



“Water and Environment Support “ (WES) Project

The Egyptian Case for Applying Modern Irrigation in the Old Lands

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A group of seven people, including men and women, are posed for a photograph. They are sitting on a large, circular concrete structure that appears to be part of an irrigation system. In the background, there is a blue building with a metal mesh facade and a large, cylindrical concrete water tank. The scene is outdoors in a rural or agricultural setting.

Irrigation Improvement System in Egypt

❖ **Irrigation Improvement Project**

➤ **The main objective of the national irrigation improvement program in the old lands is to improve the efficiency of water use at the delivery, mesqa and farm level.**

❖ **This includes:**

1- Renovating, modernizing and improving the main delivery system.

2- Converting rotation canal delivery to continuous flow.

3- Improving canal management using automatic downstream control gates, telemetry and automation .

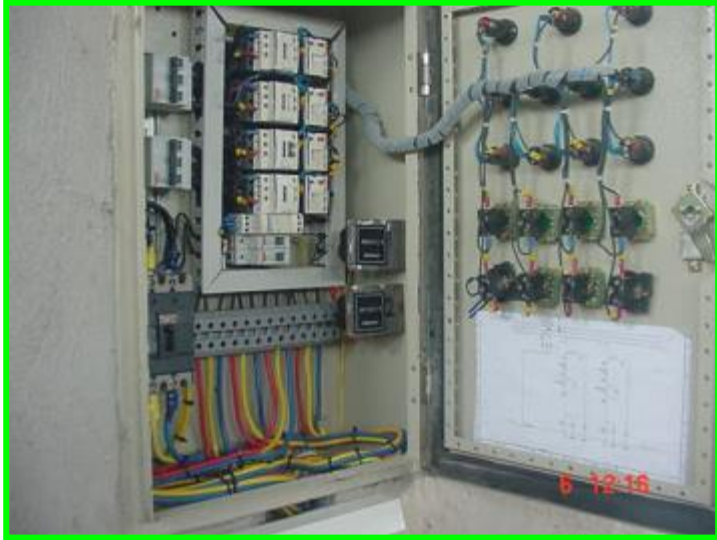
4- Converting low level mesqas to gravity mesqas with a pumping unit head (single point lifting)

5- Improving private mesqas through concrete lining or low-pressure pipe lines.

6- Building effective WUAs, they play a critical role in successfully managing and maintaining the micro-systems.





