



Funded by
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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.

“FINPLAST-PRIM” LTD - PLASTIC RECYCLING

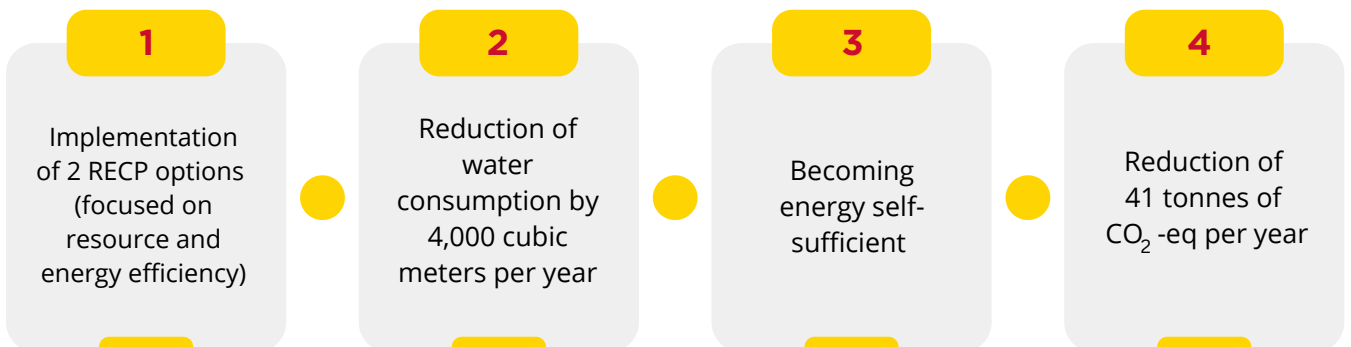


Company overview

- Location:** Bălți
- Key service:** plastic recycling
- No. of employees:** 60
- Main markets:** Moldova, Romania, Ukraine, Germany, Austria
- Exportation quota (%):** 80
- Founding year:** 2008
- Certifications:** authorisation 005, number 033/2011

"Finplast-Prim" carries out the recycling of polymer waste and waste paper, categorised as commercial waste. It works in accordance with the environmental legislation in force, based on the rules issued by the Environment Agency and other authorities relevant to this entrepreneurial activity. The enterprise owns three production lines: two are used for plastic recycling through different granulation methods, with the third being used for paper and cardboard recycling. Motivated to become energy-independent and reduce wastewater, 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 two were prioritised by the company. The suggested RECP recommendations require a payback period of six years:

RECP Option 1. Installing photovoltaic (PV) solar panels: This measure consists of installing a PV plant with a nominal power of 120 kW to cover the energy needs of the company, helping it become less energy-dependent and significantly reducing electricity costs.

RECP Option 2. Installing a wastewater treatment plant: This measure consists of implementing a wastewater treatment system to remove the contaminants from the sewage and produce an effluent that could be reused and is suitable to discharge to the surrounding environment.

SAVING ACHIEVEMENTS

Main RECP actions

| | |
|----------|---|
| OPTION 1 | Installing PV solar panels |
| OPTION 2 | Installing a wastewater treatment plant |

Economic key figures

| RECP OPTIONS | INVESTMENT (EUR) | SAVINGS (EUR/YR) | PAYBACK PERIOD (YR) |
|--------------|------------------|------------------|---------------------|
| Option 1: | 540,000 | 95,000 | 6 |
| Option 2: | 100,000 | 17,000 | 6 |

Resource savings

| RECP OPTIONS | ELECTRICITY (KWH/YR)/% | WATER (M ³ /YR)/% |
|--------------|------------------------|------------------------------|
| Option 1: | 150,000 | / |
| Option 2: | / | 4,000 |

Total pollution reduction

| RECP OPTIONS | TOTAL CO ₂ -EQ (TONNES/YR) |
|--------------|---------------------------------------|
| Total: | 41 |

“ The company joined the project to get an unbiased and external opinion on the current environmental management system. Thanks to the RECP Demonstration Project, we learned how to use new tools in measuring our performance, such as flowcharts, input and output analysis, and root-cause analysis. As we plan to emphasise our focus to continuously monitor and benchmark, the RECP Project has inspired us to come up with new ideas and approaches regarding implementation of RECP measures in the, said the company representative. ”

The introduction of RECP has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, **Finplast-Prim** 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

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