

Country Profile

Tanzania

January 2010

Start date microsolar: June 2008

Start date macrosolar: January 2009



Map of Tanzania¹

★ SolarAid project area

Country Summary

The population of Tanzania in 2008 was estimated by the World Bank at 42.5 million² with just 25% of the population living in urban areas³ and 35.7% living below the national poverty line⁴. The remaining 75% of the population living in rural areas do not have access to the electricity grid and depend on wood and charcoal from natural forest and managed plantations⁵ for fuel. Tanzania ranks 151 out of 182 in the UNDP Human Development Index⁶ and 120 out of 183 on the 'Ease of Doing Business' scale⁷.

Microsolar activity started in 2007 with an informal microsolar project at Neema Crafts, Iringa, established by John Keane, who was then a volunteer. Funding was then secured from Man Group Charitable Trust for macro and microsolar work, which started in late 2008. The macrosolar work is extensive in Tanzania where much of SolarAid's approach has been developed and trialed. Microsolar is less established, however a strong micro-franchise team is now in place and activities are expected to scale up in 2010.

The office is located in Dar es Salaam. Macrosolar installations have been successfully completed in Mtwara, Pwani and Iringa regions.

Current Model

There is huge interest in the macrosolar work in Tanzania which has attracted a multitude of additional funders and international media attention. The current model requires the school or clinic to manage and repair the system, and ensure financial sustainability through income generating activities. The team is also busy preparing to scale up microsolar work in Dar es Salaam, Pwani and Iringa regions.

Key areas of the project⁸

The aim of the project is to achieve self-sustainability by generating income through a micro-business approach and also by generating carbon credits that can be sold on the carbon markets in order to generate more income. The project focuses on four key areas:

- The microsolar enterprise development: establishing a network of micro-solar franchisees and kiosks, to sell and repair affordable solar products.
- The solar education project: to set in motion a wide impacting programme working with school children and teachers to instil an awareness, understanding and commitment to the utilisation of renewable energy sources.
- The solar school installation project: to install 300 W systems on 108 schools over four years.
- The health centre project: to install solar systems on 40 health clinics over four years.
- The community centre project: to install solar systems on 15 community centres over four years.

Main Partners

SIDO: (Small Industries Development Organisation) supports the development of small businesses in Tanzania.

VSO: the volunteer agency, for recruiting international solar specialists.

TASEA: the Tanzanian Solar Energy Association, for the schools programme.

In-Country Staff Contacts

Mason Huffine, Operations Manager.

Claire Pederson, Micro-franchise Coordinator (Volunteer).

David Fryer, Volunteer Macrosolar Coordinator.

Stephen Chimallo, Macrosolar Coordinator

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• Achievements

Microsolar

Indicator	Total Nr.
People trained to date (Inc. technical, sales and assembly) :	48
Active Entrepreneurs:	16
Products sold in 2009:	717
End User Beneficiaries ⁹ :	4087
Carbon Saving (July 08 to Dec 09):	23.5 tonnes

Macrosolar

Indicator	Total Nr.
Installations in schools completed (May/June 2009):	21 (20 secondary, 1 primary school)
Routine maintenance people trained to date:	80
Beneficiaries from schools (Jan- Jun 2009):	8301 (8061 pupils, 149 teachers 91 other staff)
Sites identified:	6

• Impact of the Macrosolar programme

Indicators (Data to January 2010) ¹⁰	Data
Average income from IGA per school:	6,575 Tsh/= using solar products.
Average reduction in kerosene usage per school:	35.33 Litres per week.
Average saving on energy spending per school:	15,156.67 Tsh/= per week.
Increase in school opening hours:	4.25 hours Normal schedule, 4 hours Other activities.
Main impacts Health/ education:	Reduction in cases of eye irritation, cough/sore throat and burns.

Financial information

Funders	Total Budget Allocated
Man Group	£ 1,098,710.04
USAID/Tanzania	£ 498,192
Daey Ouwens	£ 361,455

¹ https://www.cia.gov/library/publications/the-world-factbook/maps/maptemplate_tz.html

² <http://web.worldbank.org/WBSITE/EXTERNAL/COUNTRIES/AFRICAEXT/TANZANIAEXTN/0,,menuPK:287361~pagePK:141132~piPK:141109~theSitePK:258799,00.html>

³ <https://www.cia.gov/library/publications/the-world-factbook/geos/tz.html>

⁴ http://hdrstats.undp.org/en/countries/data_sheets/cty_ds_TZA.html

⁵ Agreement between SolarAid and USAID/Tanzania, PPA CA ALLIANCE - 621-A-00-09-00004-00

⁶ <http://hdr.undp.org/en/statistics/>

⁷ <http://www.doingbusiness.org/ExploreEconomies/?economyid=101>

⁸ Extracted from SolarAid summary proposal for the Man Group Charitable Trust for a programme in Tanzania, document.

⁹ Assuming 5.7 people per household according to the "Integrated Labour Force Survey, 2000/01 – Analytical Report". See: www.tanzania.go.tz/jifs%5CChapter%2010.doc

¹⁰ The entire indicators are a comparison between 5 schools which are reported the SBL1 and SFUS1 See SFUS1Tz.