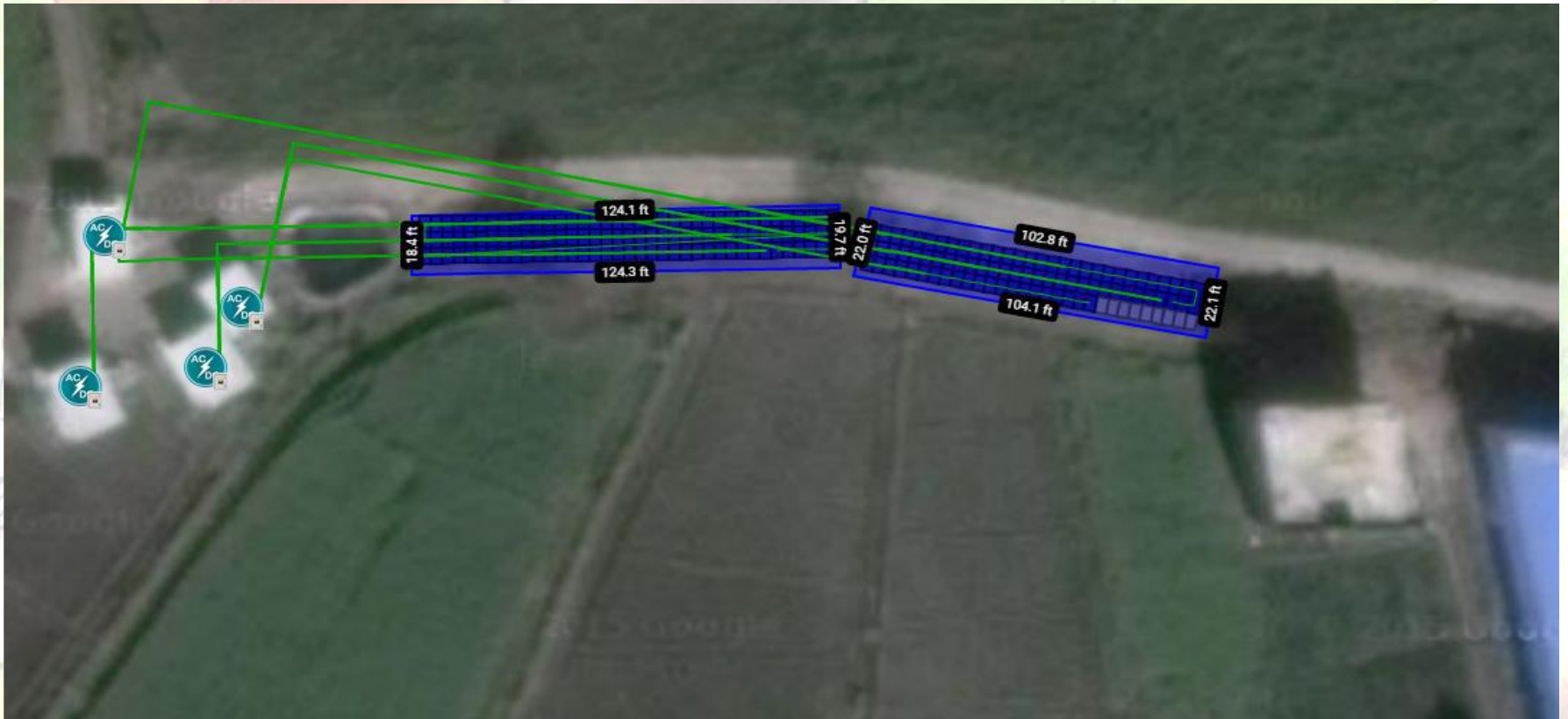


USE OF SOLAR-POWERED WATER LIFTING FOR IRRIGATION IN EGYPT



USE OF SOLAR-POWERED WATER LIFTING FOR IRRIGATION IN EGYPT

- ▶ Site 1 in Affera Areas in 240 feddans for 4 pumps



- ▶ Site 2 in Sorea Areas in 120 feddans for 2 pumps



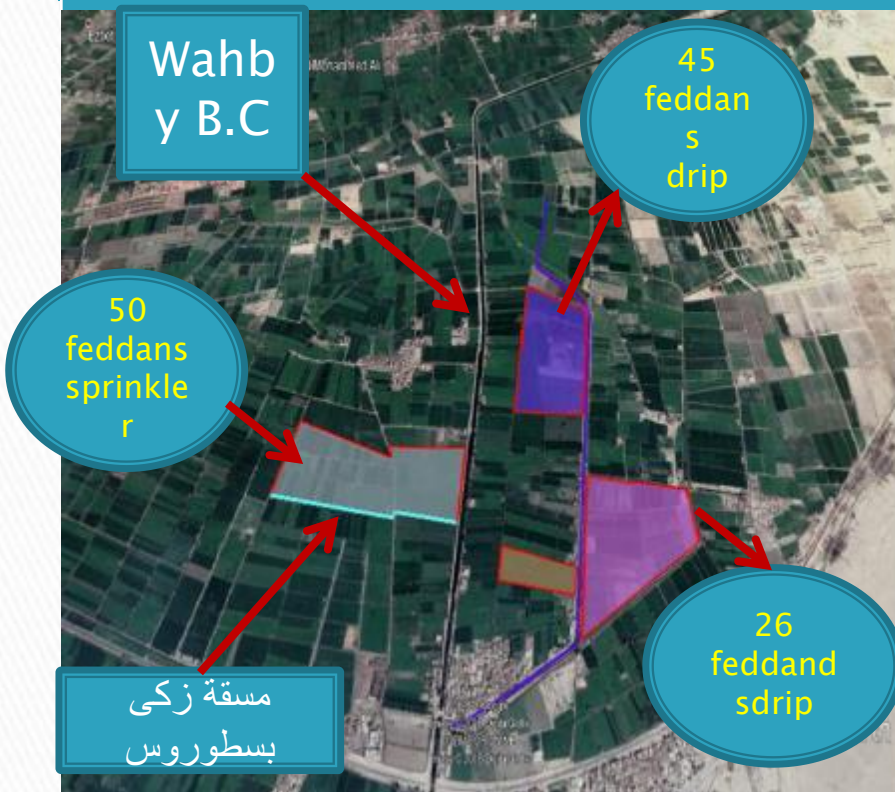
**Pilot areas in modern irrigation
by
IRRIGATION IMPROVEMENT
sector**





