

ALE WATER & ASOLUTIONS TO ACHIEVE QUALITY EDUCATION, GENDER EQUALITY AND ECOSYSTEM HEALTH THROUGH STRATEGIC PARTNERSHIPS

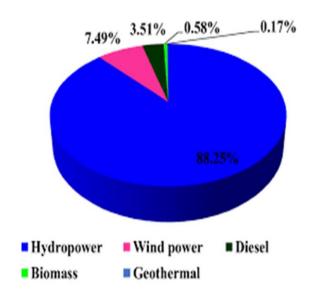
#### STIFTUNG SOLARENERGIE-SOLAR ENERGY FOUNDATION-ETHIOPIA

- > Stablished in 2005 in Germany and 2007 in Ethiopia
- ➤ Mainly working on Solar technologies
- Disseminating Solar solutions for rural communities in a sustainable way
- ➤ Powering public off-grid institutions (Hospitals, Health Centers, Schools...)
- Providing trainings for Solar Technicians and interested individuals on Solar PV technology



## WATER AND ENERGY SOLUTIONS Water for Energy - Energy for Water

- Ethiopia's majority power generation is from hydropower
- > It accounts 88.5%
- ➤ 4965.5MW installed capacity came from 14 different hydropower plants
- ➤ Grand Ethiopian Renaissance dam will increase the installed capacity by 5.12GW when it is done







# Solar PV Projects for Social impacts

- > only about 14 MW solar PV have been used for telecom service, lighting, powering water pump in rural areas and for water heating in major cities
- ➤ Less than one million off-grid stand alone systems installed for rural set ups( even more than 14Million house holds are in need of it)
- > 1000MW Solar PV installations planned by Government
- > 100MW awarded to an International company
- ➤ The project not yet started because of Covid 19 and local political situations





#### 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

#### After Solar Water pumping installations

- possible for the kids to attend school, No more long distance walk and carry heavy water containers
- ➤ Mothers get more time for other home chores and other social activities and family time





#### **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





#### **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 in rural areas
- > 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







### Challenges

- > Frequent policy changes
- > Political instability
- > Hard currency access to open LC for importers (
- Technologies are not locally sourced (Local production should be encouraged)
- No incentive for players





