

## RECP Experiences at Standard

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 Standard a.d. Bosnia and Herzegovina show, benefits are obvious in many enterprises, regardless of their line of business, location or size.

### Achievements at a Glance

The Resource Efficient and Cleaner Production (RECP) project in Standard wood processing industry will achieve annual savings of 54.000 EUR, with investment of 45.000EUR and average payback time of 8 months. By application of the RECP measures, a total water consumption will be reduced by % and the total energy consumption by 6.5 %.



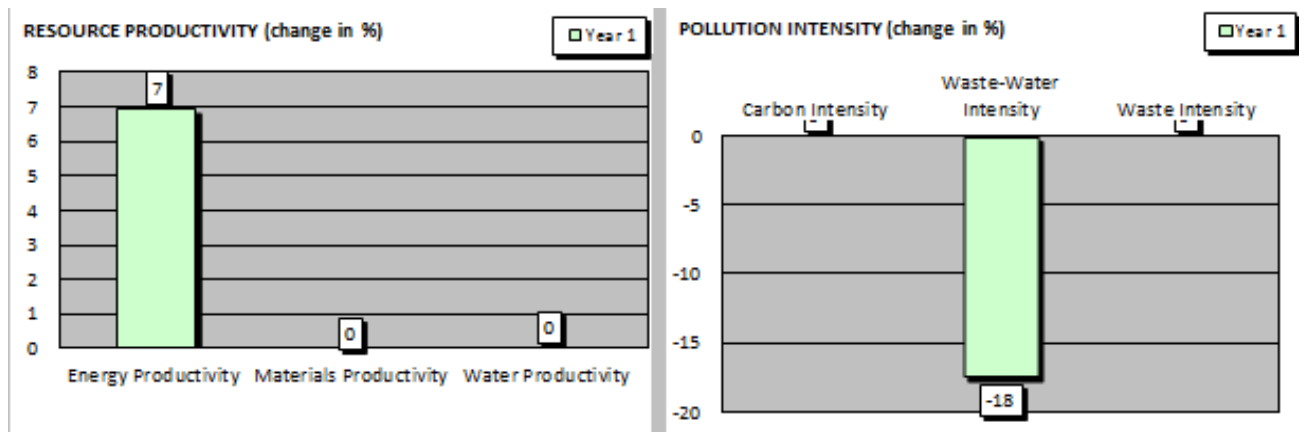
### Overview

Founded in 1943, Standard a.d. from Prnjavor is a furniture manufacturer with a long tradition. By the virtue of outstanding quality and successful design, Standard has grown in the 1980s, in a company with 300 employees which has been distributing its products in both domestic and foreign markets. Cooperation with the Swedish company IKEA began in 2000. That same year, Standard has been registered as a joint stock company, which was a precondition for starting the sale of shares. During 2004, Swiss company Dacomet AG from Zurich started privatization and currently owns 84.5% of shares.

## Benefits

| Absolute Indicator                      | Change (%) | Relative Indicator    | Change (%) |
|---|------------|-----------------------|------------|
| Resource Use                            |            | Resource Productivity |            |
| Energy Use                              | -6.5       | Energy Productivity   | 6.94       |
| Water Use                               |            | Water Productivity    |            |
| Pollution generated                     |            | Pollution Intensity   |            |
| Air Emissions (global warming, CO2 eq.) |            | Carbon Intensity      |            |
| Waste-Water                             | 17.5       | Waste-Water Intensity | 17.5       |
| Waste                                   | 0          | Waste Intensity       |            |

## 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) |
| 1. Utilization for rainwater  | 3200              | 2700                | 1 year 3 months | 5400 L   | 0  |
| 2. Installation of the water flowmeter  | -                 | -                   | -               | -  | n.d.   |
| 3. Installation of the water settling tank  | 1275              | 2002                | 6 months        | -  | 3465 L   |
| 4. Insulation of the hot water pipelines  | 5000              | 8900                | 6 months        | 951 MWh  | n.d.   |
| 5. Installation of frequent regulation and soft starters on larger electric engines | 40000             | 45000               | 11 months       | -  | -  |

n.d. – not defined



# 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. After consultation with expert teams the company management selected the RECP measures to be implemented. Management of company did not specify timeline for implementation of selected RECP options.

### 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 in terms of sensible use and management of natural resources in businesses and other organizations in Bosnia and Herzegovina. Applying 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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