

Background

Solar MUS program is supported by The Big Lottery Fund, UK and implemented by the partnership of Renewable World (RW), as the prime implementer, iDE Nepal, Sun Farmer Nepal and SAPPROS Nepal along with local NGOs in each of the program district.

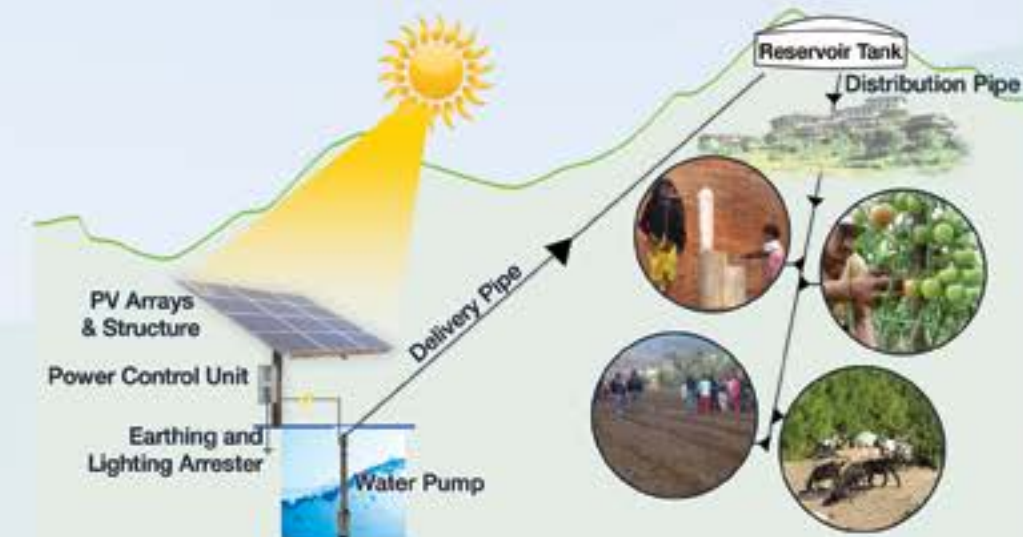
The overall goal of the project is to create income and livelihood opportunities for rural people by providing sufficient water for domestic and productive purposes using solar technology.

What is Solar MUS?

Solar MUS is a system where solar powered water pump lifts water from a lower situated source to community residing at higher locations. The pumped water is collected in a reservoir and distributed through gravity system amongst the households. The water is mostly utilized for domestic and productive uses, such as: micro-irrigation and creating of labor saving technologies.

Why Solar MUS?

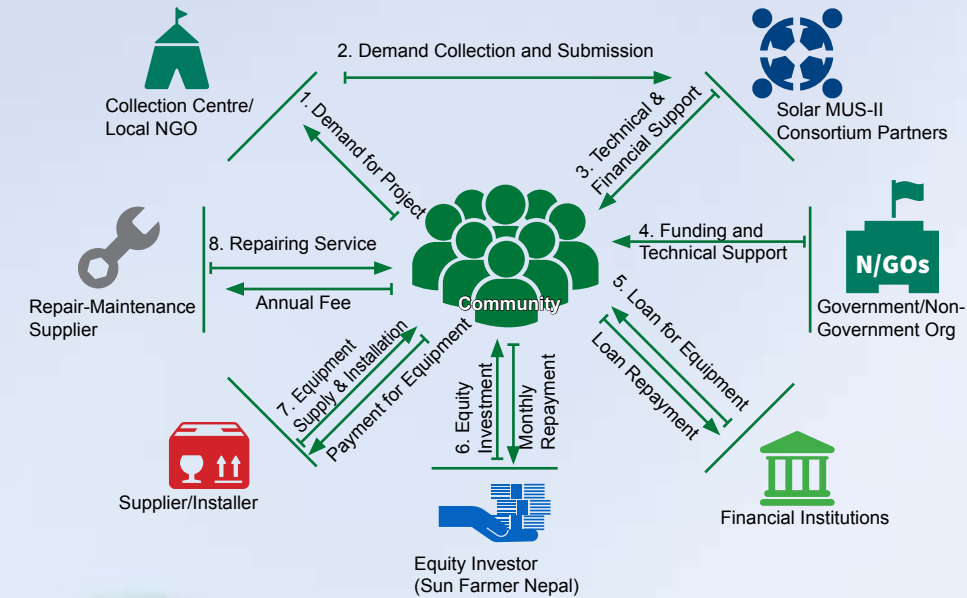
For communities living above the water source, a power pump solution is required to lift the water from source to communities. Diesel powered pump is one of the solution, but it is not environmentally friendly as well as its operation cost is high. Grid operated pump can be another solution, but most of the rural communities do not have access to grid. The long duration of load shedding and poor quality of electricity, the grid operated pump cannot be the complete solution. Solar powered pump is one of the best solution where solar panel power the pumps. The availability of abundant sunlight and improvement in the efficiency of solar system have made the Solar MUS as a great solution.



