Towards COP27: Arab Regional Forum on Climate Initiatives to Finance Climate Action and the SDGs

Project Fact Sheet

Improving the Efficiency of Irrigation Water Use in Irrigated Agriculture among Vulnerable Groups Using Hydroponic Technology

JORDAN

Climate finance purpose
Adaptation
Sector
Agriculture
Geographic coverage
National
Country Wide
Description
Supporting the establishment of hydroponic farming communities in irrigated agricultural areas to help small farmers use soilless farming systems and promote the use of renewable energy (solar energy) in these units. The implementation of the project will create jobs in the greenhouses industry, renewable energy sector and the agricultural sector and will increase the value of irrigation water by increasing productivity and reducing the costs of protected agriculture. This will eventually maximize the attractiveness of investment in agriculture in Jordan and increase the competitiveness of the Jordanian agricultural products.
Beneficiaries
40,400 (0.4% of population) based on the registered small-scale farmers
Climate rationale
While the agricultural sector only provides 19% of Jordan's food requirements and employs only 1.8% of Jordan's workforce, it withdraws 74% of Jordan's limited freshwater resources. The anticipated impacts of climate change on the agriculture sector also includes crop loss or crop failure as a result of less rainfall, increased water demand of crops in response to rising temperatures coupled with reduced water available for irrigation, shortened growing seasons, desertification and degradation of arable land. This anticipated decline in the production and yields of primary staple crops raises concerns about food security and malnutrition.
Expected outcomes
• Improving the efficiency of irrigation water use at the farm level • Increasing food security and food diversity by increasing the availability of sufficient quantities of food of appropriate quality, supplied through domestic production • Promoting cost-effective agricultural goods and reducing the use of scarce water and land resources • Promoting better living conditions for small farmers and vulnerable groups, mainly women and unemployed farmers, through sustainable agricultural development and more efficient use of agricultural resources and technology
GHG reduction target
TBD
Project implementation period (Dependent upon obtaining financing)
2023-2026
Total Project Cost
Amount in National Currency: JOD 7,092,198 Amount in US$ equivalent (per 1 August 2022 exchange rate): USD 10,000,000

13 September 2022

Financing requirement
Amount in National Currency: JOD 7,092,198 Amount in US$ equivalent (per 1 August 2022 exchange rate): USD 10,000,000
Expected Tenor / Duration of financing: 10 years
Project Status: Pre-feasibility
Contractual Structure: Government ownership
Project proponents
Ministry of Agriculture, Ministry of Environment and Ministry of Water and Irrigation
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