

Advancing resource efficient and cleaner production in Ukraine

The RECP methodology

Resource Efficient and Cleaner Production (RECP) is the integrated and continuous application of preventive environmental strategies to **processes, products, and services** to increase efficiency and reduce risks to humans and the environment. RECP is all about producing with fewer resources while minimizing environmental impacts and increasing overall productivity. For **Small and Medium-Sized Enterprises (SMEs)**, the RECP methodology can effectively lower production costs whilst improving the SMEs' competitive advantage and applying environmentally friendly practices. RECP is also an effective tool to introduce and promote Circular Economy principles among SMEs.

"SUNNY FOOD" LLC - FOOD PRODUCTION

Company overview



Location: Derazhnia, Khmelnytskyi region

Key products: grain flakes

No. of employees: 50

Exportation quota (%): 50

Founding year: 2003

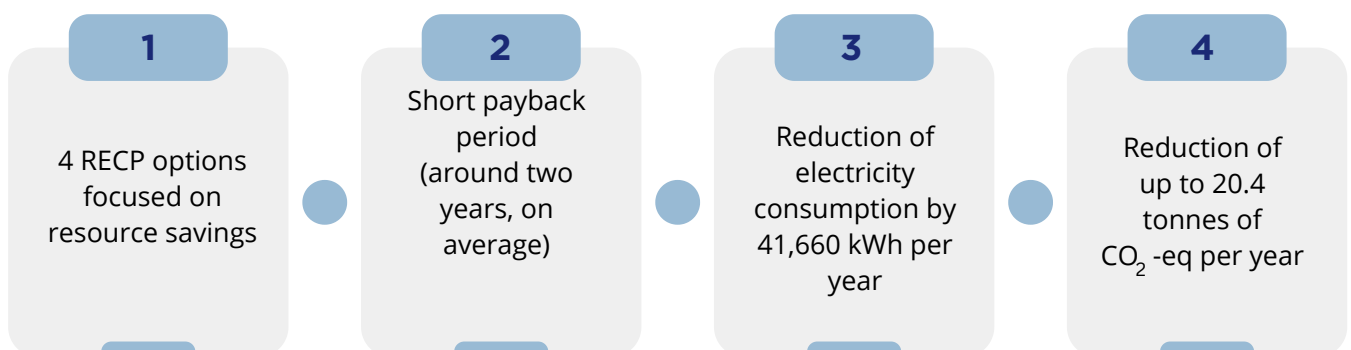
Certifications: HACCP/IFC

Main markets: Poland, Moldova, Romania, Slovakia, Hungary, Ukraine



"Sunny Food", LLC is a medium-sized manufacturer of cereal flakes, holding a significant share in Ukrainian market. It pays special attention to maintaining a diverse range of high-quality products across the entire production process (from inputs to the packaging and design). Moreover, it places a strong emphasis on resource efficiency, actively working to enhance energy-intensive processes, and exploring potential investments in renewable sources of energy. Motivated to modernise its production and technological processes, it participated in the RECP Clubs programme under EU4Environment (2019-2024). This publication shows the company's experience reported after the monitoring exercise from 2023.

BENEFITS FROM IMPLEMENTING RECP OPTIONS



Action implemented by:

The project's approach

With the support of the RECP self-assessment tool and the contribution of the RECP experts, the company developed its RECP Action plan which identified several RECP options, out of which four were prioritised. The suggested RECP recommendations included low and medium-cost measures:

RECP Option 1. Thermal insulation of the heat generators in the dryer: This involves thermally insulating the electric heat generators of the existing dryer, minimising uncontrolled air supply, and providing means to regulate air supply or removal. The measure would significantly reduce heat losses from the drying process. **OR**

RECP Option 2. Replacing the dryer: This measure entails the replacement of the existing dryer with a new, energy-efficient one in order to reduce excess heat losses.

RECP Option 3. Reducing the exhaust air in the dryer.

RECP Option 4. Utilising the flue gas heat from the oven.

SAVING ACHIEVEMENTS

Main RECP actions

OPTION 1	Thermal insulation of the heat generators in the dryer OR
OPTION 2	Replacing the dryer
OPTION 3	Reducing the exhaust air in the dryer
OPTION 4	Utilising the flue gas heat from the oven

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1 OR:	152	593	0.26
Option 2:	15,152	2,291	6.6
Option 3:	364	721	0.5
Option 4:	1,818	1,408	1.3

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)/%
Option 1 OR:	6,984/2.8
Option 2:	16,000/6.4
Option 3:	9,000/3.6
Option 4:	16,600/6.6

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)
Total:	13.7 (or 17.5)*

“ Before participating in the RECP Clubs programme, our company had been implementing some RECP options on its own, and on an ongoing basis. However, it became evident that our employees needed new knowledge, insights about technological processes, and up-to-date solutions from qualified technical experts. Our company aspires to be a leader in innovation, development, and the production of foods that contribute to an easy and healthy lifestyle, to beauty, joy, and harmony. The EU-funded EU4Environment Action and the participation in the RECP Clubs programme have strengthened our capacity to achieve these strategic goals, said the co-owner, Mr. Eduard Shypovich. ”

The introduction of RECP Clubs programme has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, **"Sunny Food", LLC** joined the Clubs programme to be monitored under EU4Environment. Follow-up visits have also been conducted to check on the implementation of the recommended RECP options. EU4Environment helps the EU's Eastern Partnership countries preserve their natural capital and increase people's environmental well-being by supporting environment-related action, demonstrating and unlocking opportunities for greener growth, and setting mechanisms to better manage environmental risks and impacts. For more details, visit: www.eu4environment.org

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