

RECP Experiences at Colorit 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 Colorit Ltd. Bosnia and Herzegovina show, benefits are obvious in many enterprises, regardless of their line of business, location or size.

Achievements at a Glance

Implementation of selected measures will lead to annual savings of EURO 11,650 with investment of EURO 107,100. Energy productivity will be increased by 18% and water productivity by 14%. Waste intensity will increase by 20% and carbon Intensity by 12%.



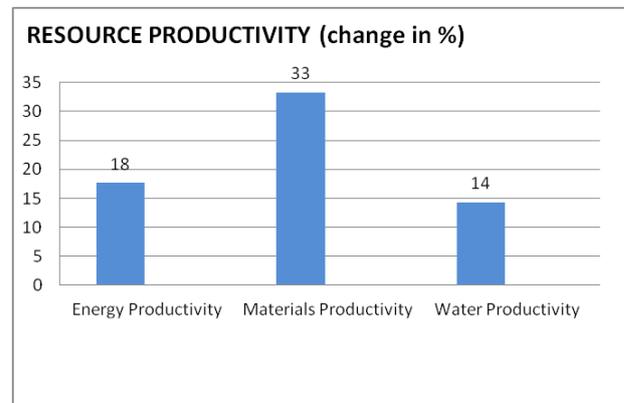
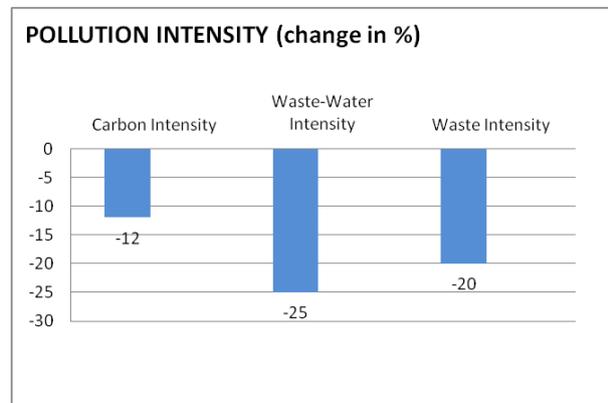
Overview

COLORIT Ltd. was established in late 1996 as a manufacturer of paints, varnishes and acrylic, silicate, silicone, mineral and mineral polymer facades for all finishing work in construction. The company's installed capacity equals 50-60 t / day. Products are placed on BiH, Albanian and Croatian market. The company has implemented and maintains an environmental management system that meets the requirements of ISO 14001: 2004. The company is also certified to ISO 9001: 2008. COLORIT has 49 employees.

Benefits

Absolute Indicator	Change (%)	Relative Indicator	Change (%)
Resource Use		Resource Productivity	
Energy Use	-15	Energy Productivity	18
Water Use	-12	Water Productivity	14
Materials Use	-25	Materials Productivity	33
Pollution generated		Pollution Intensity	
Air Emissions (global warming, CO2 eq.)	-12	Carbon Intensity	-12
Waste-Water	-25	Waste-Water Intensity	-25
Waste	-20	Waste Intensity	-20

RECP profile



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



Resource Efficient and Cleaner Production (RECP)

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)
Procurement of a smaller capacity filling machine	15,000	4,000	4 y	Water consumption 106,70 m ³ Raw material 1000 t	Waste water 51 m ³ Waste 1,1 t
Procurement of a closed line with belt conveyor	10,000	2,000	5 y	Water 161,7m ³ Raw material 382,8 t	Waste water 99 m ³ Waste 0,42 t
Construction of prefabricated warehouses and better organization	80,000	5,000	16 y	Fuel 114,200 MJ	CO ₂ reduction 204,89 t Waste 1,1 t
Supply two multi-purpose central printing devices	2,100	650	3,5y	Inkjet 0,1 t/y Paper 0,8 t/y	Waste (Inkjet and paper) 0,9 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. Due to specific market requirements, the company produces small batches of products in a particular colour. This is so called "production for known consumer". However, the frequent changes of colour result in significant waste of dye. Thus, the company decided to procure the filling machine with smaller capacity in order to avoid further losses. An analysis of the resource efficiency in the administrative building showed that each office has a printing device. In order to reduce paper and inkjet consumption they decided to procure two multi-purpose central printing devices.

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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