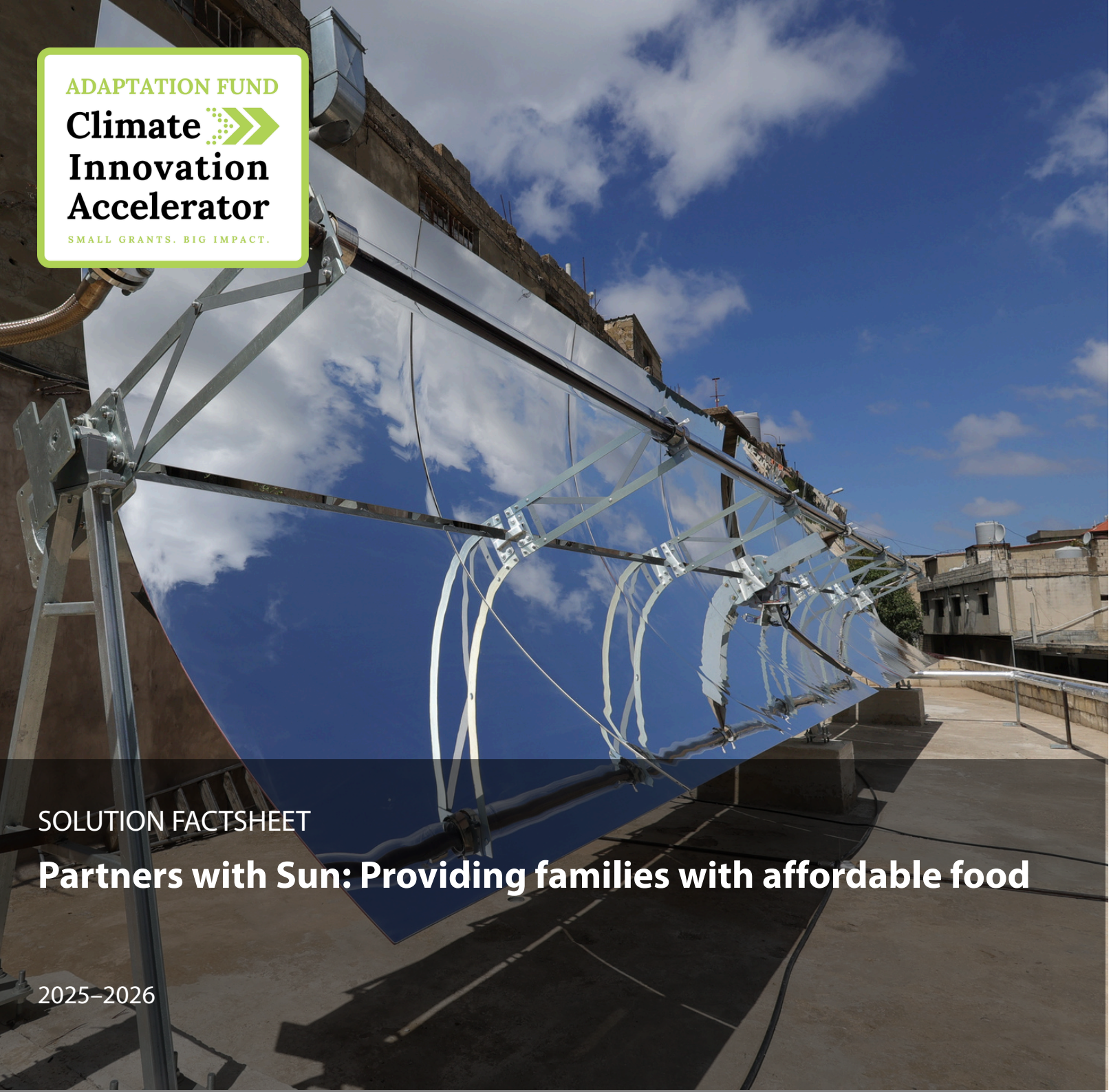


ADAPTATION FUND
Climate Innovation Accelerator
SMALL GRANTS. BIG IMPACT.

SOLUTION FACTSHEET

Partners with Sun: Providing families with affordable food

2025–2026

UN WFP World Food Programme | INNOVATION ACCELERATOR

Solution Summary

Location:
Lebanon

Solution type:
Solar-powered oven

Innovation stage:
Proof of Concept

Grantee:
Partners with Sun S.A.L.

Implementing entity:
World Food Programme

Funding received:
USD 150,000 (Adaptation Fund)

ADAPTATION FUND

The Adaptation Fund Climate Innovation Accelerator provides grants and technical assistance to innovative solutions for adapting to climate change.

Adaptation Innovation

- Partners with Sun (PwS) aims to implement its solar convection ovens in bakeries throughout Lebanon, potentially providing 10,000 families a day with affordable food.
- The company has developed the first industrial solar oven, which is hybrid in nature, capable of operating on solar power, hydrogen, biomass and other clean energy sources.
- This innovation ensures uninterrupted food production in remote areas, strengthens resilience to climate and economic shocks and delivers long-term environmental and socioeconomic benefits.

Climate Impacts

The solution is helping Lebanon adapt to:



Drought and water security



High temperatures and heatwaves



Floods

Key Achievements

- Partners with Sun aims to implement its patented innovation with bakeries in Lebanon. For every 10 ovens installed, the venture has the potential to provide affordable meals to 10,000 families daily, create 100 new jobs and prevent 200 tons of CO_2 emissions.
- The Solar Convection Oven produces 3,000 loaves per day, potentially benefiting up to 3,000 families by providing affordable bread. With a 50 percent reduction in diesel costs, the bakery will significantly lower operational expenses, creating a more sustainable and profitable business.

Replication and Scaling Potential

- The company has immense scalability potential locally, regionally and internationally. It is accessing a USD 80 million market by introducing its product to the bakery industry in Lebanon.
- The solution can be implemented in areas such as Gaza and the Sudan, where energy scarcity and high fossil fuel costs hinder food production.
- PwS can address energy challenges in conflict zones such as Ukraine and other regions with limited access to sustainable food production tools.



To learn more, visit [WFP-AFCIA Partners with Sun]

Investment Potential

- **Business model:** Consisting of three parts: a pay-as-you-go system, a leasing option and the company's own funds and revenue reinvestment.
- **Revenue per year:** USD 62,000
- **Sustainable approach:** The company plans to utilize its business model, combined with its typical sources of funds such as governments, NGOs and business owners, to sustain itself in the long term.

Project Location



Last updated: 30/10/2026