Farmers across Africa are confronted with many challenges related to water scarcity, food insecurity and climate change. Their livelihoods are increasingly threatened by erratic rainfall patterns, droughts, extreme weather conditions, and rising fuel prices.

To tackle these challenges, solar-powered irrigation systems (SPIS) serve as a promising solution to improve access to water for farmers and enhance overall agricultural productivity. It has the potential to positively impact up to 5.4 million farmers in Sub-Saharan Africa, and to stabilize, increase and diversify production during the year, leading to greater economic stability, food security and improved nutrition for local communities.

**SUN4WATER: SUSTAINABLY INTEGRATING SOLAR-POWERED IRRIGATION SYSTEMS**

Sun4Water is a program implemented by the Deutsche Gesellschaft für internationale Zusammenarbeit (GIZ) and financed by the German Climate and Technology Initiative (DKTI) through the German Federal Ministry for Economic Cooperation and Development (BMZ). It contributes to the joint international, multi-donor initiative Water and Energy for Food (WE4F).

The Sun4Water program promotes the development and dissemination of climate-friendly, energy- and water-efficient solar-powered irrigation systems (SPIS) and through its holistic, multi-scale approach:

1. Contributes to increasing agricultural productivity and food security, strengthening resilience of smallholder farmers in the agri-food value chain.
2. Supports MSMEs through capacity building, business development, improved access to finance and cross sectoral dialogues.
3. Promotes sustainable use of SPIS technologies and mainstreams them in political frameworks and processes.
HOW SUN4WATER WORKS

Sun4Water aims to implement capacity development activities at the micro, meso and macro levels to achieve a successful and sustainable dissemination of SPIS.

The strategy applies a holistic, multiscale approach which addresses educational institutions, experts from water-energy-agriculture backgrounds, smallholder-farmers, technical service providers, financial institutions, and enabling environment actors. By working in synergy with GIZ partner projects and promoting integrated solutions, Sun4Water will support business model development and implementation for SPIS capacity building services as well as boost access to innovative finance products and services while also promoting networking and cross learning platforms. At the global level, Sun4Water intends to establish a network of knowledge, skills and resources on the basis of experiences gained from projects and programmes working on the water-energy-food nexus in Germany and from international technical cooperation.

CONTRIBUTION TO THE SDGS

The program contributes to 5 out of 17 Sustainable Development Goals (SDGs).

IMPLEMENTATION COUNTRIES

Sun4Water will leverage shared expertise and resources to amplify its mission and drive positive change on the ground through strategic collaboration with GIZ partner projects across 6 of the WE4F implementation countries. These are: Mali, Niger, Togo, Ethiopia, Kenya and Malawi.

The GIZ steering unit is located in Bonn, Germany.

WHO WE WORK WITH

Sun4Water aims to engage technical and vocational education and training centres, farmer organisations, technical and financial service providers, local, national, and international institutions, policy actors as well as civil society actors. It also provides workshops and trainings for individuals and trainers with expertise in the field.

INTERESTED IN BECOMING A PROJECT PARTNER?

Contact sten.schurer@giz.de / guillaume.imbert@giz.de to discuss partnership opportunities and how your project and knowledge can play a meaningful part in the implementation of Sun4Water.