



# FACT SHEET Energy Sector - Ghana

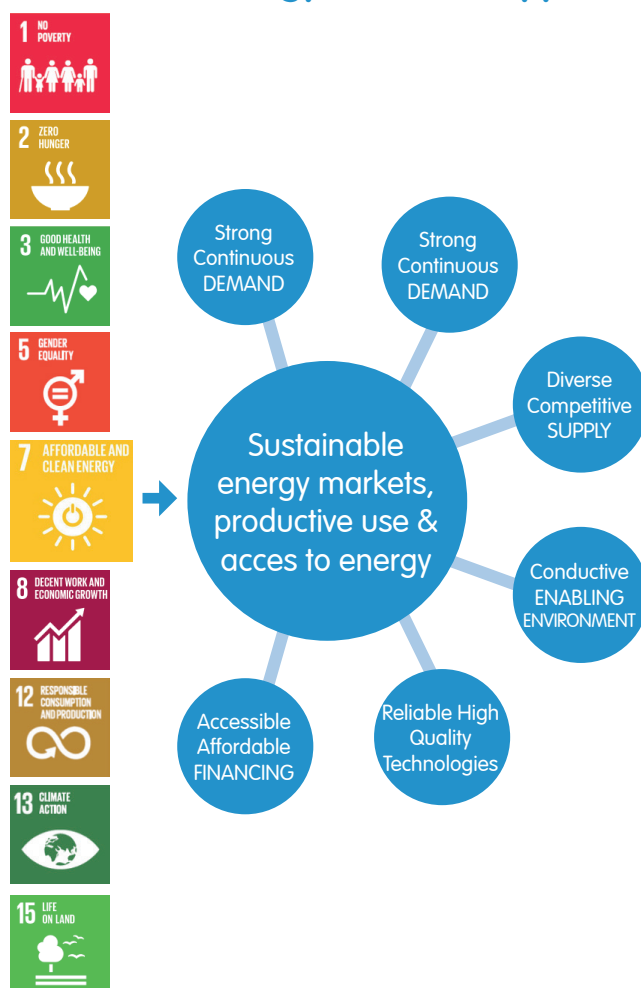


## Who we are

SNV Netherlands Development Organisation is a non-profit international development organisation. We bring more than 50 years of experience in over 25 countries in Africa, Asia and Latin America, and have a team of 1300 professionals and specialists worldwide. We make a lasting difference in the lives of people living in poverty, helping them to raise incomes and access basic services. Driven by the Sustainable Development Goals, we are dedicated to a society in which all people are free to pursue their own sustainable development with no one left behind. This commitment to equity directs us to focus on gender and youth. Our work focusses on three (interconnected) sectors: agriculture, energy and WASH. This Fact Sheet focusses on Energy. SNV has worked in Ghana since 1992, implementing a wide range of energy projects.



## Sustainable Energy Markets - Approach



## Brief of the Energy Sector in Ghana

In Ghana, 33% of the rural population still lack access to electricity<sup>1</sup>. More than 76% of the population is reliant on biomass, mainly firewood and charcoal, for cooking and heating<sup>2</sup>. This huge dependency on biomass and unsustainable fuel wood harvesting results in household air pollution, leading to the destruction of forested ecosystems and increases climate change-related risks. Poor households, and especially women and children, in rural communities, are the worst affected. For example, in Ghana household air pollution accounts for about 18,000 deaths annually<sup>3</sup>. While the government of Ghana is committed to SDG 7 and acknowledges the impact of a lack of modern energy services on poverty, health and education, economic development and climate change, lack of adequate policies, recurring fiscal challenges and energy sector debts will hinder the attainment of universal access to modern energy services by 2030. The disproportionate effects of energy poverty are predominant in poor households in rural and peri-urban communities. But even where there is access, limited utilisation for productive uses by households and businesses have hampered the potential for increased income generation and poverty reduction. Thus, facilitating access to productive use enablers such as skills, markets and finance, in inclusive and profitable businesses remain crucial, and therefore define our approach.

## What we do

Our local know-how services include:

- Kick-starting markets to sustain themselves using our sustainable market development approach.
- Partnering with financial institutions in testing finance models for the uptake of end-use energy technologies.
- Advocating for policy and practice changes with government agencies, civil society and the private sector on the basis of evidence from our programmes and research.
- Pioneering energy technology development in energy efficiency and productive uses of energy in selected agricultural value chains.
- Promoting sustainable fuels development
- Enabling best practices and business advisory in inclusive businesses.
- SNV has a strong track-record in results-based financing by which we maximise value for money.