Pilot areas in fayoum BAHR sila area

26,45,50 Feddans Through Wahby B.C



77 FEDDANS



introduction to minister and key persons



Participatory approach to choose the appropriate layout and system



establishment of WUA



Signing of protocol of cooperation



preparation of tender documents



materials delivered to the site



test



After implementation



SPRINKLER IRRIGATION



Irrigation Improvement Projects Achievements

- ▶ Improving an area of about 650,000 feddans
- ▶ Formation of 2881 Water Users Associations on branch Canal
- ▶ Formation of 12000 Water Users Associations on private mesqa
- ▶ Implementing nine projects in addition to improvement works funded by local investment
- ▶ Pilot of modern irrigation in old lands (208 feddans) in Fayoum governorate.
- ▶ Pilot of modern irrigation for Sugar cane areas in Upper Egypt for 178 feddans with solar irrigation.

**Protocol of Cooperation to finance Mesqa
Rehabilitation, Modern Irrigation Neytworks in
old lands**

Protocol of Cooperation to finance Mesqa Rehabilitation, Modern Irrigation Neytworks in old lands



- ▶ A protocol of cooperation has been signed among: – Ministry of Water Resources and Irrigation (MWRI), – Ministry of Agriculture and Land Reclamation (MALR), – Ministry of Finance (MOF), National Bank of Egypt (NBE), Agriculture Bank of Egypt (ABE) in August 2021.
- ▶ The Protocol put the national banks to finance 60 billions Egyptian Pounds for 3.72 Million feddans in all old lands to be transferred in Egypt, the cost was 15000–18000 LE per feddan including mesqa, modern irrigation network.
- ▶ Cost recovery in 10 years without any interests in addition to 10 billion Egyptian Pounds by ministry of Finance to cover all the interests and unpaid installments by farmers.

Protocol of Cooperation to finance Mesqa Rehabilitation, Modern Irrigation Networks in old lands

▶ in the protocol the following procedures in financing;

1 – Mesqa Rehabilitation:

- By any of the two ministries (MWRI, MALR) by tendering contracts according to the law 182 year 2018 (it has not been applied)
- – By Agriculture Cooperatives through contracting with specialized companies.

2 – Modern Irrigation Networks

- – By Agriculture Cooperatives through contracting with specialized companies.
- – by Individual Farmers of big farmers (> 5 feddans).

Protocol of Cooperation to finance Mesqas Rehabilitation, Modern Irrigation Networks in old lands

- ▶ in the protocol the following procedures in financing;
 - To get the loans from national banks the farmers sign a form to repay the loan to the Bank according to their areas, that through the Agriculture Cooperatives.
 - The protocol started to work but very slow compared to the plan of the two ministries (MWRI, MALR).

Protocol of Cooperation to finance Mesqas Rehabilitation, Modern Irrigation Networks in old lands



- Another Protocol has been signed in November 2021 but as a complementary part for the first one by adding another partner (General Authority for Reclamation Projects and Agriculture Development) for 2 governorates (Qalubia for MWRI, Bani Suef for MALR) by 7.8 billion Egyptian pounds as a part from the 60 Billion Egyptian Pounds.
- The main purpose was to go faster by the banks to transfer the money to General Authority for Reclamation Projects and Agriculture Development and the authority of both ministries to tender contracts according to the law by any way.

Protocol of Cooperation to finance Mesqas Rehabilitation, Modern Irrigation Networks in old lands



- That protocol and the first one faced a big problem of what happened suddenly in price increasing many times and the cost per feddan became higher than the cost in the two protocols.
- Nowadays the protocol is under modification by the following:
 - 3 ministries only will sign (MWRI, MALR AND MOF) as MOF will specify the banks to finance and money will go to both ministries.
 - Cost recovery was proposed to be 20 years.
 - No costs mentioned to be according to current prices.



thank you