



Water & Energy Solutions boosting Social actions in support of SDGs 3 (Health) and 4 (Educations), August 18, 2021

**SOLAR ENERGY FOUNDATION ETHIOPIA**

**ACTIVITIES RELATED TO SDG 3,4,6,7**





## Challenges Regarding Proper Education

- Rural Kids are Responsible for the household chores
- School drop-out
- Distance to schools
- Lack of infrastructure





## Solutions delivered by SEF

- 4 school ,grade 4-8 received a solar lantern
- More than 2000 students benefits from this service
- The Lanterns are owned by the school
- Students return the lanterns when they pass grade 8 and transfer them to the next student.
- With this solution, Students can do their homework when they back home even if it is late and dark.
- Students families also benefits from the light.
- This approach reduces student drop out as they are competitive with the urban students



# Main Challenges for proper Health services

- Most Health posts and Centers are far from the main grid. This affects their ability to do their work properly.
  - Patients also suffer as the nearest Health institutions couldn't give them the service. They have to travel long distances to the next center or where there is electricity.
  - Specially many pregnant mothers suffered a lot and lost their life before they reach to the Health facilities
  - Even if they manage to reach at HCs, no power . So, they have to go to the next HC where there might be available power.
- But, mostly no chance





# Solutions delivered by SEF

- Solar Energy Foundation installed 170 Solar systems for off-Grid HCs
- The installation includes lights, Cooling (Fridges), Charging points, Fetal Doppler, Head lights and thermometers
- This will reduce the long distance travels of mothers to Hospitals and saves their lives too.
- Health workers can do their Job properly





## SUSTAINABILITY

- Solar Energy Foundation , Green Lamp and Hamlin Fistula Ethiopia working together on the sustainability of Solar Suit case/ Solar lighting system installed for over 200 Health institutions in Ethiopia. These projects are funded by Green Lamp.
- SEF is responsible for the maintenance and after sales services of the Solar Suit cases installed in the main four regions of Ethiopia.
- The same time we provide training for the health workers on how to handle the equipment properly as mainly the system failure happens because of mishandling and overuse of the system.
- This activity ensures the long term service of the equipment.
- The other main challenge at Health Facilities is the staff turnover. New staff members don't know how to handle the system properly. This leads to un-proper handling and usage of the system. To avoid this, we always train the health workers frequently. This helps us to have trained Health workers at the Health centers on the solar system use.





7 AFFORDABLE AND  
CLEAN ENERGY



3 GOOD HEALTH  
AND WELL-BEING



## Maji Hospital Solar Power installation, 36 KWp





## 6 CLEAN WATER AND SANITATION



### Water , Sanitation and Health

- Most off-grid areas lack clean water access.
- This leads the community to serious health issues in different ways.
- They spend lot of time to fetch water as the water source is far from their village.
- Kids, girls are responsible for fetching water.
- No chance and time for them to go to school.

**SEF** installed different Solar water pumping systems for different villages.

- This allow the community to access the water close to them.
- Kids and Girls got time to go to school.
- Some places also access to clean water.





**THANK YOU**