## Our impact

We aim to achieve direct results for people living in poverty through systems change. By facilitating progress in market creation, strengthening productive uses in value change, gender equality, climate change mitigation, our projects have improved the lives of hundreds of thousands of people across the country, with our contribution to job creation, income growth and the sustainable development goals generally. A snapshot of our outputs and impacts includes:

- Deployed behavioural change communication to propel the adoption of clean and improved cooking technologies in over 300 communities across five districts from 2016 to 2019 under the V4CP project.
- Facilitated the adoption of clean and improved cooking systems in over 6,000 poor households in peri-urban and rural communities across the country, impacting over 24,000 lives under the Energy Solutions for Africa and the V4CP projects between 2014 and 2019.
- Promoted the replacement of kerosene wick lanterns with about 2,500 off-grid pico-solar systems for lighting under i.e. the Energy Solutions for Africa project, impacting some 10,000 lives between 2008 and 2010.
- Led technology innovation, development and adoption of over 2,000 improved institutional stoves in agricultural value chains, including fish smoking, rice parboiling, gari roasting, pito brewing and shea butter processing, under i.e. our the EPGAP and SFMP projects, impacting over 70,000 lives between 2013 to 2019.
- Supported the development of about 100 green businesses across energy efficiency, solar energy, domestic waste management, climate smart agriculture and water purification and management systems under i.e., the Ghana Climate Innovation Centre Project, between 2014 and 2019.
- Established partnerships with about 10 financial institutions including Amuga, Microfin, BACSSOD and Bonzali Rural Bank, with over 40 branches across Ghana, developing and implementing different financing models, and leveraging financing for the adoption of different energy businesses and enduser technologies.
- Championed clean cooking sector strengthening and coordination efforts by facilitating the establishment of the Ghana Alliance for Clean Cookstoves and holding strategic sector dialogues; woodstoves festival, clean cooking policy dialogue, and clean cooking forum among others. Our efforts here have been focused on technology innovation and capacity development, enabling policies and regulations, demand creation and fund mobilisation.
- Promoted the establishment of several hectares of wood fuel and mangrove plantations in the Northern and Coastal areas of Ghana between 2013 and 2014.

## Our track record

At SNV, we cooperate with multiple stakeholders in implementing programmes in clean and improved institutional and household cookstoves, sustainable fuels, mini-grid based electrification, energy efficiency, solar energy systems, biogas, gasifiers and the incubation of cleantech businesses. Our donors and partners have included the Dutch Ministry of Foreign Affairs, Netherlands Enterprise Agency, the World Bank, USAID, UKAID, GIZ, Bill and Melinda Gates foundation, civil society organisations and various government ministries and agencies.

<sup>1</sup> IEA, World Bank et al. 2018. Tracking Sustainable Development Goal 7. The energy progress report 2018.

<sup>2</sup> Ghana Statistical Service. 2019. Ghana Living Standards Survey 7

<sup>3</sup> Clean Cooking Alliance. 2019. Country profiles - Ghana. retrieved from <https://www.cleancookingalliance.org/country-profiles/focus-countries/1-ghana.html>



## Areas of Intervention

### Improved cookstoves and sustainable fuels

- Market development for clean and improved cookstoves for domestic use in collaboration with the Ghana Alliance for Clean Cookstoves (GHACCO) and the Organisation for Indigenous Initiatives (ORGIIS), under for example, the Voice for Change Partnership Programme (V4CP) and the Strategic Support for Clean Cooking Sector Project where we create demand, enable policies and promote consumer finance models.
- Market-based promotion of improved cookstoves for productive uses using innovative financing schemes under i.e., the Energy Poverty and Gender in Agro-processing project (EPGAP), within rice, shea, cassava value chains in partnership with cooperatives and financial institutions.

### Off-grid Solar

- Tested the viability of different business models for the deployment of pico-solar systems for lighting and cooking under the Sustainable Energy Solutions for Africa projects in partnership with New Energy, the Kumasi Institute of Technology, Energy and Environment (KITE), DENG Limited, Philips Lighting, Rural Energy Foundation, Ghana Association of Microfinance Companies, Hunger Project Ghana and World Vision Ghana among others.
- Promoted mini-grid based electrification for off-grid grid communities using our evidence based advocacy

approach under the Voice for Change Partnership Programme, in partnership with the Centre for Energy, Environment and Sustainable Development.

### Green Technology Promotions (Biogas, Gasifiers and other Clean-Tech innovations)

- Biomass gasification technology development and training in partnership with the Technology Consultancy Centre of the Kwame Nkrumah University Science and Technology, through the construction of a 10 kW capacity charcoal ferro cement gasifier.
- Promotion of institutional biogas with faecal sludge through the construction of a 40m<sup>3</sup> 3kw biogas plant at the Kumasi Institute of Tropical Agriculture.
- Cooperated in the delivery of a 120kW capacity biomass waste-to-energy gasification plant in support of the establishment of a model gari processing centre in a consortium with the Ministry of Agriculture and the University of Greenwich – UK, under the Increasing Performance of the Cassava Industry in the West and Central Africa Project.
- Promoted the development and adoption of improved charcoal carbonation and kilns technologies, low cost production of charcoal briquettes (from Kenaf, Palm kernels and faecal sludge) and facilitated fuelwood and mangrove plantations in partnership with the KITE and ORGIIS, under i.e., the Integrated Biomass Project.





## Donors and partners



SNV is a not-for-profit international development organisation that makes a lasting difference in the lives of people living in poverty by helping them raise incomes and access basic services. We aim for premium quality and focus on only three sectors: agriculture, energy and water, sanitation and hygiene (WASH). With a long-term, local presence in over 25 countries in Asia, Africa and Latin America, we know how governments work and how relationships are built. Implementing our mission exclusively through project financing requires us to work efficiently and invest in operational excellence every day. Our team of more than 1,300 staff is the backbone of SNV.

Visit for more detailed information [www.snv.org](http://www.snv.org) or contact:

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