

EDAMA

EDAMA is a business association established in 2010.

- Vision: A sustainable and green Jordan through a vibrant Energy, Water and Environment sector.
- Mission: To serve a dynamic Energy, Water and Environment sector through policy advocacy, capacity building, awareness, and effective public-private sector engagement.



Challenges Facing Rural Areas In Jordan

1/5 of Jordanians live in rural areas

20% below the poverty line

- Limited access to alternative sources of income.
- Limited opportunities to diversify farming enterprises due to poor soil quality, low rainfall and land topography.
- Lack of loans needed for investment in farm activities that could lead to higher incomes.
- Lack of availability of electricity and/or electricity intermittency as well as its high cost.



Objectives of EDAMA's Eco-Villages Initiative

Focus on marginalized and impoverished areas.

- Improve living conditions by providing clean, sustainable, affordable, and renewable resources of energy.
- Reduce the negative impact of conventional energy resources on the environment.
- Provide a demonstrable example of affordable, sustainable, and environmentally friendly solutions to pressing EWE challenges to be replicated in other villages.
- Inspire positive environmental action and private sector CSR investment in the general public.



Fefa Eco-Village Initiative

EDAMA has begun its work on the first model Eco-Village in Jordan; Fefa. Fefa is a village in the southern Ghor of Jordan, located in Karak governorate. The climate is characterized by a warm winter and a very hot summer, with temperatures ranging between 10 and 45 degrees. The sun is available for almost the entire year.



Why Fefa?

- It is one of the least fortunate areas in Jordan.
- A protected area by the Royal Society for the Conservation of Nature (RSCN) in 1999.
- The Environment is perfect for harnessing solar energy.
- A Manageable size project, it can be turned completely into an Eco-Village, and be a living model for other villages and the public at large.



Fefa in a Nutshell

- 3700 residents, 400 households.
- 235 households are subscribed with EDCO (Electricity Distribution Company), and the rest are either connected to the grid illegally or don't have electricity.
- Total energy consumed in Fefa is
 - 398,000 kWh/year
 - 71,000 JD/year
 - 40,000 JD/year is subsidized by the government.



قرية فيفا
Fefa Village



Fefa Eco-Village – Phase I

Sponsored by the Arab Potash Company to cover 30% of Fefa's electricity consumption.

- 65 kWp of PV systems
- 7 public buildings and 2 dwellings
 - Mosque
 - Health Center
 - Royal Society for the Conservation of Nature
 - Fefa Secondary School for Girls
 - Fefa Secondary School for Boys
 - Kindergarten
 - Female Teachers' Residence
- 3 PV-powered light poles

