



Funded by the European Union



Advancing resource efficient and cleaner production in Azerbaijan

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 is an effective means to 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.

ALYANS TEXTILE LLC - TEXTILE INDUSTRY



Company Overview

Location: Sumgayit

No. of employees: 134

Main markets: Azerbaijan

Founding year: 2009

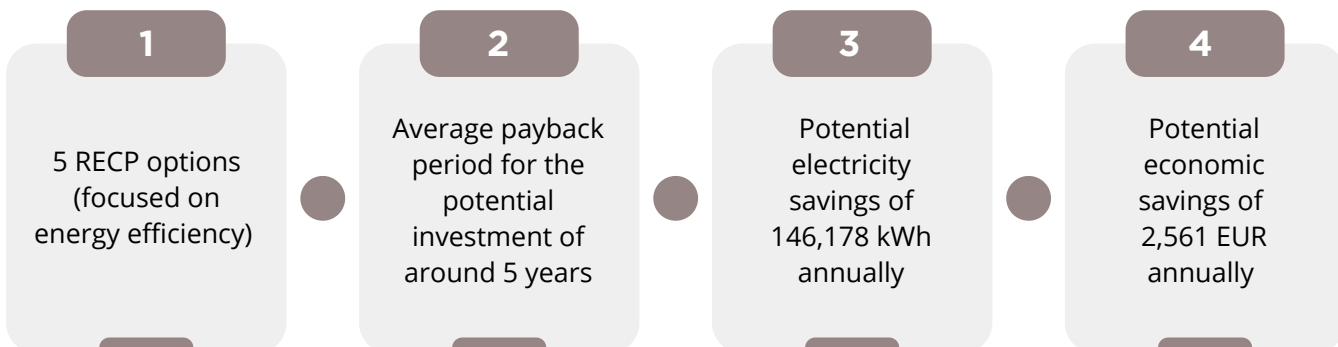
Key products: uniforms, shirts, jackets

Certifications: ISO 9001:2015, ISO 45001, ISO 14001



“Alyans Tekstil” or “Alyans Textile” LLC is a leading manufacturer of specialised garments and clothing. The company produces a wide range of products using modern, high-precision equipment imported from Europe. These products include garments made from natural materials and various blends, featuring technical fabrics such as oil- and water-repellent, acid-resistant, antistatic, flame-retardant, and other specialised materials designed to meet the stringent requirements of specific industries. Motivated to address production costs, the company participated in the RECP Demonstration Project under EU4Environment (2019-2024). This publication details the company’s experience reported after the assessment exercise conducted in 2024.

BENEFITS



Action implemented by:



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION



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The project's approach

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

RECP Option 1. Installing capacitor banks: A new draft regulation mandates that enterprises maintain power factors within specified intervals, with deviations incurring penalties. Capacitor banks could ensure compliance, reduce electricity consumption, compensate for reactive power, and minimise network losses.

RECP option 2. Energy management training for employees: This initiative would cultivate a stronger energy-saving culture within the enterprise, increase capacity, and raise awareness among staff members.

RECP option 3. Replacing conventional lamps with LED ones: As many lamps within the enterprise are outdated, replacing them with LED lamps would significantly lower electricity consumption.

RECP option 4. Updating the design of the lightning system to a cascade type: This would equip each worker in the sewing workshop with an individual tumbler switch, improving efficiency via targeted lighting use.

RECP option 5. Installing heat recuperators: Heat recuperators with a capacity of 150-170 m³ would help reduce electricity consumption during the summer season (for approximately for six months).

SAVING ACHIEVEMENTS

RECP measures

OPTION 1	Installing capacitor banks
OPTION 2	Energy management training for employees
OPTION 3	Replacing conventional lamps with LED ones
OPTION 4	Updating the design of the lightning system to a cascade type
OPTION 5	Installing heat recuperators

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Total:	15,499	2,561	5.3

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YEAR)
Total:	146,178

Total pollution reduction

RECP OPTIONS	CO ₂ -EQ (T/YR)
Total:	108.2

“ Before joining the RECP Demonstration project, energy saving was not our primary focus; now this has changed. Regardless of our roles within the enterprise, we must prioritise protecting our world and minimise resource use, as every resource is finite. To achieve energy savings, we have decided to upgrade our current machines. It is our responsibility to take care of our planet and make an efficient use of our resources, said Mr. Cesur Aliyev. ”

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