Benefits from Solar MUS Project

- Increase in income by cultivating high value crops (mainly vegetables) year round on a greater proportion of land;
- Increase in food security due to increase in productivity as well as cultivating crops on previously unutilized land;
- Improve in nutrition of beneficiaries by having improved diets in terms of nutritional
- Empowerment of women by engaging women in high value crop production and sale activities which gives them direct contact with the money and therefore greater decision making authority in both household and community level.
- Reducing workload of women and children for carrying water, a task normally conducted by women and children.
- Improve in hygiene and sanitation due to availability of sufficient water.

Project Cycle



1. Community members willing to install Solar MUS project can contact nearby Collection Centres
2. Collection Centres collect the demand from communities and provide the list of demand to Solar MUS consortium partners.
3. Consortium partners mobilize the technical partner to assess the feasibility of the project.
4. Consortium partners will facilitate communities to get access to loan, grant, subsidy etc.
5. Community will mobilize their saving and labours to reduce the loan amount for project construction.

If you are interested to install the solar pump in your community, please fill this form and submit to nearby collection centre

District

VDC

Village **Ward #**

No. of Households in your community

Need of water Drinking Irrigation

Present source of water for drinking
 Piped water Spring Stream
 Other

Name of nearest collection Centre and its address

Information filled by:

Name

Address

Contact number

Tear here

- Selected supplier will provide and install the technology, and commission the system.
- Beneficiary households start collecting the monthly water consumption fee. The collected fee is used to repay the loan instalment, salary for plant caretakers and repair-maintenance services.
- Community will enter into Service Level Agreement with the Repair and Maintenance supplier. The supplier provides the repair-maintenance services to communities on regular basis and community pay the fee to supplier on monthly/annual basis.

Project Size and Water Supply Capacity

Lift Height (m)	Solar Capacity (Wp)	Water Supply per day (ltr)
20	300	9,000
30	500	11,500
40	750	13,000
60	1,000	12,500
80	1,200	11,500
100	1,500	11,500

The size of the solar system increases with the increase in water demand and lift height. The cost of the system increase proportionately.



Organizations and Contact

SAPPROS Nepal

39-Kha, Surya Marga, Babarmahal, Kathmandu
 Tel: 01-4232129, 4242143
 Email: info@sappros.org.np | sapprosnepal@hotmail.com
 www.sappros.org.np

Sun-Farmer Nepal

Sanepa, Lalitpur, Nepal
 Tel: 01-5547327
 www.sunfarmer.org

iDE Nepal

Bakhundole, Lalitpur, Nepal
 Tel: 01-5520943
 Email: info@idenepal.org
 www.idenepal.org

Renewable World (RW)

Bakhundole, Lalitpur, Nepal
 Tel: 01-5520943
 www.renewable-world.org



Major Donors



Implementing Partners



Local Implementing Organization