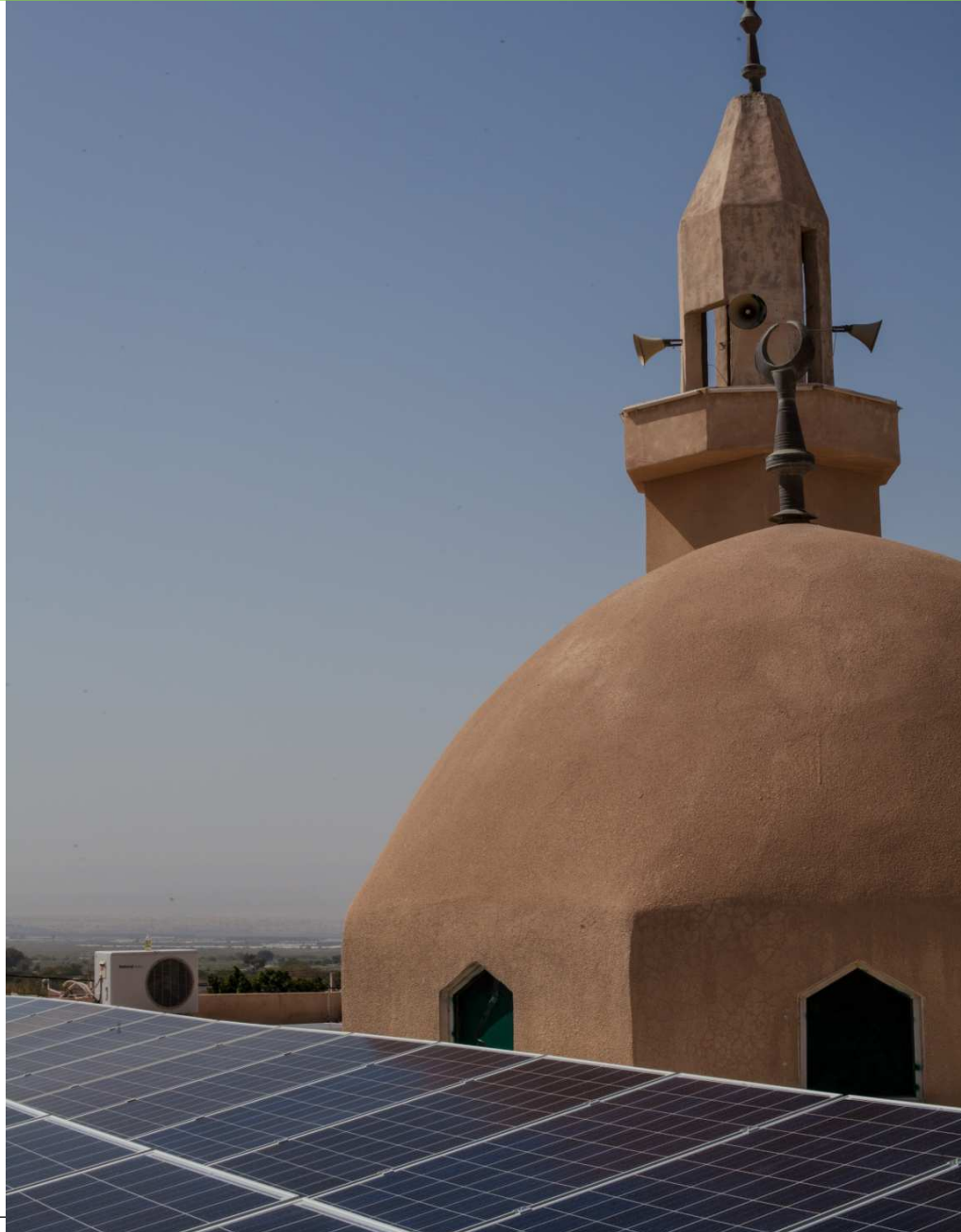


Parties involved in Fefa Eco-Village – Phase I

- Arab Potash Company
- EDAMA
- National Energy Research Center (EDAMA's technical arm) 
- Spectrum (Contractor) 
- Electricity Distribution Company



مسجد فيفا
Fefa Mosque



روضة فيفا
Fefa Kindergarten



مدرسة فيفا الثانوية للبنات
Fefa High School for Girls



مدرسة فيفا الثانوية للبنين
Fefa High School for Boys



منزل في فيفا
Dwelling in Fefa



نظام الطاقة الشمسية على مبنى الجمعية الملكية لحماية الطبيعة
PV System on the RSCN Building



Phase (I) PV System Capacity	65 kWp
Expected Generated Energy	140,400 kWh/y
Expected Customer Savings	JOD 10,951 /y
Subsidy Savings Per Year	JOD 14,180 /y
Customer Savings in 20 Years	JOD 222,066
Subsidy Savings in 20 Years	JOD 287,547
Total Savings in 20 Years	JOD 509,613
CO2 Reduction in 20 Years	1611 Tons

Fefa Eco-Village Project Results

- Make Fefa an eco-friendly village powered by renewable energy.
- Improve the living standards of Fefa residents by:
 - Reducing (almost eliminating) electricity interruptions;
 - Reducing their electricity bills;
 - Assisting with regular provision of water
- Develop training courses for a number of qualified residents in Fefa in order to increase their knowledge related to this initiative, and offer them new future income opportunities.
- Create a market for renewable energy through the Fefa Eco-Village initiative, and similar initiatives in the future.



Thank you!

