



## Energising Development Partnership – EnDev

### Country Project Malawi

Country	Malawi
Technology	solar, improved cookstoves
EnDev 2	12/2012 – 12/2016
Budget	€ 3,000,000
Partners	Ministry of Energy, MAEVE, stove producers, private sector, PR and marketing specialists, a national network of NGOs active in stove producer training
Objective	Some 625,000 people, mainly in urban and peri-urban areas, have access to improved energy for cooking using the 'Chitetezo Mbaula' stove. The National Cookstove Taskforce, chaired by the Ministry of Energy, has assumed coordination of efforts to promote the use of the new cooking stoves. 100,000 people in rural and peri-urban areas have access to modern lighting through small solar systems.
Achieved until 12/2014	93,654 people in urban areas of Malawi have gained access to modern cooking energy as a result of the project.

### Background

With a relatively small surface area, but a large and growing population that is heavily dependent on fuel wood, Malawi is increasingly subject to energy stress. Over 90% of the country's total demand for energy is met with firewood and charcoal. The latter is produced mainly from live trees in an unsustainable manner. The increasing population growth is therefore exerting significant pressure on the country's forest resources, leading to forest degradation and a deforestation rate of 2.6% per year. Firewood is mainly used in open, three-

stone fireplaces, even in urban areas. This is very inefficient and wastes precious forest resources. Moreover, open fires and smoke are a health risk, mainly for women and children.

Electricity accounts for less than 2.3% of the total national energy demand, with fewer than seven per cent of the 14 million-strong population having a connection to the electricity grid. Compared to its neighbouring countries, Malawi has only a nascent market for solar lanterns and small solar lighting kits. It is estimated that 62,000 picoPV systems have been sold here, which represents just one per cent of the potential total market. Most households therefore still rely on expensive, dangerous and environmentally unsustainable lighting sources, like kerosene and dry-cell batteries.

### Project Approach

EnDev Malawi is working to promote a financially sustainable market for improved cooking stoves in urban and peri-urban areas. To do this, it is carrying out measures to strengthen both the supply and the demand side. Demand-side activities focus on generating greater consumer interest in the ceramic, wood-burning stove known locally as the 'Chitetezo Mbaula' stove. On the supply side, EnDev Malawi through its NGO partners provides training and skills for the craftsmen who produce the stove. A local non-governmental organisation, MAEVE, connects production to demand by liaising between the small-scale stove producers and large urban sales outlets such as supermarkets and filling stations.

The Government of Malawi has launched an initiative to get as many as two million energy-efficient stoves installed in

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Malawian homes by 2020. EnDev Malawi is advising the National Cookstove Taskforce on the implementation of this initiative.



*Stove sales on a busy Lilongwe market*

In a separate component, EnDev is running a national awareness campaign to support the wider take-up of high quality solar lighting products (solar lanterns and lighting kits), with a target of reaching 100,000 people, mainly in rural areas.

## Impacts

By December 2014, nearly 93,654 people had gained access to improved forms of energy for cooking, as a result of the project. The number of stoves manufactured by around 50 producer groups and subsequently sold through sales channels introduced by EnDev has risen to 8,000 each month. The stove-making business has created jobs for nearly 300 women and 100 men.

## Lessons Learnt & Outlook

Recently EnDev has started to also promote small solar appliances for lighting and phone charging in cooperation with the private sector. The stove component is building on the experience gained in carrying out the successful marketing campaign for cookstoves. After finalising consultations with solar distributors, a national marketing campaign for high quality solar products will start rolling out in early 2015.

## About Energising Development

*Energising Development (EnDev) is an energy access partnership programme currently financed by six donor countries – the Netherlands, Germany, Norway, Australia, the United Kingdom and Switzerland – which have provided EUR 263.26 million.*

*The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH acts as a lead agency for the coordination and implementation of the programme and jointly coordinates with the Netherlands Enterprise Agency (RVO) on the global level, as well as other implementation partners on the country level.*

*EnDev promotes sustainable access to modern energy services that meet the needs of the poor – long-lasting, affordable, and appreciated by users. By 2019, access for a minimum 18 million people worldwide shall be achieved. The bottom-up approach contributes to creating positive economic, social and environmental impacts. Since its initiation in 2005, EnDev has attained a prominent position in the international energy access debate. EnDev is one of the first outcome-based and performance-based programmes in the energy sector; as such, EnDev pioneers innovative approaches, develops new markets for pro-poor energy access and scales up successful interventions. Currently, EnDev is active in 24 developing countries while 50% of the funds are targeted at the least developed countries. A broad spectrum of technologies and a variety of project concepts and instruments are applied, corresponding to individual country situations. A thorough monitoring system measures the results on a permanent basis: by December 2014, a total of 13.9 million people, 16,000 social institutions, and 30,500 small enterprises have gained sustainable access to modern energy services.*

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