and CDC)
- U.S. Environmental Protection Agency
- World Health Organization
- World Food Programme
Partnership Opportunities

The Alliance seeks government, private-sector, philanthropic, NGO, academic, and other partners to:

• Provide unrestricted or flexible funding to support the Alliance’s top priorities

• Take a leadership role in specific efforts:
  • Global advocacy strategy
  • Development or capitalization of a large revolving loan fund
  • Global stove standards and certification modalities
  • Applied research efforts in health, climate, and technology
  • On-the-ground action in target geographic markets
What Does Success Look Like in 10 Years’ Time?

• Adoption of 100 million clean and efficient cookstoves by 2020 (equal to roughly 20 percent of the globally affected population)

• Investments to address the issue on par with funding for other public health and climate risks of a similar nature and severity

• Development of a mature global cookstoves industry that can supply clean and efficient cooking solutions – stoves and/or fuels – to the developing world at scale and at low cost

• Demonstration of the health, climate and economic benefits of clean and efficient cooking solutions through development of a robust research, monitoring and evaluation agenda