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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.

“C.Q. PARTNERS” LLC MANUFACTURER OF CONCRETE, CEMENT, AND PLASTER



Company Overview

Location: Baku

Key products: concrete

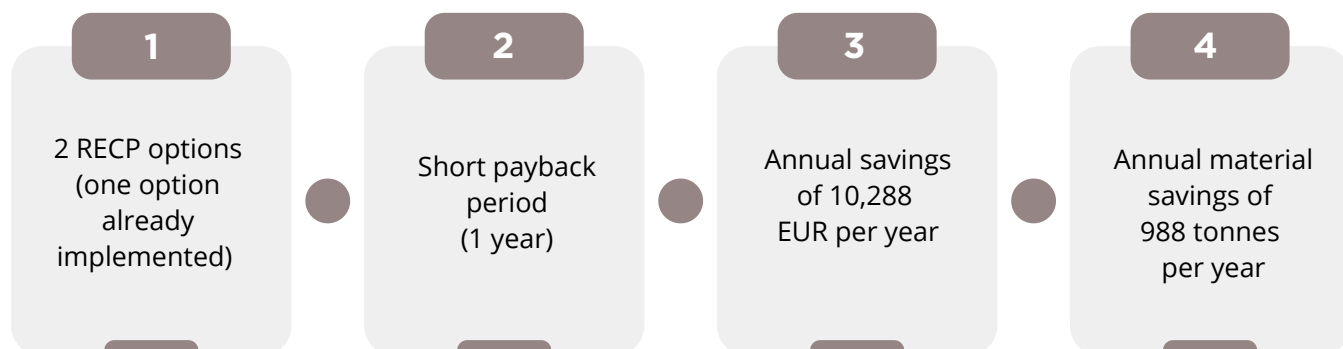
No. of employees: 24

Main markets: Azerbaijan

Founding year: 2022

“C.Q. Partners” LLC is a concrete plant, built on the construction site of a residential complex, where 27 residential buildings are planned for construction. The uniqueness of this plant lies in its production process, which requires loading the ingredients for the concrete mixture directly into the truck mixer, without prior mixing in a concrete mixer. This helps the plant produce precisely measured portions of gravel, crushed stone, sand, cement, and water, tailored for each batch. The facility includes two silos with volumes of 90 m³ and 125 m³, as well as a platform for storing inert ingredients. The concrete trucks are washed on-site, first with acid, and then with clean water. Motivated to address production costs and waste, the company participated in the RECP Clubs project under EU4Environment (2019-2024). This publication details the company’s experience reported after the assessment exercise conducted in 2024.

BENEFITS



Action implemented by:



The project approach

The RECP assessment examined the production site and identified several opportunities, out of which the following two were prioritized by the team, with the first measure being already implemented by the company staff:

RECP Option 1: Improving the control of raw materials: This measure recommended installing an industrial scale to weigh the inert materials for trucks of various sizes, ensuring accurate measurement and volume control of the raw materials entering the concrete plant.

RECP Option 2: Improving material balance: This measure recommended comparing the material balance of each concrete grade with the recipe approved by the Ministry of Emergency Situations of the Republic of Azerbaijan, to ensure consistency and quality.

SAVING ACHIEVEMENTS

RECP measures

OPTION 1	Improving the control of raw materials
OPTION 2	Improving material balance

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	10,807.47	10,288	1

Resource savings

RECP OPTIONS	MATERIAL (T/YR)
Option 1:	988

The introduction of RECP has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, "C.Q. Partners" LLC joined the RECP Clubs training and assistance 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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