



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.

"KALO" - EGGS PRODUCTION



Company overview

Location: Dedoplistskaro, Kakheti

Key products: eggs

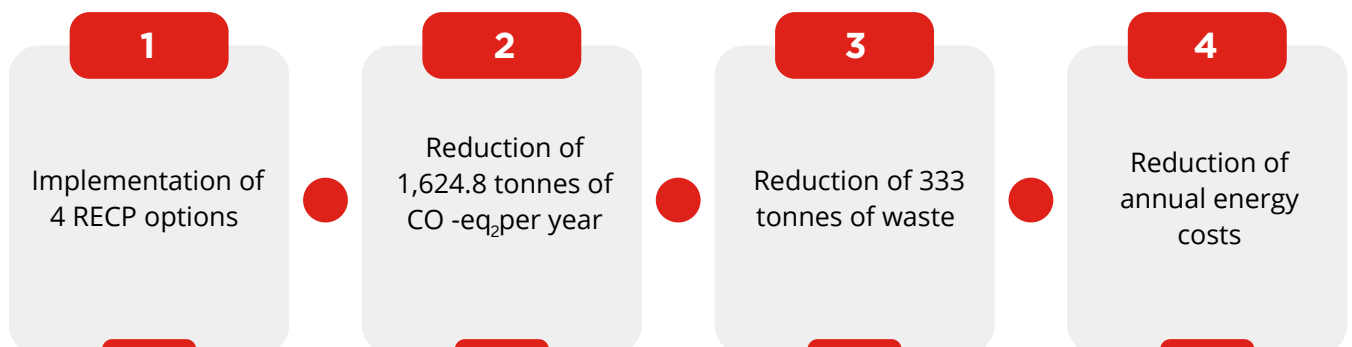
No. of employees: 6

Main markets: Georgia

Founding year: 2018

"Kalo" is an eggs producer from Dedoplistskaro. Its staff was actively involved in the activities related to the RECP Clubs, including the training course on business environmental profile, energy efficiency, water efficiency and wastewater minimization, materials efficiency and waste minimization, the responsible use of chemicals, hazardous waste, and means to reduce emissions. The course resulted in the development of the RECP Action Plan which included four RECP options. As a result of the pandemic, the company struggled with the allocation of internal financial resources and access to investments or appropriate loans to implement the RECP measures. Motivated to improve resource efficiency and reduce energy 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.

BENEFITS FROM IMPLEMENTING RECP OPTIONS



The project's approach

The RECP assessment examined the production site and identified several RECP options, out of which the following four were prioritized. The suggested RECP recommendations included medium-cost measures:

RECP Option 1. The installation of a photovoltaic (PV) system: a new PV system with a capacity of 25 kW that would help generate the electricity needs of the company, reducing, at the same time, the CO₂-eq emissions.

RECP Option 2. The installation of a solar-based water heater: this new system would help save the energy required for heating water.

RECP Option 3. The establishment of a manure composting scheme (collection of dry matter): the measure would facilitate the collection and selling of the dry matter for the price of approximately 24 EUR per tonne.

RECP Option 4. The use of electric vehicles instead of diesel-powered ones: this entails the replacement of diesel-powered mini-vans with electric ones in order to reduce the costs of transportation and the respective amount of CO₂-eq emissions.

SAVING ACHIEVEMENTS

RECP measures

OPTION 1	The installation of a photovoltaic system
OPTION 2	The installation of a solar-based water heater
OPTION 3	The establishment of a manure composting scheme
OPTION 4	Replacing diesel-powered vehicles with electric ones

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	22,500	3,506.25	6.4
Option 2:	6,000	3,789	1.6
Option 3:	5,000	8,331	0.6
Option 4:	15,000	5,900	2.5

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)
Option 1:	42,500
Option 2:	15,464
Option 3:	/
Option 4:	62,267

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)	WASTE (TONNES/YR)
Option 1:	5.95	/
Option 2:	/	/
Option 3:	/	333.25
Option 4:	1,618.9	/

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