

RECP Experiences at Prevent Ltd.

The efficient and environmentally sound use of materials, energy and water - coupled with the minimization of waste and emissions - makes good business sense. Using Resource Efficient and Cleaner Production (RECP) this can be achieved in a holistic and systematic manner. RECP applies preventive management strategies to improve natural resources productivity, minimize generation of waste and emissions, and foster safe and responsible production. As experiences of Prevent Ltd. Bosnia and Herzegovina show, benefits are obvious in many enterprises, regardless of their line of business, location or size.

Achievements at a Glance

Compressor station, stetner machine and laminating machines, as well as lines for painting have been identified as significant consumers of energy in textile production. Heat from the stetner machine is wasted, as well as the heat contained in the waste water from the dyeing process. The company decided to focus on heat recovery from the stetner machine. This will result in annual savings of EUR 35,000, with investment of EUR 140,000 and payback time of 2 years.



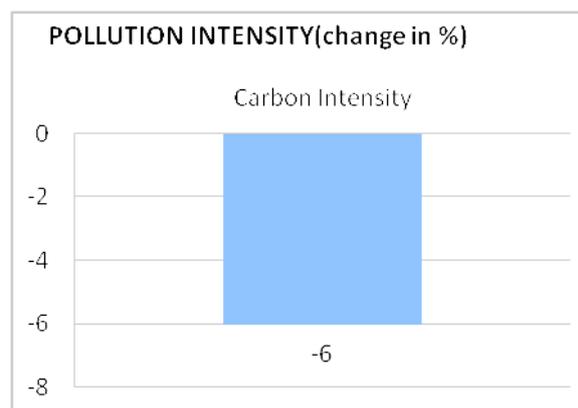
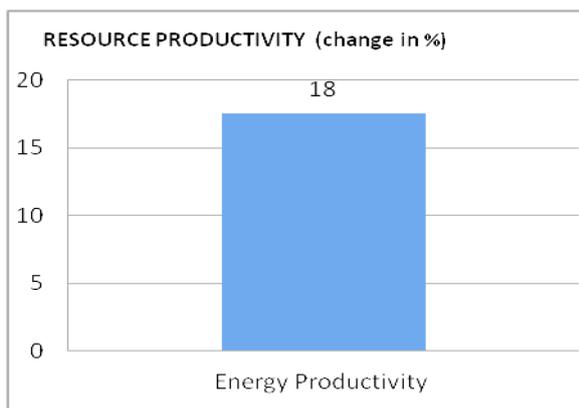
Overview

The company produces textile and leather upholstery for cars, with an installed capacity of 10,000 m² / day. Prevent Fabrics was established in 2012 as a part of the Prevent Group, world leader with a wide assortment of products ranging from leather and fabric production to metal components for sewing and cutting services. With years of experience and knowledge, the company is a strategic partner of the world's leading automobile manufacturers (Audi, BMW, Citroen, Peugeot, Ford). The company currently employs 165 workers. The company plans to implement ISO standard 14001: 2004.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-15	Energy Productivity	18
Pollution generated		Pollution Intensity	
Air Emissions (global warming, CO2 eq.)	-6	Carbon Intensity	-6

RECP profile

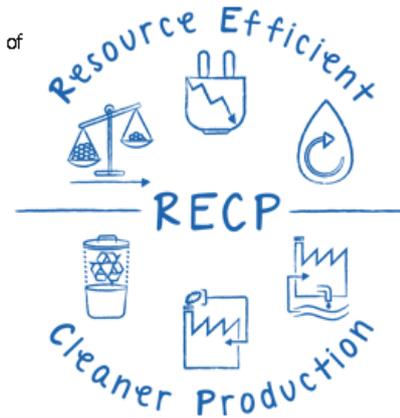


Resource Efficient and Cleaner Production (RECP)

Resource Efficient and Cleaner Production (RECP) entails the continuous application of preventive environmental strategies to processes, products and services to increase efficiency and reduce risks to humans and the environment.

RECP addresses three sustainability dimensions individually and synergistically:

- *Production efficiency*
 - > Through improved productive use of natural resources by enterprises
- *Environmental management*
 - > Through minimization of the impact on nature by enterprises
- *Human development*
 - > Through reduction of risks to people and communities from enterprises and supporting their development



Success Areas

RECP measures	Benefits				
	Economic			Resources	Waste flow
	Investment EURO	Savings (EURO/year)	Pay back period	Reductions in energy use, water use and/or materials use (per annum)	Reductions in waste water, air emissions and/or waste generation (per annum)
Exhaust hot air heat recovery at the stetner machine	140,000	70,000	2 years	Gas 50,000 m ³	CO ₂ 565.4 t



RECP Experiences



Approach taken

The Company participated in the National Cleaner Production Program in Bosnia and Herzegovina as one of the ten selected companies. The RECP assessment was performed by the company team and national experts trained in RECP methodology. The RECP assessment was supervised by international experts. The purpose of assessments made at the beginning of the project was to prepare a material balance, an energy balance and balances of water consumption and wastewater. It was not possible to determine the water and waste water balance as the company shares these resources with other companies in the industrial park without metering. The company identified several areas for improvement, such as heat recovery from waste water from dying machine and heat recovery from stetner machine. However, the company management decided to move the dying line to another factory, so they have selected heat recovery from statner machine as the only RECP measure to be implemented.

Testimony Box

National Cleaner Production Program in Bosnia and Herzegovina

The program is designed to foster expertise, service delivery capacity and implementation of RECP practices and policies in the country, building on UNIDO's experience in supporting National Cleaner Production Programmes (NCPPs) and Centres (NCPCs), in collaboration with UNEP, under the global joint RECP Programme. The program that was officially launched in 2015, contributes to improve the resource efficiency and environmental performances of businesses and other organizations in Bosnia and Herzegovina. With the application of a systematic RECP approach, the project aims at providing:

- Training to national experts on UNIDO's RECP methodology
- Assessment services to companies
- Information dissemination and awareness raising

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