

Course Objectives

— We provide basic knowledge in the field of irrigation farming using **solar energy** and **rainwater harvesting**.

— We impart knowledge about **business models for agricultural practices** using SPIS and RWH – based on current practice and the latest results of the project.

— We transfer knowledge on didactic topics, **policy advice** and awareness raising, and entrepreneurship.

When, How, Where ?

— The training sessions will take place sequentially at various locations: at JKUATES, at JKUAT, at the HOSA field station in Juja/Nairobi, and in the **UENB region** (covering the Kenyan counties Laikipia, Meru and Isiolo).

— In parallel, we also offer online learning sessions.

— The individual training days build upon one another; thanks to comprehensive course documentation and a flexible course structure – which includes content reviews and individual adjustments – participants can **join at any point throughout 2027**.

Your Benefits

— You will be empowered to understand how you become a teacher yourself or start your own business.

— You will gain access to our network, learn about **business opportunities**, and earn a valuable certificate. *All courses are offered free of charge.*

Cooperating partners:

zalf Leibniz-Zentrum für Agrarlandschaftsforschung (ZALF) e.V.

JKUATES Taking the University to the People

Mount Kenya Ewaso Water Partnership

AIAP Association of Irrigation Acceleration Platform

FIW Forschungsinstitut für Wasserwirtschaft und Klimazukunft an der RWTH Aachen e.V.

Jomo Kenyatta University of Agriculture and Technology

Federal Ministry of Agriculture, Food and Regional Identity

PV-Projects Agency

Project manager
Federal Office for Agriculture and Food

Any questions?

Please contact the course coordinators for further information:

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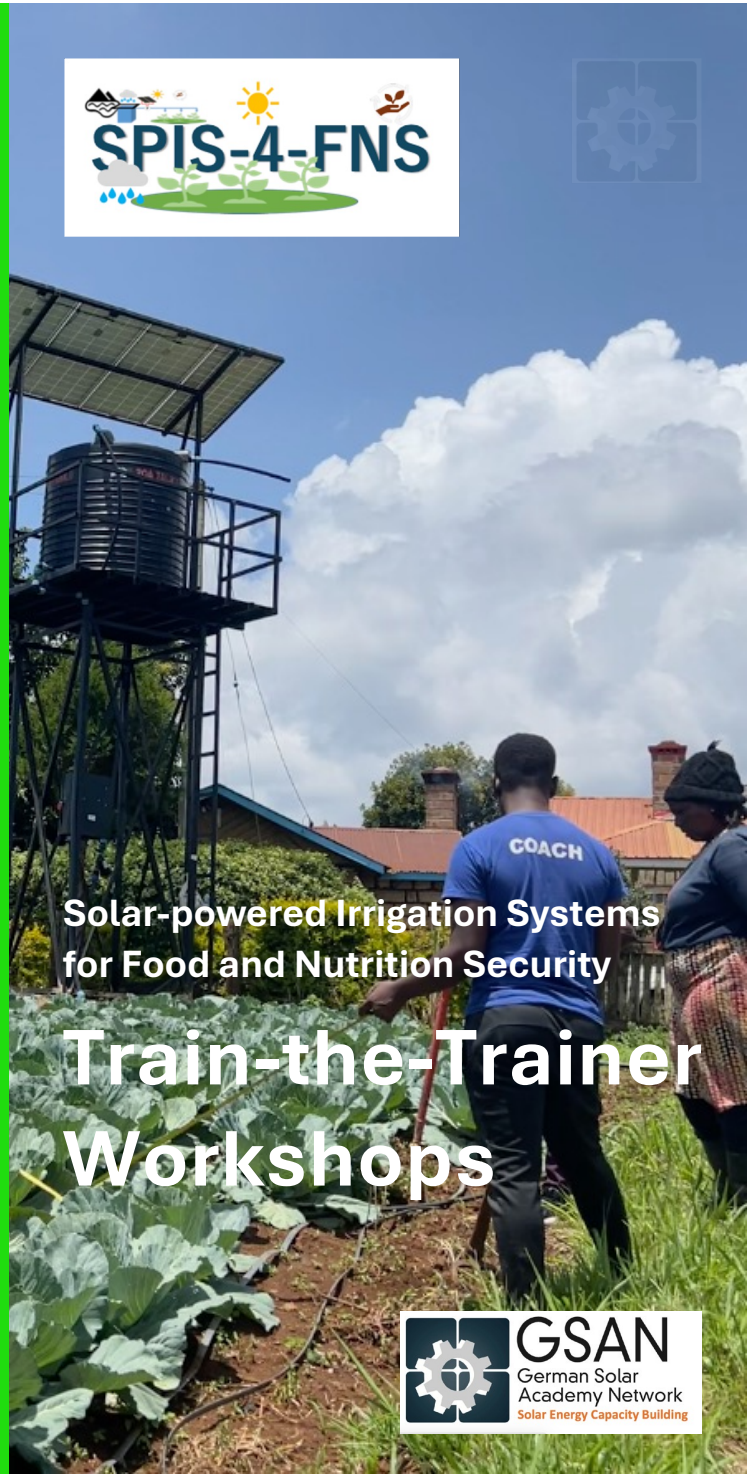
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SPIS-4-FNS



