

THE STORY OF ENERGY ACCESS

HOW ENERGIA AND HIVOS WORK WITH PARTNERS TO
EFFECT GLOBAL CHANGE BY FOCUSING ON LOCAL,
SUSTAINABLE SOLUTIONS



implemented by



SUSTAINABLE ENERGY FOR ALL

When a single mother in Indonesia was struggling to make ends meet, she discovered the economic power of sustainable energy.

Thanks to training she received as part of Kopernik's Wonder Women initiative, she became an energy entrepreneur and used her earnings to build a home on Lembata Island, where she lives with her two children.

In Ghana, the introduction of improved cookstoves transformed the lives of the women working in the Tungteiya Shea Butter Association. With help from SNV, 475 women in 11 communities halved their use of fuelwood, increased their profits and improved their quality of life.

In Guatemala, women like Matilia Cedillo have transformed their lives and those of people around them with solar power. Matilia started as a volunteer and now, as a nonprofit employee, she has helped villagers in 50 communities understand the benefits of adopting sustainable energy solutions, with support from ACCESE and Hivos.



SNV works globally in part to help expand access to clean, efficient cookstoves.

Globally 1.3 billion people lack access to energy and 2.6 billion people rely on unhealthy biomass for cooking and heating

Sustainable Energy for All (SE4All) was created in 2011 by the United Nations to help make sustainable energy accessible globally by 2030



As part of the Wonder Women initiative, Kopernik is training women to become energy entrepreneurs in remote areas of Indonesia.

The projects in this booklet work every angle to solve the issue of energy access. They range from off-grid "first mile" communities to government buildings in capital cities where energy legislation is passed. They empower female energy entrepreneurs, introduce technical innovation, expand supply chains, and work with government and the private sector.

Access to sustainable energy leads to better health outcomes, higher profits, and happier people. These projects strengthen communities and benefit the environment. Many also integrate business strategies, providing economic opportunities to those whose options are few. In short, the investment is minimal and the outcome is massive.

With projects like these, ENERGIA, Hivos and their civil society organisation (CSO) partners are working towards the goals of Sustainable Energy for All (SE4All) and the new Sustainable Development Goals.

THE PROJECTS:

ACCESE (Alianza Centroamericana para la Sostenibilidad Energética)

A Regional Energy Network in Central America

Center for Rural Technology- Nepal (CRT/N)

Promoting Women-led Enterprises for Energy Access and Local Production
(ENERGIA WE Programme partner)

GVEP

Energy Opportunities for Women in Senegal
(ENERGIA WE Programme partner)

Hivos' Sumba Iconic Island Project

a multi-actor programme

Kenya Bureau of Standards (KEBS)

(in partnership with Hivos East Africa)
Development of Biogas Standards

Kopernik

Scaling up Clean Energy Technology Through Women's Empowerment in Eastern Indonesia
(ENERGIA WE Programme partner)

Practical Action Eastern Africa

Women in Energy Enterprises in Kenya Project
(ENERGIA WE Programme partner)

SNV

Energy, Poverty, and Gender in Agro Processing (EPGAP) Project

Solar Sister

A Green Energy Revolution Powered by Women's Enterprise
(ENERGIA WE Programme partner)

ZERO

(in partnership with Hivos Southern Africa)
Influencing National Energy Policy



In Senegal, GVEP provides female entrepreneurs access to improved cooking technologies, mentorship and information on how to integrate sustainable energy technologies into their businesses. Their support helps women grow their enterprises and strengthen their communities.

ACCESS TO ENERGY GLOBALLY



ACCESE helps teach communities in Central America about renewable energy technology. Once reliable power arrives, the doors open to other technologies, like this information center in Guatemala.

How can a country truly develop when it lacks access to energy? This is a problem ENERGIA and Hivos are dedicated to solving.

It starts with empowerment. In 2014, EN-ERGIA launched the Women's Economic Empowerment (WE) Programme to enable 3,000 female entrepreneurs and bring much needed energy technologies and products to 2,000,000 consumers in communities without access to reliable energy. Over the next four years, ENERGIA partners will help develop and support microenterprises and small businesses led by women in Asia and Africa. In addition to helping women become change agents in the energy sector, WE Programme partners are engaged in national advocacy efforts to ensure that gender perspectives remain part of the global energy access conversation.

