



GLOBAL SYMPOSIUM ON  
SUSTAINABLE WATER &  
ENERGY SOLUTIONS  
ITAIPU BINACIONAL

Samson Tsegaye, Solar Energy Foundation Ethiopia , June 2022

# STIFTUNG SOLARENERGIE-SOLAR ENERGY FOUNDATION-ETHIOPIA

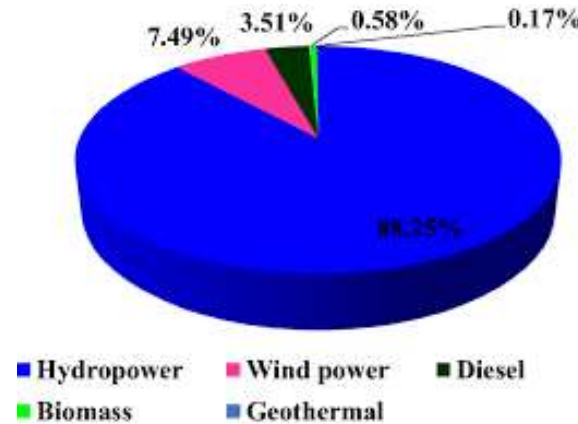
- Stablished in 2005 in Germany and 2007 in Ethiopia
- Mainly working on Solar technologies
- Disseminating Solar solutions for rural communities in sustainable way
- Powering public off-grid institutions (Hospitals, Health Centers, Schools...)



# WATER AND ENERGY SOLUTIONS

## Water for Energy-Energy for Water

- Ethiopia's majority power generation is from hydropower
- It accounts 88.5%
- 4068MW installed capacity
- Grand Ethiopian Renaissance Dam, 5.12GW



- Energy for Water
- Solar Power is not yet used in Ethiopia
- Only off-grid stand alone systems installed for rural set ups



# SOLAR POWER FOR COMMUNITY WATER SUPPLY

- Rural Communities suffered because of lack of water supply
- Long distance walk to fetch water
- Difficult for kids to go to school after fetching water
- Now possible for them to attend school after the solar water pumping installed for the village
- Time saved
- Mothers get more time for home chores activities and other social activities



# SOLAR POWER FOR HEALTH INSTITUTIONS



- Rural hospital fully powered by solar electricity
- Health centers mainly Maternity departments get solar power
- Now, Possible for them to save mothers and children life
- They can deliver proper services



Maji Hospital Solar power installation 33KWp

# SOLAR POWER FOR IRRIGATION

- Farmers used to farm only once a year
- With solar irrigation pump possible to harvest double
- They cover their need and possible to increase their income



# LIGHTING STUDENT HOME PROJECT

- No Activities after sunset
- Schools are far from most off-grid areas
- Long distance walks to and from schools
- No chance for them to get time for study
- They can do more with such small solar lanterns
- School drop out reduced
- They become competitive with urban students





**THANK YOU**