



GHANA ALLIANCE FOR CLEAN COOKSTOVES

**REGIONAL WORKSHOP ON DEVELOPMENT OF
NATIONAL ACTION PLANS**

August 11-12, 2014

BANJUL, THE GAMBIA



Introduction: The Problem

- On May 9th, 2013, for the first time ever, the carbon dioxide counter on the side of Mauna Loa, the most important scientific instrument on earth, recorded a daily average of above 400 parts per million of emissions in the world.
- * It's a grim landmark -- it's been several million years since CO₂ reached these levels in the atmosphere.
- * 4 Million Deaths a Year: Cookstove smoke kills 1 person every 16 seconds - almost half the world's population still cooks food, boils water, and warms their homes by burning wood, animal and agricultural waste, and coal in open fires or rudimentary cookstoves.

Introduction: The Problem



- Exposure to indoor air pollution (IAP) is responsible for 16,600 deaths per year in Ghana.
- Air pollution from cooking with solid fuel is a key risk factor in childhood acute lower respiratory infections as well as in many other respiratory, cardio-vascular and ocular diseases.
- Smoke from indoor cooking fires kills one person every 16 seconds in the developing world.
- Cookstove emissions result in IAP and other harmful emissions, leading to both acute and chronic health issues among women and children in millions of homes.

Credit: Energy Commission

Introduction: The Problem



The cutting of trees for woodfuel leads to severe deforestation, especially in areas of population disruption and relocation and air pollution.

- * Women's health is damaged by indoor air pollution (smoke, particulates, burns, etc.). These include childhood acute lower respiratory infections, pneumonia, chronic obstructive pulmonary disease (COPD), lung cancer, prenatal mortality, low birth weight, and cataracts.
- * The majority of those exposed to IAP are women and their young children because women rely on natural resources to provide the fuel and energy necessary for energy security and income.

Ghana Context



- The demand for wood puts Ghana's forests under tremendous pressure.
- * Current levels of wood fuel consumption far exceeding forest growth.
- * Charcoal production process contributes heavily to this deforestation and is responsible for high emissions of greenhouse gases such as carbon dioxide and methane
- * Charcoal is produced in simple earth-mound kilns with carbonization efficiency below 20%,

Ghana Context



According to the Energy Commission, Ghana is relatively well endowed with a variety of energy resources:

- * Biomass - cowdung, crop residue, wood, charcoal
 - * Hydrocarbons, hydropower
 - * Solar
 - * Wind.
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- * Woodfuel accounts for over 70% of total primary energy supply.
 - * Woodfuel accounts for about 60% of the final energy demand.
 - * Supply of primary woodfuel in 2009 was estimated to be 20 million tons.
 - * Charcoal production process contributes heavily to this deforestation and is responsible for high emissions of greenhouse gases such as carbon dioxide and methane

Credit: Energy Commission





Intense smoke and fires from wood fuels in Oil Processing







Introduction: GHACCO

The Ghana Alliance for Clean Cookstoves (GHACCO) has been established to serve as a strong stakeholder platform to lead to catalyze a revolution in the cookstoves sector.

Vision

Create a platform to foster the adoption of five (5) million clean cookstoves and fuels by four (4) million households in Ghana by 2020.

