

Project Developer
Phaesun GmbH

Phaesun is a German company operating in the field of renewable energy with a focus on rural electrification, solar water supply, and the use of off-grid renewable energies for industrial applications and the leisure market.



SELFCHILL ZAMBIA AND TANZANIA



This project aims to introduce intelligent solar-powered cooling solutions to improve food safety, reduce waste and increase income among small-scale farmers in Zambia and Tanzania. Phaesun will install cooling systems based on the SelfChill concept to cool dairy (milk tank), agricultural products (cold room) and fish (ice maker). These demonstration units will provide services to agricultural cooperatives through a PAYG system. The project also aims to sell smaller cooling systems and units to local smallholder farmers. EEP financing will enable Phaesun to establish local assembly lines and provide technical training through partners to develop local capacity in design, assembly, installation and maintenance of solar cooling solutions.

Total Project Budget
EUR 586 060

EEP Africa Financing
EUR 410 242

Project Partners
Solar Cooling
Engineering UG,
Fountain Gate Crafts &
Trades School,
id Solar Solutions Ltd,
RESCO Ltd

Type
Demonstration project
Stand-alone

Project Code
REG16607


Technology
Solar PV

Location
Tanzania, Zambia



Outcome and Impact

The project will provide access to chilling services to over 160 smallholder farmers, ensuring less waste due to spoilage, better agricultural efficiency and improved food safety. The systems will generate 73 MWh of clean energy per year and reduce GHG emissions by at least 52 tCO_{2e}. The project will provide training and create local jobs, significantly contributing to capacity building in the clean energy sector in Tanzania and Zambia.

EEP Africa is a financing facility for early-stage clean energy projects in Southern and East Africa. It is hosted and managed by the Nordic Development Fund (NDF) with funding from Austria, Finland and NDF.