



Funded by the European Union



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.

“CEBOTARU DOINIȚA” PE - CLOTHING MANUFACTURER

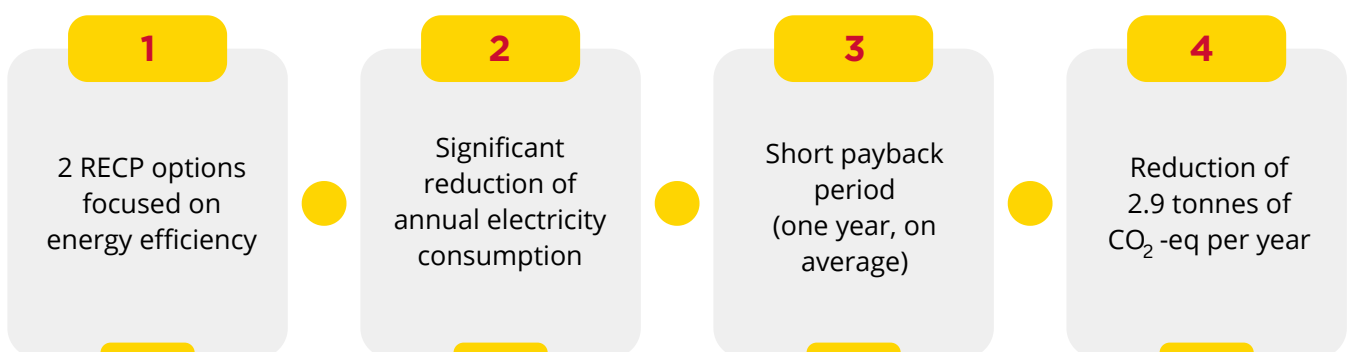


Company overview

- Location:** Cahul
- Key products:** apparel
- No. of employees:** 10
- Main markets:** Moldova
- Founding year:** 2018

“Cebotaru Doinița” is a renowned manufacturer of women’s apparel. Its garments are made out of premium raw materials and sold nationwide. The production activities take place in two rooms on the first and second floor of the company’s building. Here, the sewing machines and several steam ironing systems are located. Overhead lights are used to illuminate the premises, while local lighting is used on the sewing machines to ensure ample light for each workplace. The company’s future plan is to increase its production volume. Motivated to reduce electricity consumption, the company participated in the RECP Clubs programme under EU4Environment (2019-2024). This publication shows the company’s experience reported after the monitoring exercise conducted in 2021-2024.

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 less than two years:

RECP Option 1. Replacing fluorescent lamps with light-emitting diode (LED) ones: This measure consists of replacing the outdated fluorescent lamps with LED ones, which would significantly reduce electricity consumption and improve the working environment for the seamstresses.

RECP Option 2. Replacing the sewing machines's friction motors with servo drives: This measure consists of replacing the energy-inefficient friction motors with servo drives, which would significantly reduce electricity consumption.

SAVING ACHIEVEMENTS

Main RECP actions

OPTION 1

Replacing fluorescent lamps with LED ones

OPTION 2

Replacing the sewing machines' friction motors with servo drives

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	150	215	0.7
Option 2:	3,000	2,178	1.4

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)/%
Option 1:	1,076/54
Option 2:	7,279/44

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)
Total:	2.9

“ Our company joined the project to reduce electricity consumption and affiliated costs. Thanks to the RECP Clubs programme, we learned how to analyse the efficiency of our resource use and the environmental impact of the enterprise's operations. As our company plans to increase production volume and product range, the RECP project has inspired us to come up with new ideas and approaches regarding the implementation of RECP measures in the future, said the director, Ms. Doina Cebotaru. ”

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