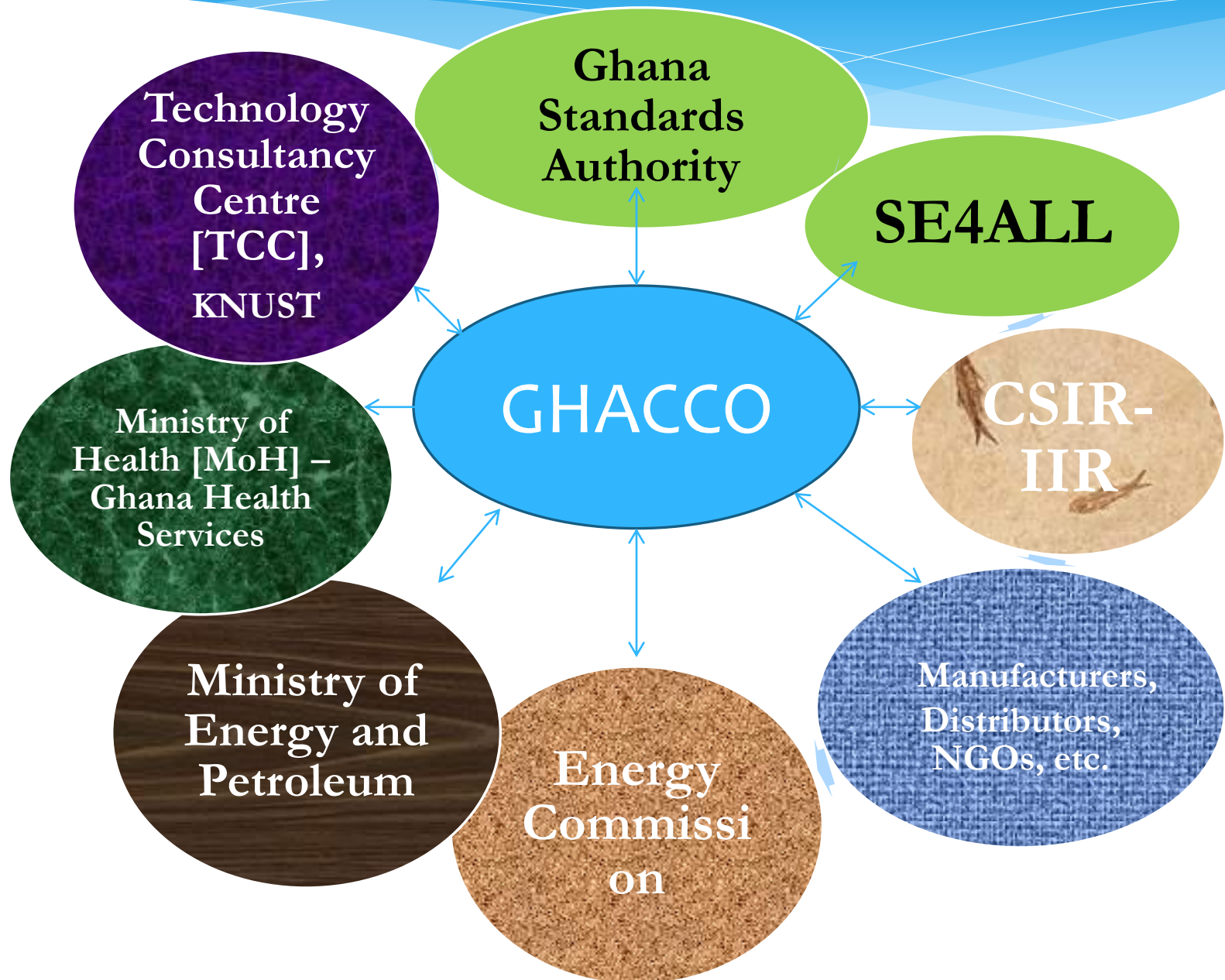
*** Mission**

Promote partnerships among members of the alliance and other actors to ensure synergy in influencing policies and stimulating actions that contribute to a vibrant cookstove industry and sustainable utilization of clean energy and fuels.

Introduction: GHACCO

- * Is registered with the Registrar General's Department as a legal entity
- * An Executive Coordinating Committee, with a Chairperson, a Vice, Financial Secretary and three other Members
- * An Advisory Committee made up of people from the Ministry, gender experts, Energy Commission, Policy and Advocacy, Academia, Manufacturers
- * Has a Constitution and Guidelines
- * Working Groups for the various sectors, e.g. Fundraising, M&E
- * Quarterly General Assembly / Capacity building meetings
- * Committed members serving on various organizations on behalf of GHACCO

Actors/Partners



Companies



COOK
CLEAN

TOYOLA

GYAPA

MAN
&
MAN

ANOMENA

GLOBAL
BAMBOO

OTHERS

Goals/Objectives



- GHACCO's aims to foster the adoption of clean cookstoves and fuels by four (4) million households in Ghana and distributing five (5) million cookstoves by 2020.
- To support the development of a thriving national market for clean cookstoves.
- To create a platform for enhancing capacity development of members and promoting best practices in the cookstoves sector.
- To mobilize resources for actors in the sector to upscale the production and distribution of clean cookstoves.
- To strengthen coordination, innovative ideas, influence policy and enhance information sharing among members, state sector to upscale the production and distribution of clean cookstoves.

Goals/Objectives

- In line with SE4ALL and Ghana Country Action Plan
- Create a collective voice for actors in the clean cookstoves sector.
- Promote awareness and raise the profile of the sector's positive work in Ghana at the international level
- Standardize issues in production, operations, implementation, technical requirements of products quality and services in the cookstoves sector
- Sensitize and educate the citizens on the benefits and importance of using clean cookstoves

Opportunities



- Existing manufacturers and producers
- * Ready market for clean cookstoves
- * Good Government Relations and goodwill from Sector Ministries, especially Ministry of Energy and the Energy Commission assists GHACCO, inviting to join delegations to China, ECREE meetings, etc
- * Willing partners - SNV Ghana support, French Cooperation, UNFCCC, US Embassy, Open Data (to help map out all manufacturers, distributors, etc in the cookstove sector), Forestry Commission

Challenges

The key challenges that have limited acceleration of access to improved cookstoves in Ghana include:

- * Policy, Regulation and Standardization
- * Lack of national policy, strategy and coordination framework for the cookstoves sector;
- * Financing mechanisms alone are not sufficient to foster thriving clean cooking markets in Ghana.
- * There is a need for country-specific mechanisms that fund capacity building and growth of start-up and venture stage companies ineligible for global financing mechanisms like the Spark and Pilot Innovation Funds.