Globally, energy demand will rise 30% by 2030



Hadija, a Solar Sister Entrepreneur in Tanzania, takes notes on recent sales by the light of her solar lamp. Before she started selling solar products, her small farming village had little access to modern electricity technology and relied on kerosene and candles for illumination.

Training is only one part of the equation, however. That's why Hivos works with its CSO partners to tackle persistent obstacles blocking the adoption of renewable energy technologies, such as legislation, community perception and the absence of real-world business models. By


creating and showcasing effective projects, Hivos seeks to inspire CSOs, and involve relevant stakeholders in government, the private sector and the media.

Lack of access to energy is a complex issue. Through advocacy, policy, innovation, entrepreneurship and education, ENERGIA and Hivos are working to close the access gap and move towards the SE4All goal of universal energy access by 2030.

In 4 years time, ENERGIA's WE Programme partners will reach over 2,000,000 people with sustainable energy solutions.



ACCESE-trained staff of local CSO's gain trust of the local communities and help the communities adopt renewable energy technology that works for them.



In Kenya, Practical Action and SCODE are helping female entrepreneurs access clean energy technology, grow their capacity and strengthen their businesses.




On the island of Sumba in Indonesia, the community is helping to make decisions on what clean energy technologies work best for their lives. Hivos is working with local stakeholders on the island to achieve 100% reliance on clean energy by 2025.

There is no one-size-fits-all solution to energy access.

Hence the dependence on local CSOs, which are diverse and nimble, able to adapt to geographic and societal differences in their regions.

The answers in one country, or within one community, do not necessarily translate to another. This is why working with local CSO partners, people who understand their communities at an intimate level, is key. CSOs share their



knowledge of the community with the government and private sector, so all stakeholders can work in concert. In short, community engagement increases the chance of success and likelihood of adoption. In the following projects, key participants are accountable decision-makers; they know the benefits of renewable energy for their incomes, their health and their communities.

ENTREPRENEURSHIP



Projects like Solar Sister in Tanzania, CRT/N in Nepal, and Kopernik in Indonesia provide opportunities for women to become energy entrepreneurs. Women start their own businesses, becoming leaders who improve their communities by bringing affordable lighting, cooking and water purifying technologies. They help their neighbors save money in the long run and reduce detrimental health effects caused by inefficient cookstoves and lighting products.

Projects like Practical Action Eastern Africa, SNV's efforts in Ghana and GVEP's efforts in Senegal are helping to equip existing female entrepreneurs with the energy tools and knowledge they need to grow their businesses. With this acceleration, they're becoming stronger business women, and are able to have a greater impact on their communities.

While these projects focus on female entrepreneurs, Hivos and their partners support male entrepreneurs as well.

An estimated 4 million people die each year as a result of indoor air pollution. That's compared to 4 million global fatalities from HIV/AIDS, malaria and tuberculosis combined.

top: The CRT/N staff has created a three level training program for female energy entrepreneurs. Their WEE-Nepal project has a goal of training 500 women over three years.

second: In Senegal, GVEP hopes their work with female energy entrepreneurs will bring access to improved energy products to 400,000 people.

third: Kopernik Wonder Women energy entrepreneurs in Indonesia bring clean energy products to their customers. In Indonesia, 80 million people are without access to modern energy.

fourth: SNV's EPGAP project is working in Ghana to bring improved cookstove technology to women-led industries. The technologies cut detrimental health effects of traditional stoves and cut the fuel costs for women by as much as half.

bottom: Solar Sister entrepreneurs are working to bring clean energy technology to people in Tanzania where the majority of the rural population lacks access to modern energy services.

CHANGING POLICY

While some organisations work at the community level, others focus on connecting the private sector and the government in order to get everyone on the same page. By rewriting laws and influencing policy decisions, the case can be made for governments to support renewable energy projects on a national scale. Once governments say yes to sustainable energy solutions, private sector investments often follow. For example, the Kenya Bureau of Standards (KEBS) is working closely with Hivos to develop the country's first ever biogas standards. By establishing standards, the potential to build trust with consumers is great; with quality control measures in place, more people are likely to adopt these goods and services.

To meet SE4All goals of improving sustainable technology, global investment would need to be tripled.



above: Kenya currently has no renewable energy industry standards. Hivos is helping to change that by assisting in establishing national standards for the biogas industry.



above: The Hivos Sumba Iconic Island Project is transitioning an entire island community in Indonesia to 100% renewable energy. The project has inspired policy makers to try to replicate the model on other islands.

