

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.

“ROBINSON TEAM” PE - TEXTILE PRODUCTION



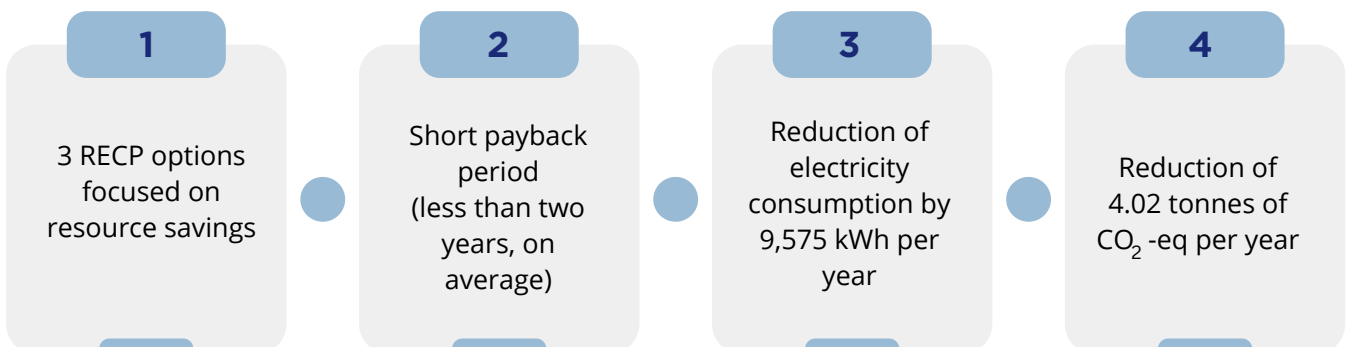
Company overview

Location: Khmelnytskyi
Key products: knitwear
No. of employees: 35
Main markets: Ukraine
Founding year: 2011



“Robinson Team” PE (Private Enterprise) is a light industry company specialised in the production of knitwear for children (ages 1-14). Located in the city of Khmelnytskyi it currently employs 35 individuals. Founded in 2011, the company sells its products on the domestic market. Faced with challenges related to excess consumption of electricity and water, along with high production costs, the enterprise sought, to analyse the causes of the excess consumption and reduce operating costs. As a result, Robinson Team PE participated in the RECP Clubs programme under EU4Environment (2019-2024). This publication shows the company's experience reported after the monitoring exercise conducted in 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 three were prioritised. The company successfully implemented the first option and is implementing the second RECP measure:

RECP Option 1. Heat insulation of the drying oven: This measure consisted of insulating the drying oven by installing two protective heat-insulating boxes made of foil-coat at the outlet of the drying oven and along the bottom length of the conveyor belt. This helped to simultaneously reduce heat loss and electricity consumption.

RECP Option 2. Replacing the motors on sewing machines: Replacing the old friction motors on the sewing machines with new, servo motors would help decrease the overall electricity consumption of the machines during the production processes.

RECP Option 3. Installing aerators: This measure would reduce the water consumption for the household needs by 10%.

SAVING ACHIEVEMENTS

Main RECP actions

OPTION 1	Heat insulation of the drying oven
OPTION 2	Replacing the motors on sewing machines
OPTION 3	Installing aerators

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	43	100	0.4
Option 2:	2,730	715	3.8
Option 3:	15	16	0.9

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)/%	WATER (M ³ /YR)/%
Option 1:	1,175/1.6	/
Option 2:	8,400/11.4	/
Option 3:	/	55/10

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)	WASTEWATER (M ³ /YR)/%
Total:	4.02	55

“ We enrolled in the RECP Clubs programme to acquaint ourselves with the RECP methodology, and initiate a modernisation process by applying measures that identify inefficiencies in our equipment and the way we use resources in the production processes. By participating in the EU4Environment Action and working to implement the recommended RECP options, we have witnessed a substantial reduction in operating costs. These savings have been instrumental in facilitating the modernisation and expansion of our production, said the director, Mr. Oleksandr Sukhovor'skiy. ”

The introduction of RECP Clubs programme has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, "Robinson Team", PE 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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