



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.

"VAZIANI" LTD - WINE PRODUCTION



Company overview

Location: Telavi

Key products: wine

No. of employees: 22

Main markets: Georgia, Europe, Japan, the US, Central and Eastern Asia

Founding year: 1982

Certifications: ISO 22000



"Vaziani" was founded in 1982 and modernized in 2012. The restructured factory has been equipped with modern machinery from Italy, and with reservoirs made out of non-corrosive metal. Annually, it produces around 1.5 million bottles and 24 different types of Georgian wine. The main markets are however outside Georgia, with the company aiming to establish stable international partnerships. Also, besides being associated with the Georgian culture, the winery closely follows international developments and actively seeks new trends and strategic objectives that will contribute to the further development of the company as the country's main brand. Motivated to decrease energy costs and increase energy efficiency, the company participated in the RECP Demonstration Project under EU4Environment (2019-2024). This publication shows the company's experience reported after the monitoring exercise.

BENEFITS FROM IMPLEMENTING RECP OPTIONS

1

Implementation
of 1 RECP option
(focused on
energy
efficiency)

2

Reduction of 3
tonnes of total
CO₂-eq per
year

3

Reduction of
energy
consumption per
tonne of product

4

Reduction of
annual energy
costs

Action implemented by:

The project's approach

The RECP Demonstration Project provided the company with guidance and technical assistance. As a result, the company team was able to follow a systematic approach to develop a RECP action plan and gained knowledge to introduce RECP as a continuous improvement cycle. The RECP assessment examined the production site and identified several RECP options, out of which one based on energy efficiency was prioritized and implemented in August 2021:

RECP Option 1. Replacement of the old refrigerator with a new one: The measure consisted of renovating the old cooling system and replacing the old, inefficient refrigerator with a new, modern, and energy-efficient device. This resulted in improved safety of the device's lifecycle and in an improved energy efficiency ratio and coefficient of performance of the cooling system. In addition, the measure also helped decrease annual electricity costs.

SAVING ACHIEVEMENTS

RECP measure

OPTION 1

Replacement of the old refrigerator with a new one

Economic key figures

RECP OPTIONS	INVESTMENT (EUR)	SAVINGS (EUR/YR)	PAYBACK PERIOD (YR)
Option 1:	60,000	3,223	18.6

Resource savings

RECP OPTIONS	ELECTRICITY (KWH/YR)
Option 1:	28,500

Total pollution reduction

RECP OPTIONS	TOTAL CO ₂ -EQ (TONNES/YR)
Total:	3

“ The company was trying to reduce its electricity consumption and high annual energy costs. Thanks to the experience gained through the UNIDO RECP Demonstration Project, the staff learned about the importance to upgrade technology and invest in awareness raising among employees. This is especially important now, considering the company's national and international ambitions and efforts to keep producing high-quality wine. Given the plans to invest in international partnerships, the RECP project has helped the company be more efficient and competitive, said the main technologist, Mr. Zurab Akhalmosulishvili. ”

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