ADVANCING TECHNOLOGY AND EXPANDING SUPPLY CHAINS



above: Distrust of biogas technology has led to a lack of adoption in the marketplace. KEBS & Hivos hope that establishing standards for biogas will help increase customer trust and fuel an uptick in the use of biogas products.

Multiple projects around the world are putting technological advances to the test. In Indonesia, as part of the Sumba Iconic Island Project, Hivos is converting a remote, off-grid island to 100% reliance on renewable energy sources. In Nepal, CRT/N's work with improved cookstoves (ICS) is creating a market for sustainable energy products.



above: The CRT/N WEE-Nepal program connects newly trained, improved cookstove entrepreneurs to manufacturers who can supply them directly with products. With these connections, they hope to create an established supply chain for ICS technology.

Creating market stability ensures consumers can access these new products across the country and gives entrepreneurs a reliable pipeline of products to feed the demand. In Ghana, SNV is growing and harvesting sustainable fuelwood for female entrepreneurs so they can reduce the impact of harvesting native plants and create a supply chain that is both sustainable and affordable.

ENGAGING IN ADVOCACY



Matilia Cedillo works with Semillas del Sol in Guatemala helping to educate and inspire villages to adopt renewable energy technology. Semillas del Sol is part of the ACCESE Network.

In countries around the world, CSOs are working locally and nationally to raise awareness of sustainable energy. Some, like ACCESE in Central America, and ZERO with Hivos in Zimbabwe and South Africa, use a combination of research, education and information sharing to show journalists and nonprofits about the landscape of renewable energy— how it works, the benefits of and barriers to adoption, legislation, and power of existing fossil fuel parties. The hope is that community, government and private sector projects will be more likely to incorporate sustainable energy into their action plans and that the media will champion their cause.

As part of their involvement in ENERGIA's WE programme, CRT/N, GVEP, Kopernik, Practical Action and Solar Sister are working on national advocacy efforts in Nepal, Senegal, Indonesia, Kenya and Tanzania respectively. This work includes producing multimedia awareness campaigns, attending national and international energy-related events, meeting with government officials and influencing their respective SE4All country action agendas. In Africa and Asia, WE partners are influencing the understanding of energy access and women's role in expanding sustainable energy at every level.

ENERGIA

Through the WE programme, ENERGIA's partners help women become change makers in their communities. Life has changed when the sun goes down: students can study by solar light; improved cookstoves emit fewer fumes and create better health outcomes; families are able to save money they would have spent on kerosene lanterns and time spent collecting fuelwood; and the environment gets a rest.

HIVOS

Hivos and their partners are changing minds on the street and in the legislature with their policy work. Through various education initiatives, they're helping the media and local CSOs be better informed. Through examples like the Sumba Iconic Island Project, they are showing that renewable energy isn't tomorrow's dream but today's reality.



HIVOS partnered with the community, local government and the private sector on the Sumba Iconic Island project in Indonesia. This coalition ensures all shareholders are engaged as decision makers in the plan to transform the island's energy to 100% renewable sources by 2025.

Civil Society Organisations have a solid understanding of what will and won't work in their communities, and they're able to witness the changes brought by these programs. By working with CSO partners on the ground, Hivos, ENERGIA and their global colleagues are working toward a more sustainable planet, where no one's life is hindered by lack of access to energy.

BRIGHTER FUTURE FOR ALL



The purpose of these projects is to work toward the goals of SE4All and the vision of the Sustainable Development Goals announced in 2015: to ensure access to affordable, reliable, sustainable, modern energy for all. In fact, these projects are uniquely positioned to help pursue that agenda, yet they don't stop there. They help reduce poverty, improve health, empower women, provide productive employment, foster innovation, reduce inequality, create more sustainable communities, reduce consumption, combat climate change and strengthen global partnerships all in the pursuit of a more just and peaceful future for humanity. All of these outcomes are defined in the Sustainable Development Goals. Each of these objectives are furthered by access to energy. Every organisation championed here knows that with increased access to sustainable energy, a door to a brighter future is open to everyone.

Globally, more than 2.6 billion people live without access to modern energy services. Organisations like ACCESE are helping to educate these communities on clean energy solutions.



Collecting fuelwood can be time consuming and traditional cookstoves are inefficient. GVEP and others are helping to expand access to improved cookstove technology which helps families to save time and income.

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BACK PAGE ONLY. DO NOT PRINT THIS OR
CYAN LINES BELOW

FOR MORE INFORMATION ON THESE PROJECTS



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