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.

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 tCO₂e. The project will provide training and create local jobs, significantly contributing to capacity building in the clean energy sector in Tanzania and Zambia.