

CASE STUDY: Local entrepreneur invests in energy and water-efficient cold storage chambers with Climadapt financing to store fruits for sale in winter time



Having cultivated grapes for 16 years, local entrepreneur Mr. Makhsatullo owns 4 hectares of land with more than 6,400 grape plants and plans to further increase production. The current chillers use a substantial amount of water for cooling and break down often.

With the support of Climadapt financing, Mr Makhsatullo invested in a modern energy and water-efficient cold storage system that will enable grapes to be stored for up to 4 months, storing up to 75 tons worth of quality grapes. The larger capacity of the chamber allows him to provide storage services to neighboring farmers in the region who may not be able to afford storage services on their own.

With an investment size of approximately USD 31,800, he can benefit from annual savings of USD 27,800 with a payback period of about 1.2 years.



The Company

Main activities

Fruit and vegetable storage

Region

Hisor district, West Tajikistan

Project Goals & Main Investments

Project Goals

The Project aims to:

- Ensure supply of fruits during winter
- Increase income due to sale of fruits during the winter season

Main Investments

- Replacement of old storage chambers with energy and water-efficient chambers of larger capacity

Investment Size

- Approximately USD 31,800

Results of the Project

Operational Results

- Energy savings: 53,000 kWh/year
- Water savings: 60,000 m³/year

Investment Profitability

- Annual savings of USD 27,800
- Payback period of about 1,2 years

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