



**Capacity Development Workshop on
Sustainable Water and
Energy Solutions supporting
Circular Economies**

**Canal De Isabel II, Madrid, Spain
23 February 2023**

**STIFTUNG SOLARENERGIE-
SOLAR ENERGY FOUNDATION**

**ENERGY AND WATER FOR OFF-
GRID COMMUNITIES**

**SAMSON TSEGAYE, ETHIOPIA
February 2023**



ETHIOPIA

- Fast population growth, Over 110Mil
- Urban Energy demand increase

Some Initiatives

Agricultural transformation,

(Distributed Renewable Energy- Agriculture Modalities, Dream program)

- The agricultural sector of Ethiopia accounts for 32% of the country's GDP and provides 70% of employment.
- Around 300000 people will get benefit
- Expected to generate 60000 jobs

Solar Power (Masdar Initiative)

- 500MWp Solar power agreement between Masdar, Abu Dhabi

STIFTUNG SOLARENERGIE-SOLAR ENERGY FOUNDATION

- The Foundation is actively engaged mainly on some of the SDGs. Such us SDG 3,4,5,6 and 7

3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



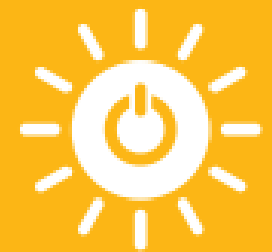
5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



Solar Water Pumping Projects



Community Water supply

- ✓ Reduces the tiresome travels with heavy water containers
- ✓ Saves time
- ✓ No frequent maintenance



For Irrigation purposes

- ✓ Possible to harvest twice a year
- ✓ Possible to change the local farmers income
- ✓ Helps to improve their life style



Health Institution installations






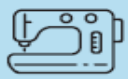

























Lighting Student Home project

- Student will have additional time to do their assignments and homework
- They can have spare time to assist their families
- They can be competitive at school
- It helps to reduce school drop out



Productive use Solar Technologies

- Promoting the productive uses of energy is an important aspect in the design and implementation of rural energy projects generally, and renewable energy projects more specifically.

AGRICULTURE			INDUSTRIAL	COMMERCIAL		SOCIAL/PUBLIC
Irrigation 	Threshers 	Land Preparation 	Clothing 	Hairdressing 	Cooking 	Education 
Mills 	Drying 	Chilling 	Carpentry 	Restaurant / cafe 	Retail cooling 	Health devices 
Night fishing 	Cold storage 	Milking 	Construction 	Cinema 	Phone charging 	Vaccine storage 
Oil Presses 	Egg Incubators 	Electric fences 	Electronic/ auto repair 	Transport 	Handcrafts 	ICT 
Feed processing 						



THANK YOU



