





Advancing resource efficient and cleaner production in Georgia

-The RECP methodology-

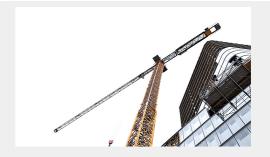
Resource Efficient and Cleaner Production (RECP) is the integrated and continuous application of preventive environmental strategies to **processes**, **products**, **and services** to increase efficiency and reduce risks to humans and the environment. RECP is all about producing with fewer resources while minimizing environmental impacts and increasing overall productivity. For **Small and Medium-sized Enterprises (SMEs)**, the RECP methodology is an effective instrument to lower production costs whilst improving the SMEs' competitive advantage and applying environmentally friendly practices. As well, RECP is considered an effective tool to introduce and promote Circular Economy principles among SMEs.

STANDARD AND NON-STANDARD CONSTRUCTIONS

Company overview

Key products: production, maintenance, and repair of various standard and non-standard constructions (buildings, metal-based constructions, domestic and industrial products)

Main markets: local market



This Georgian company was part of the EaP GREEN programme in 2013-2017 and the 2019-2020 RECP monitoring under the EU4Environment Action.

The enterprise was engaged in the production, maintenance, and repair of various metal-based constructions. In addition, the company owned a facility for incinerating hazardous waste, supporting thus the collection of such waste from other companies. In 2015, it produced 755 tonnes of metal-based constructions and incinerated 121 tonnes of hazardous waste. Motivated to decrease its energy consumption, improve its environmental and technical performance, and reduce costs, whilst seeking to expand to new markets, the company joined EaP GREEN in 2015. This publication shows the company's experience reported after the monitoring exercise conducted in 2020, five years after the programme ended.

Benefits

- Implementation of one RECP option focused on material savings
- Short payback period for the required investment (approximately one year)
- Annual material savings of: 16 tonnes
- O Annual cost savings of: 25,000 EUR















The project's approach

During the **RECP monitoring**, the production site was examined and one RECP option with a short payback period was taken forward:

Insulation of the plasma cutter. By insulating the plasma-based metal cutter, the company registered both material and capital savings.

Saving achievements

RECP MEASURES

RECP option: Insulation of the plasma cutter



ECONOMIC KEY FIGURES

Investment Saving PBP (Euro) (Euro/year) (years)
RECP option: 24,000 25,000 1.0



RESOURCE SAVINGS

Materials (electrodes)

(t/year)

RECP option: 16.25



Company insight

Thanks to the positive experience recorded under the RFCP Demonstration Project, company was able to look into opportunities to increase its production capacity. As well, the management staff considering new means to raise quality of production, increase general awareness, and improve the administration of resources and energy, as well as the minimization of waste.

The company was motivated to join the RECP Project to learn about new means to reduce excessive waste materials (primarily metal and oil). Before the Project commenced, most of our issues focused on waste materials (metal waste) for which it lacked a concrete policy or approach. Thanks to the RECP experience, the company was confident in its plans to improve production quality and capacity.

The introduction of RECP has been part of the EU-funded programmes: **EaP GREEN** (2013-2017) and **EU4Environment Action** (2019-2022) executed by UNIDO. In this context, the company joined the RECP training and assistance programme under EaP GREEN, and was monitored under EU4Environment. Follow-up visits have also been conducted under EU4Environment, to check on the implemented RECP options after the EaP GREEN Programme ended. 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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