

Pilot Project/Socioeconomic Closure Report

Horizons for Green Development

Project Component	Water Pilot Action
Activity Name	Rainwater harvesting tanks for use in municipal gardens and farmers in Monastir, Tunisia.
Geographical Scope	Monastir Municipality – Tunisia
Focal point & position	Wafa Gandouz – Chief Engineer
Email/phone number	wafa_gandouz@hotmail.com / +216 98 480517
Total activity duration	10 Months
Starting Date	August 29 th , 2019
Completion Date	June 26 th , 2020
Budget Line	4.1
Activity Budget	JOD 54,387

Description of overall project

This project is intended to collect rain water for irrigation of public spaces and for other uses (washes) without needing to use the drinking water network. The proposed location of the Project is near the sea port of Monastir, between the swimming pool and the stadium.

The reservoir capacity is 1000 m³ of rain water; it can offer on average 2700 liters a day all year long which is sufficient to cover the needs of the stadium and gardens according to the municipality of Monastir. The rainwater harvesting system will help reduce runoff in the municipality of Monastir which limits the risk of flooding and pressure on storm sewers. In addition, and during heavy rainfall, the storage of this water will, in part, prevent clogging of the sewage networks in stadium areas.

MINARET Assigned Deliverables

Installed and functional water harvesting system in Monastir.

Achieved?



YES



NO

Actual project deliverables and achievements

- Construction of the underground water tank
- Connection of the tank to the water collection system on top of the stadium
- No PV system was installed because it was above the allocated budget.
- Connection of the solar pump to the tank in order to utilize stored water. to be done by NERC as its not done yet

Conclusions

- The activity was completed successfully and the water harvesting tank has been collecting rain that falls on top of the Monastir stadium as designed.
- No PV system was installed because it was above the allocated budget.

Challenges and bottlenecks throughout implementation

- The Covid-19 pandemic caused delays in implementation/construction of the tank, however, the work was completed eventually after lockdown orders in Monastir were lifted.

Future prospects and sustainability

If the pump is maintained properly and if the solar panels and the pipes that collect the water are kept clean, the rainwater harvesting system will be a self-sustaining system that will help the Monastir municipality store and utilize rainwater as needed with no energy or water costs. The savings generated through the PV system and the water savings can then be utilized for other components in the municipality, such as establishing a Nexus revolving fund or expanding the PV system to cover other energy needs besides the water pump.

Photos





As per the final deliverables or goals required by the MINARET project, we consider the activity completed and finalized, the activity is hereby concluded and this closure report is issued.

Horizons for Green Development
August/2020

