



INSTALLATION



MAINTENANCE

# Solar Pumping System for Women Farmers

## SUMMARY

|                    |   |
|--------------------|---|
| Country            | Senegal   |
| Implementer        | Le Partenariat                                  |
| Target groups      | 500 women members of the economic group NAFOORE |
| Duration           | 08/2022 – 07/2023                               |
| Type of energy use | Irrigation                                      |

## CHALLENGE

Only 47% of Senegal's rural population has access to electricity and about 84% of the available electricity is generated from oil, using expensive diesel generators. In the community of Mboumba in the northeastern part of the SaintLouis region, irrigated agriculture is well developed with water from the Senegal River. Nonetheless, as the costs of the diesel generators needed to run the irrigation system are high, these expenses reduce the profit margin of the rural population. Especially the women in Mboumba, who mainly work in agriculture and manufacture produce for the markets, are affected by the high electricity costs. Access to renewable energy as an alternative to fossil fuels is limited in this area.

## IMPACT LOGIC

The project promotes the productive use of renewable energies within the NAFOORE economic association of women farmers. Therefore, a solar system with a water pump is installed in Mboumba. It replaces the previous diesel generator and enables the women's group to irrigate around ten hectares of land. To ensure technical sustainability, a local technician monitors the performance data of the pump closely and sends regular reports to the implementing organisation. During multiple training sessions, the women are sensitized with regards to climate change, renewable energies and the optimal use of the solar pumping system. A sustainable financial operating system is established, wherein the women pay a monthly contribution to the maintenance and upkeep of the installations.

Overall, the project approach aims to

- (1) reduce irrigation costs for the NAFOORE women farmers group,
- (2) increase their agricultural harvests thanks to an alternative pumping system, and, finally,
- (3) change the primary energy source used, thereby promoting the environmental and climatic resilience.

## INNOVATIVE PROJECT ELEMENTS

The project approach focuses specifically on women farmers as vulnerable members of Senegalese society. It provides them with access to clean technologies and strengthens their ownership through a selfmanagement approach. This has a consolidating effect on the sustainability of the project.

## FURTHER INFORMATION

[www.gruene-buergerenergie.org](http://www.gruene-buergerenergie.org)