



**WF-AID**

ECONOMIC EMPOWERMENT & DISASTER RELIEF

# **DONOR PROPOSAL**

## **GAZA DESALINATION PLANT**



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# Proposed Desalination Project 2025/26

Gaza faces an urgent need for safe drinking water, as current sources are unreliable and often contaminated, leading to disease and reduced agricultural productivity.

Our trusted partners on the ground in Gaza, Anera - with whom we continue to work successfully - has confirmed their capacity to deliver a new solar-powered Reverse Osmosis plant. Here is a summary of the project details:

- Solar-powered Reverse Osmosis (RO) unit
- Daily production capacity of 50,000 litres to benefit 1,000 families
- Local procurement of equipment and materials
- Construction will take place in green zones to ensure safety of workers and beneficiaries



**Solar-powered  
desalination plant**



**Water delivery to IDP  
camps facilitated by  
our ground partner**



**Desalinated water will  
boost agricultural  
productivity**



# Desalination Plant - Financial Breakdown

Below is a financial breakdown of the estimated costs for the procurement and installation of a Reverse Osmosis plant in Gaza. This system will have a daily production volume of 50 cubic-metres (50,000 litres), and will be solar powered.

Item	Cost - USD	Notes
Procurement and installation of a 50 cubic-metre desalination system	\$101,922	This cost includes the purchase of all equipment, installation, one year of maintenance, and two 5,000L storage tanks.
Procurement and installation of Solar Power System	\$93,529	A 5.9 kW photovoltaic panel system with a 5.3 kWh battery.
Training session for local community	\$1,199	Training sessions will be conducted to ensure proper handover and sustainable operation of the unit by the local community.
Miscellaneous Cost	\$10,350	
<b>Total</b>	<b>\$207,000</b>	<b><i>The total cost of the project may fluctuate by up to 10% as a result of uncertainty on the ground and difficulty in procuring equipment.</i></b>



# THANK YOU!

WF-AID is committed to addressing the urgent water and food needs of vulnerable communities in Gaza. Your contribution will bring immediate relief, improve access to safe water, and help restore livelihoods. Together, we can make a meaningful difference for those most in need.



# Desalination Project 2020/21

## Project Overview

In 2020, WF-AID launched a vital desalination project in Izbat Beit Hanoun, Gaza, to address severe shortages of safe drinking water. The initiative established a solar-powered Reverse Osmosis plant, a deep water well, and a water truck to deliver clean water directly to families.

### *Impact Summary*



**Average Monthly  
Reach: 20,000  
beneficiaries**

The project followed a structured build process:

- Preparation of the site
- 75-metre well drilled and tested
- Reverse osmosis unit installed
- Mechanical and Electrical systems connected
- Solar power unit installed
- Water distribution truck procured

**The total cost for this project in 2020/21 was \$77,983.**



# Desalination Project 2020/21

## Media Highlights



*Installation of Solar Panels*



*Fitting pipes into the well*



*Power system installation*



*Water emerges from the well*



*Water truck for the distribution of water*