Challenges



Dynamics of the Cookstoves Sector in Ghana

- * Unhealthy competition creating rivalry among producers/manufacturers, Negatively affecting adoption
- * Misrepresentation due to branding competition
- * Capacity Building on Team building and Networking
- * Education on good and appropriate marketing practices

Challenges



* Standards and Regulations for the Sector

- * To address unhealthy competition
- * To achieve sustainability and durability
- * To achieve correct standards
- * To achieve goal of the alliance in conformity with Global Alliance

* Lack of understanding of landscape

- * Creating unhealthy competition
- * Creating fear, skepticism and lack of trust
- * Need to promote information sharing and understanding of aims and objectives of the Alliance.
- * Education, capacity building, team building and networking

* Role of Small players

- * Promote and involve all stakeholders
- * Well explained guidelines and policies of the Alliance

Where are we?

- GHANA-First Country to develop SE4ALL Action Plan;
- * LPG workshop Ghana;
- * Ghana CAP Review Clean Cooking Conference;
- * Regional Testing and knowledge Centre
- * Established Three (3) Institutional cookstoves in Kumasi;
- * Woodstoves Festival;
- * Capacity Building : Business Development

Where are we?

Members scaled up sales has improved; Over 900,000 cookstoves produced and sold in 2013

- * Assisting members to apply for grants from various sources to scale-up their production and sales.
- * Mapping Survey of the Improved Cookstoves Sector - UNDP and SNV funded,
- * Consumer Segmentation Survey- GACC funded the as part of our research strategy and plan of action.
- * Strengthening and building capacity of members, creating awareness, fundraising and partnership creation; (Queens, Heads of Senior High Schools; District Directors of Health, Registered Nurses Association, Ghana Home Economics Association, etc.)

Where are we

- * Opportunity for education of customers and clients on benefits of improved stoves
 - * For adoption and replication
 - * Sharing of information
 - * Entrepreneurship
- * GACC launching the Country Catalytic Grants Program in Ghana and will roll out the program in its focus countries in Phase 2 (2015-2017). There are two key components to the program:
 - * **Investment readiness analysis** to help identify key capacity development and growth initiatives.
 - * **Small grants** will be made to fund catalytic enterprise development and growth initiatives

Where are we?:

- In each market, the Alliance will analyze 6-10 businesses on an annual basis and provide small grants of up to \$100,000 per enterprise.
- * The Government of Ghana has put in place measures to improve Renewable Energy Use and Climate Change Mitigation activities in recent years by playing the lead role in Renewable Energy and Clean Cook Stoves decision making.
- * Ghana government is pushing for 50% of the population to LPG as their primary cooking fuel by 2015.

Member Contributions



- * Chair member of US Dept. of State SE4ALL coordinated General Finance Working Group
- * CookClean represents GHACCO at UNDP Steering Committee
- * Daasgift represented GHACCO at on government - MOEP trip to China
- * Members took part in Survey and donated stoves to GHACCO
- * Various committees for the CAP Conference worked very hard to make it a success.
- * CEESD conducted mapping exercise/Julius member of GSA – ISO team and M&E Task Team
- * GHACCO Coordinating the drawing of a Country M&E Strategy

Improved Cookstoves

Ahibenso
Improved
Stove



Gyapa Improved
Stove



Anomena Manufactured LPG improved Stove

Improved Cookstoves & Fuels



CookClean Improved Stove



Abellon Stove and Briquettes



Toyola Energy Improved Cookstove

Improved Stoves and Fuels



Envirofit Improved Cookstove



Improved Cookstove & briquettes from Asa Initiative



Global Bamboo Briquettes

Regional Testing and Knowledge Centre – CSIR-IIR



Way Forward: GCAP



- Develop policy and legislation for promotion and development of the clean Cookstoves sector
- Pilot advanced biomass Cookstoves for cooking in public institutions, hotels and restaurants with private sector
- Undertake consumer surveys and regional energy needs assessment to map socio-cultural variations and priorities
- Engage end users in product design and marketing and promotional campaigns and messages
- Increase budget support for the clean cooking sector
- Establish website as repository of 'clean' Cookstove technologies and designs, and update regularly

Enterprise Capacity Building



- * Serious Membership Drive
- * Capacity Building of: Artisans, Manufacturers, Distributors, GHACCO, MOEP.
- * Experts in country visits for manufacturers
- * M&E Strategy Development for Ghana
- * Bank educational workshops
- * Awareness Campaign launch
- * Regional Events

Way Forward: Market Development



- * Country specific production and distribution Funding for the key firms
- * National LPG working group support
- * Support for in-country partners programs in institutional stoves, technology development, and renewable clean cooking
- * Gender quiz program

Capacity Building / Research / Advocacy



GHACCO organizations aim to train young women to become “Energy Technicians” to produce, operate and maintain equipment



Research and Advocacy



Women trained to produce clean fuels



THANK YOU

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