



ZOERSEL - SENTEC ENERGY PROJECT - HAND WASH 2021

Introduction

Sentec, now celebrates 35 years of service in Oruro Bolivia, it is a great joy to be able to report the activities carried out thanks to the support we received from the Zoersel community.

With many limitations due to the pandemic, we have managed to show that it is possible to use solar energy to promote healthy habits, access to basic services and use of abundant resources in our environment.

We are grateful for the support you provide to promote access to better living conditions for our **(your)** beneficiaries.



Development

Thanks to the support received from Zoersel, in 2021, SENTEC, with its alternative energy department, has designed, built and installed 4 solar-powered hand washing (sinks).



These sinks (hand washing) were installed in the following educational units

Zoersel Solar energy project - hand wash (basins) - 2021

Total students per educational unit

#	Educational unit	Number of students	Teachers	Administrative	Age of students (years)
1	Educational unit Merkaymaya	310	12	3	6 to 18
2	Orinoca Agronomy Education Center	120	8	2	18 to 26
3	School of agronomy from Oruro	154	8	2	18 to 26
4	Basic agronomy training center Caracollo	180	10	2	18 to 26
Sub - Total		764	38	9	
TOTAL BENEFICIARIOS			811		

Approximate average age: 17 years old from 764 student.



Installation and use of hand washers in Merkaymaya educational unit



Due to the Covid-19 pandemic, and health care, the activities were developed in 3 educational units where adolescents study and 1 educational unit for children.

When the equipment was installed, training was given on the technical possibilities of using solar energy.

The following activities were developed:

- Transportation of equipment that works with solar energy (stoves, dehydrators, thermo collectors)
- Socialization of the potential use of solar energy in the Bolivian highlands..
- Description of the construction characteristics of the equipment (type of materials, operating principles, etc.)
- Demonstration of the operation of solar energy equipment.



Installation and use of hand washers in the Mercaymaya school with the help of parents



Results.

In all the educational units, the solar energy training activities were developed with students of the last years (older students) to make possible the attention, understanding and participation of all.

In all activities, people of both sexes (men and women) participated with an average age of 17 years.

For the installation of the equipment, the following activities were carried out in the educational units:

- Coordination activities with the authorities of the educational units, municipal authorities teachers and parents.

- Construction of the equipment, 4 solar hand washers, and their support structures (Includes: equipment design, purchase of materials, etc.)
- Preparation of teaching material for training.
- Installation of solar equipment
- Training in the maintenance, care and use of the equipment delivered.



SENTEC team installing the solar hand wash basin at the Orinoca Agronomy Education Center



SENTEC team installing the solar hand wash basin at the Basic agronomy training center Caracollo



Economical report

PROJECT COSTS ZOERSEL SOLAR HAND WASH (BASINS)			
Nº	Description	Expenses ZOERSEL 2021 (EUR)	Local Contribution SENTEC 2021 (EUR)
1	Relations with education and municipal authorities	266,46	
2	Training and socialization actions	800,00	311,82
3	Materials for the construction of 4 solar hand-washing units	1.017,29	217,75
4	Construction equipment and tools for 4 teams		482,25
5	Solar Handwashing Construction Technicians	1.567,62	257,54
6	Technical Coordinator	539,50	
7	Overhead expenses	309,14	
	TOTAL	4.500,01	1.269,36

Note: the local contribution has been covered with the support of HERMAN PAULUSEEN.

**WE ARE ALWAYS GRATEFUL FOR THE SUPPORT
YOU GIVE US**

(SENTEC TEAM)