

Pilot Project Closure Report
Horizons for Green Development

Project Component	Water Pilot Action
Activity Name	Farmers' projects in the lower part of the Barouk river and channel rehabilitation in the upper part of the river.
Geographical Scope	Jdeideh Municipality – Lebanon
Focal point & position	Hisham Fatayri – Mayor
Email/phone number	fatairyh@yahoo.com
Total activity duration	4.5 months
Starting Date	26/3/2019
Completion Date	19/8/2019
Budget Line	4.1 (NERC)
Activity Budget	55,000 USD

Description of overall project

Maintenance and cleaning was undertaken to restore a 6 km water canal from dirt and debris through a cash for work intervention that required 100 workers over 5 days. Once completed, this canal provided no less than 60 farmers with their essential daily needs of water for farming. The project renovated two dams in the stream, one of which will help transfer water into the canal, while the other will collect water that will be pumped into the canal.

The intervention worked closely with another water/energy intervention that oversaw the installation of a solar powered water pump at the Barouk River next to the canal. The pump provided access to water to 25 different farms using a 3-kilowatt PV system, by pumping around 12 cubic meters per hour of water from a stream multiple times per week, through the repaired canal and the installed irrigation system, to 25 different tanks, totaling 150 cubic meters in volume, farms in the area will have constant access to water that is vital for farming.

MINARET Assigned Deliverables

- Installed and functional irrigation system in Jdeideh

Achieved?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO
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Actual project deliverables and achievements

- 25 water tanks delivered and installed.
- 3kW PV system and solar pump installed.
- 6 km canal repaired through CfW.
- 25 farms reached.
- 80 farmers reached.
- Farms have access to a water grid that will provide full access to water and allow them to utilize drip irrigation.
- The planned location for the water pump (at the river) had been changed due to the fact that after installation the municipality discovered that gravity by itself can push the water to a significant altitude before the pump was installed.

Conclusions

The water pilot action in Lebanon was successfully completed and it exceeded the team and the municipality's expectations as to how effective it would be.

Challenges and bottlenecks throughout implementation

- Slight delays in installing the tanks, as only 20 tanks were installed initially while 5 were waiting for farmers to prepare their lands and clear an area for them to be installed.
- Weather issues delayed work on repairing the canal.

Future prospects and sustainability

- The project has been completed successfully and is providing 25 farms and 80 farmers with water for irrigation.
- The project will synergize with MINARET's socioeconomic project, the revolving fund, to help provide the farmers (among others) with seed money to enhance their farms through new technologies that will build upon the installed system and finance new avenues of irrigation and agriculture in Jdeideh.

Photos







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

Horizons for Green Development
06/10/2020

