



## 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.

## “TSALKA MILK PRODUCTS” LLC - DAIRY PRODUCTION



### Company overview

**Location:** Tsalka, Lower Kartli

**Key products:** dairy

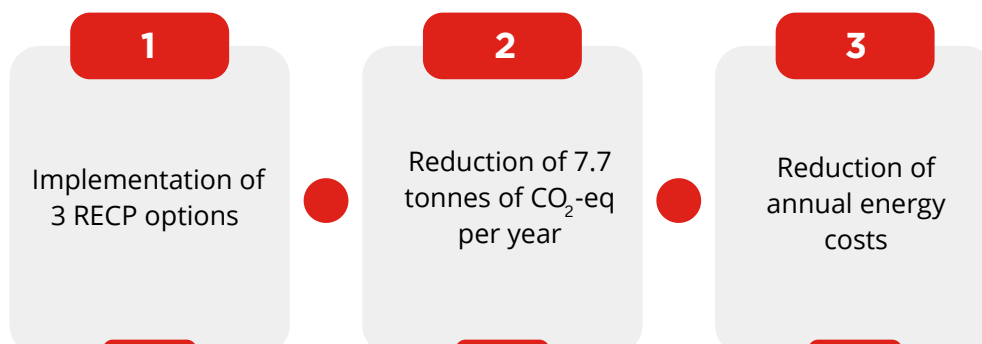
**No employees:** 5

**Main markets:** Georgia

**Founding year:** 2019

“Tsalka Milk Products” is a dairy producer from Tsalka. 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 three RECP options. Due to the pandemic, it was challenging for the enterprise to allocate internal financial resources and find 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 three were prioritized. The suggested RECP recommendations included medium-cost measures:

**RECP Option 1.** Replacing the electric water heater with a solar-based one: the replacement of the old heater with a solar-based heating system would help save the energy required for heating water, and significantly reduce CO<sub>2</sub>-eq emissions.

**RECP Option 2.** The installation of a photovoltaic (PV) system: the installation of PV system with a capacity of 10 kW would help generate the electricity needed for the production processes, reducing, at the same time, the levels of CO<sub>2</sub>-eq emissions.

**RECP Option 3.** The installation of a gas-based steam boiler: this option would help reduce energy consumption and costs, as natural gas is more cost-effective.

## SAVING ACHIEVEMENTS

### RECP measures

<b>OPTION 1</b>	Replacing the electric water heater with a solar-based one
<b>OPTION 2</b>	The installation of a photovoltaic system
<b>OPTION 3</b>	The installation of a gas-based steam boiler

### Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	12,000	3,134	3.8
Option 2:	9,000	1,403	6.4
Option 3:	4,000	1,874	2.1

### Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)
Option 1:	37,993
Option 2:	17,000
Option 3:	/

### Total pollution reduction

RECP OPTIONS	TOTAL CO <sub>2</sub> -EQ (TONNES/YR)
Option 1:	5.3
Option 2:	2.38
Option 3:	/

The introduction of RECP has been part of the EU-funded EU4Environment Action and executed by UNIDO. In this context, **Tsalka Milk Products** 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](http://www.eu4environment.org)

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