



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.

"TURNACONSTRUCT" LTD - METALLIC CONSTRUCTIONS

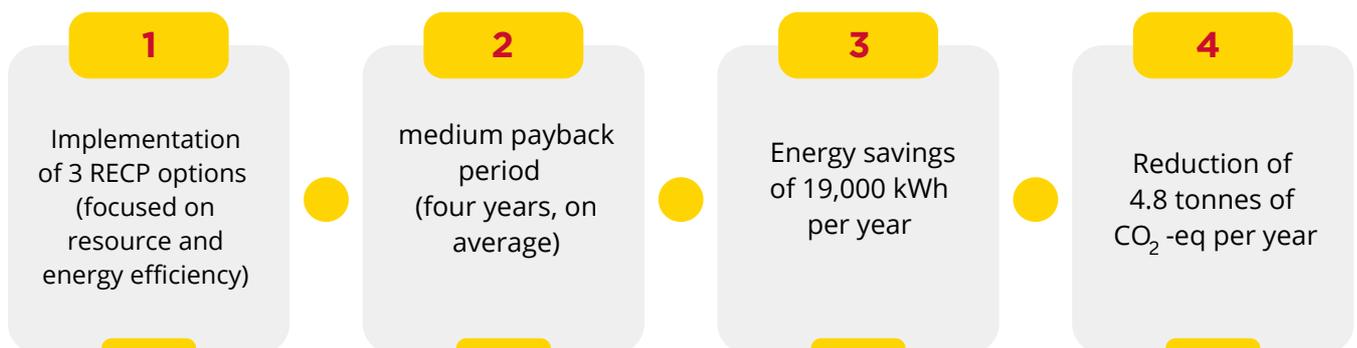


Company overview

Location: Ceadr-Lunga
Key products: metallic constructions, water towers
No. of employees: 14
Main markets: Moldova
Founding year: 2014

"Turnaconstruct" is specialised in the production of metallic constructions for water towers and other infrastructure projects, based on customer demands. The production area is situated in an old industrial park and consists of a hangar-type building. Moreover, the company has its own welding section as well as transportation units with cranes to ensure the final montage and any needed touch-ups. Motivated to track down monthly material consumption and improve its resource efficiency, the company participated in the RECP Demonstration Project under EU4Environment (2019-2024). This publication shows the company's experience reported after the monitoring exercise completed 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 three were prioritised by the company. The suggested RECP recommendations require a payback period of five years or less:

RECP Option 1. Optimisation of the compressed air system: This consists of checking the current system for potential leaks, setting the system on an idle mode outside the working hours, and operating it at the minimum needed pressure. This would significantly reduce electricity consumption.

RECP Option 2. Installing light-emitting diode (LED) lights : By replacing the currently-used tube and halogen lights with LED one, electricity consumption would be significantly reduced and the company personnel would enjoy better-quality lighting.

RECP Option 3. Acquisition of a laser welding machine: This measure consists of purchasing a new laser welding machine instead of conventional MIG/MAG welding equipment used with standard transformers. It would provide a higher-quality welding and reduce electricity consumption.

SAVING ACHIEVEMENTS

Main RECP actions

OPTION 1	Optimisation of the compressed air system
OPTION 2	Installing LED lights
OPTION 3	Acquisition of a laser welding machine

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	50	600	<1
Option 2:	2,000	400	5
Option 3:	3,000	900	4

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)/%
Option 1:	6,000
Option 2:	4,000
Option 3:	9,000

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)
Total:	4.8

The introduction of RECP has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, **Turnaconstruct** 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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United Nations Industrial Development Organization
Ms. Tatiana Chernyavskaya
EU4Environment Project Manager
Tel: +43 1 26 0 26 5520
E-mail: t.chernyavskaya@unido.org



Organisation for Entrepreneurship Development
Bulevardul Ștefan cel Mare și Sfânt 134
Chișinău, Republica Moldova
Tel: +373 22 295 741
E-mail: info@oda.md