Solar-powered Irrigation Systems for Food and Nutrition Security

Train-the-Trainer Workshops

GSAN German Solar Academy Network
Solar Energy Capacity Building

Business Models for Agriculture using Solar-powered Irrigation and Rainwater Harvesting.

Your Commitment / What we look for

— We are looking for exactly you: an interested, motivated individual who is ready to **make an impact**, get involved, and commit to promoting sustainable development worldwide.

— Get involved in local activities and support economic development as well as **sustainable food production** in Kenya.

— You will invest approximately 3 days per month – a total of around 40 studying hours – to complete the qualification and earn a certificate as an expert in the **Water-Energy-Food-Environment** Nexus (WEFE Nexus).

— Don't remain silent. Invest some time – this is your opportunity, your chance. Contact us today! Onboarding is possible at any time.

— Training period: **November 1, 2025 – January 15, 2028**

The SPIS-4-FNS Project

"Improving Food Security through Solar-powered Irrigation Systems (SPIS) combined with Rainwater Harvesting (RWH) for Smallholder Farmers in the **Upper Ewaso Ng'iro Basin** (UENB)" (SPIS-4-FNS) is a project funded by the Federal Ministry of Food and Agriculture (BMLEH).

We aim to develop innovative, **solar-powered**, **rainwater-based irrigation** systems and business models for the sustainable agricultural production of food crops. Our implemented technical and economic solutions are intended to help smallholder farmers reduce their dependence on seasonal rainfall and improve **food and nutrition security** (FNS).

Deepen your Expertise and pass on your Know-how to others

Our "Training of Trainers" (ToT) concept aims to train interested individuals – primarily from the Greater Nairobi/Juja area and the 3 districts of **Laikipia, Isiolo, and Meru** – to become trainers. The goal is to equip them with the ability to pass on essential practical knowledge to farmers and other future trainers.

Potential participants for these training sessions include students, freelancers, entrepreneurs, administrative professionals, employees, consultants, and educators – particular those working in vocational schools.

Take this opportunity to network and learn from experts in **industry and academia**.

Where we stand

To date, a total of 5 **training events** have been held at the JKUAT campus in Juja, including a visit to the "Intersolar" trade fair in Nairobi.

In the UENB region, a total of 8 workshops took place, including "**Farmers' Field Days**" at our "Lighthouse Farms"(LF) and meetings with stakeholders in Nanyuki or Meru Town. In addition to the registered trainees, local farmers were also invited to tour the **LF**.





Course Content

— Introduction, ORGA, SPIS-4-FNS project status (A)

— Basics of irrigation agriculture and rainwater harvesting (B)

— Basics of solar energy and solar pumps (C)

— Practical irrigation technology and soil moisture sensors (D)

— Practical photovoltaic installation, operation, and distribution (E)

— Agricultural economics (F)

— Optimization of agricultural businesses (G)

— Innovative business models / financing / banking (H)

— Didactics (I)

— Entrepreneurship (J)

— Testing and certification (K)



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