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## Advancing resource efficient and cleaner production in Moldova

### 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.

### “FRAȚII FRUNZE” LTD - PASTA PRODUCER

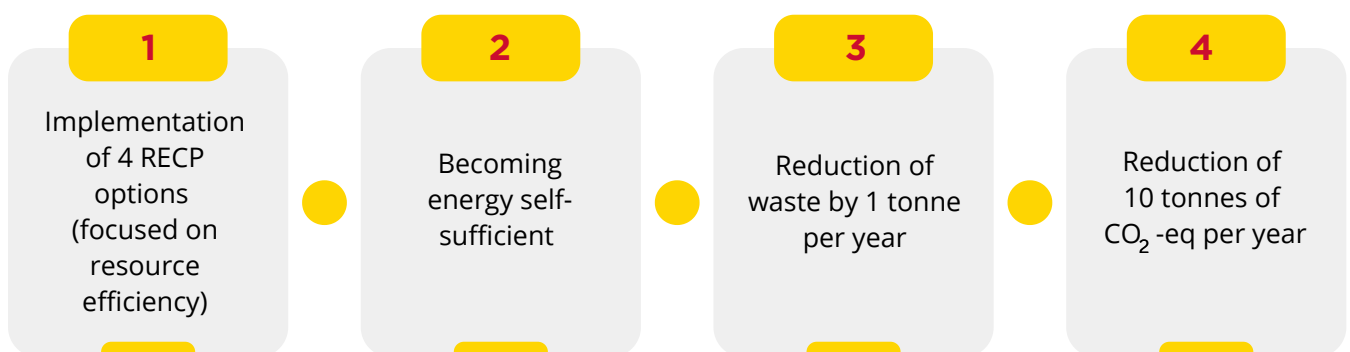


#### Company overview

- Location:** Ceadâr-Lunga
- Key products:** macaroni, noodles, lavash, and other similar products
- No. of employees:** 11
- Main markets:** Moldova
- Founding year:** 2020

"Frații Frunze" is a pasta manufacturer that follows old traditional recipes. The company uses specialised equipment and materials, pays great attention to the quality of ingredients, and carefully respects hygiene, health, and food safety standards. The enterprise is relatively new to the market and is interested in both expanding its activity and investing in resource efficiency tools and practices. Motivated to improve its resource management and monitoring with the active participation of all employees, the company participated in the RECP Demonstration Project under EU4Environment (2019-2024). This publication shows the company's experience reported after the monitoring exercise conducted in 2022-2023.

### BENEFITS FROM IMPLEMENTING RECP OPTIONS



Action implemented by:



# The project's approach

The RECP assessment examined the production site and identified several RECP options, out of which the following four were prioritised by the company:

**RECP Option 1. Installation of a photovoltaic (PV) solar plant.** This would help the company be less energy-dependent and significantly reduce electricity costs.

**RECP Option 2. Acquiring a thermally-insulated LPG-powered vehicle.**

**RECP Option 3. Acquiring a distillation unit to provide soft water for steam generation.**

**RECP Option 4. Installing an extruder for recycling trimming waste.**

## SAVING ACHIEVEMENTS

### Main RECP actions

<b>OPTION 1</b>	Installing a PV solar plant
<b>OPTION 2</b>	Acquiring a thermally-insulated LPG-powered vehicle
<b>OPTION 3</b>	Acquiring a distillation unit to provide soft water for steam generation
<b>OPTION 4</b>	Installing an extruder for recycling trimming recycling

### Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	130,000	23,000	6
Option 2:	30,000	2,000	15
Option 3:	700	500	<2
Option 4:	2,000	1,000	2

### Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)/%	FUEL (M <sup>3</sup> /YR)/%	MATERIALS (TONNES/YR)/%
Option 1:	37,000	/	/
Option 2:	/	25% of fuel cost	/
Option 3:	/	/	/
Option 4:	/	/	1

### Total pollution reduction

RECP OPTIONS	TOTAL CO <sub>2</sub> -EQ (TONNES/YR)	WASTE (TONNES/YR)
Total:	10	1

“ Our company joined the project to optimise the efficiency of the production process, since the market for lavash is small, yet competitive in Moldova. Thanks to the RECP Demonstration Project, we learned how important it is to include our own employees in the improvement processes. As we plan to expand our production on the market, the RECP Project has inspired us to come up with new ideas and approaches regarding implementation of RECP measures in the near future, said the company owner, Ms. Natalia Frunze. ”

The introduction of RECP has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, **Fratii Frunze** joined the RECP Demonstration Project 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](http://www.eu4environment.org)

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