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From

Yemen Family Care Association (YFCA)



Project details

Project: Provision of Integrated WASH and Shelter assistance to IDPs and their most vulnerable hosting communities at Jehaf , Juban, Damt and Al-Hushaa districts of Al-Dhale Gov.
YEM-19/3420/SA2/WASH-SHNF/NGO/14589From Jan 2020-Jan 2021.



Venue of the story

Libah valley's groundwater-well, Juban district of Al Dhale governorate, Yemen



Sector

Water, Sanitation and Hygiene (WASH)



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SUSTAINABLE CLEAN WATER SOLUTIONS!

Funded by the UNOCHA's Yemen Humanitarian Fund (YHF), YFCA has inaugurated the solar-powered pumping unit for Libah valley's groundwater-well in Juban district of Al Dhale governorate; the well serves sustainably the whole 120,000+ population of Juban district. The project was implemented in coordination with the Local Water and Sanitation Corporation (LWSC) office in the district.

37kW submersible pump and submersible electric motor were installed inside the water well at a depth of 210 meters. An array of 128 solar panels were set up with a total capacity of 56,320 watts (the power of one solar panel = 440 watts).

A 4X3 meters water control room was constructed along with a protective wall for the solar power system, in addition to fitting a couple of manholes. Installing the pumping line of galvanized iron pipes with a diameter of 5 and 4 inches, a length of approximately 1,700 meters.

BEFORE

the well location along with the principal pumping line (from the well to the main water reservoir tank) were all worn out. The well has been frequently in stop-mode for almost 10 years; the quantity of water produced from the well was low estimated at 120 cubic meters per day only. Providing population with water for one to two hours every ten days at which people could not get sufficient volume of water (Average volume of water used for drinking and domestic hygiene per household: Minimum of 15 liters per person per day- SPHERE).

AFTER

the production capacity of the well surges to about 210 cubic meters per day; the population get the water for 3 to 4 hours for every other day. The per capita share of water reaches to the minimum requirement for basic use of 15 to 20 liters / day), which is double the amount before the intervention. The LWSC's fees per cubic water is now declined from YER 800 (~\$1.3) to YER 500 (~\$0.83).

“The shortage of water had hit us gravely for the past years which forced us and our kids to travel long distances to fetch water from other villages’ wells, now our kids will have more time to focus on their [school homework]” a local female citizen commented.



56,320

WATTS FROM
SOLAR PANELS

210,000

LITERS OF WATER
PER DAY

18MILLION

PEOPLE IN YEMEN
IN NEED OF WATER

18 million people in Yemen are in urgent need of water, sanitation and hygiene (WASH) assistance, access to clean and safe drinking water remains crucial for the good health and survival of children and their caregivers. WASH needs remain substantially high due to the increasing number of displaced people as a result of the armed and other frontlines; natural disasters, food insecurity and epidemic outbreaks.