



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

National Cleaner Production Programme in the Republic of Moldova (NCPP Moldova)

The NCPP Moldova aims at improving the resource productivity and environmental performance of enterprises and other organizations through the application of Resource Efficient and Cleaner Production (RECP) methods, techniques and policies.

NCPP Moldova framework

The National Cleaner Production Programme in the Republic of Moldova is implemented by the United Nations Industrial Development Organization (UNIDO) under its global joint programme with the United Nations Environment Programme (UNEP) on Resource Efficient and Cleaner Production (RECP). The NCPP is funded in its second phase by the Government of Austria, preceded by the financial support of the Czech Government in the first phase.

The NCPP is directed by a National Executive Board with membership of the Ministries of Environment and Economy, Chamber of Commerce and Industry, Academy of Sciences and civil society, being hosted by the Technical University of Moldova.



The NCPP Moldova is an observer member of the Global Network for Resource Efficient and Cleaner Production (RECPnet) and adopts the global frameworks developed under the UNIDO-UNEP RECP Programme.

Cleaner Production (CP) – historical background in the Republic of Moldova

Several donors supported over the past decade Cleaner Production (CP) and/or related industrial environmental and energy projects in the Republic of Moldova. These included support for capacity building in CP and energy conservation (2001-2008, funded by the Government of Norway); a regional CP programme for Moldova, Kazakhstan and Georgia (2004-2007, funded by the European Union); a capacity building and demonstration project for organic wine (funded by the Government of The Netherlands) and several technical and policy support studies (funded by the Government of the Czech Republic).

Jointly these projects, and possibly others, have confirmed that Cleaner Production can be meaningfully applied in Moldavian industrial sector, even though their collective impact on the uptake of CP in the sector has been relatively modest.

Professional training appears to have been most successful; also considerable efforts have been invested in information/awareness activities and industry pilot projects. While informative outputs have been produced, information on further Cleaner Production implementation is not existent. To provide a solid foundation for promoting CP in future, more attention needs to be paid to the monitoring of current implementation and benefits thereof.

About RECP Programme

The Joint UNIDO-UNEP Programme on Resource Efficient and Cleaner Production (RECP) aims at improving the resource productivity and environmental performance of businesses and other organizations in developing and transition countries.



What is RECP

Recognizing that resource efficiency (RE) requires cleaner production (CP) and vice-versa, UNIDO and UNEP have moved towards Resource Efficient and Cleaner Production (RECP). RECP, therefore, builds upon CP in accelerating the application of preventive environmental strategies to processes, products and services to increase efficiency and productive use of natural resources (water, energy, and materials), reduce waste and pollution and reduce risks to humans and the environment.

Objectives

The overall objective of the NCPP is to improve the resource productivity and environmental performance of enterprises and other organizations in the Republic of Moldova and thereby contribute to sustainable Industrial Development and Sustainable Consumption and Production.

Activities and outputs

The NCPP is structured by contributing outcome in three subsets of outputs and activities, respectively:

1. RECP Capacity: improved capacity for and wide-spread utilization of RECP services that support adaptation and adoption of RECP methods, practices and technologies. A cadre of 13 national RECP experts is created and advanced training opportunities provided. Further communication and awareness activities are foreseen, including regional workshops, national conference and web-site.

2. RECP Demonstration: increased implementation of RECP methods, practices and technologies by enterprises in the priority sectors with monitoring and verification of the environment, resource use and economic benefits achieved. Specific demonstration, replication and technology upgrading components will be provided, and aim to achieve RECP implementation in some 100 companies over the three year duration of the NCPP. The status of

implementation along with benefits would be documented for demonstration enterprises as the basis for the preparation of company level success stories and sector and/or region specific summary booklets.

3. RECP Policy and Strategy: policy framework established and/or strengthened that enables the realization of RECP methods, practices and technologies in particular in the target sectors. Upon assessment of the policy gaps, a national strategy will be developed and promoted. Support is also foreseen for development, pilot and evaluation of key policy instruments, including training and capacity building for implementation, monitoring and enforcement.

Priority sectors for the NCPP are food and beverage, construction materials and municipal services (including waste, sanitation, district heating, schools, hospitals, etc.). These sectors are generally perceived to have greatest development potential, whilst they would also contribute to improvements in living standards.

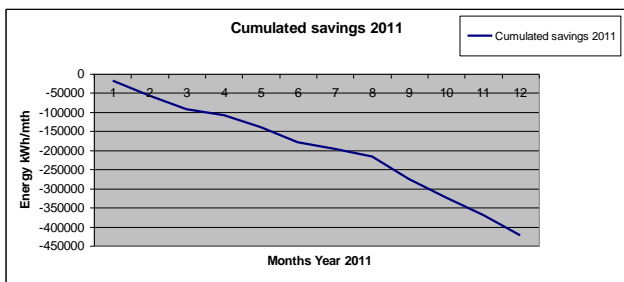
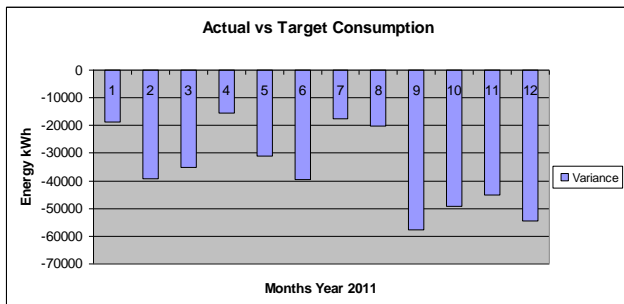




RECP Benefits in Moldova

In its incipient stage NCPP Moldova assisted companies from the target sectors and carried out RECP assessments. As a result RECP options were generated and recommended for implementation. Businesses and other organizations that implement RECP methods, practices and technologies will be able to reduce the intensity of the use of natural resources (including water, energy and materials) and of the pollution and waste generation. NCPP has closely monitored the progress of the enterprises and benefits from implementation of RECP measures.

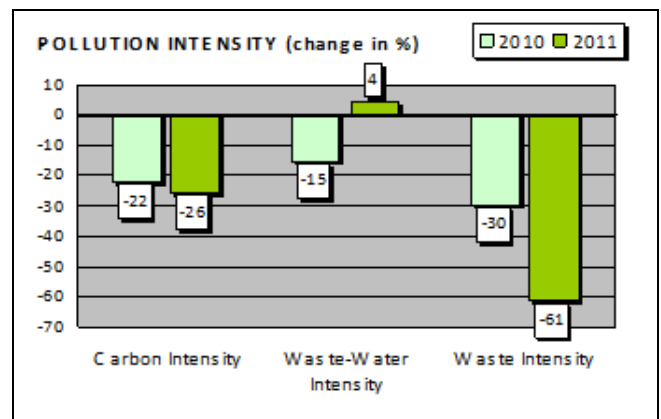
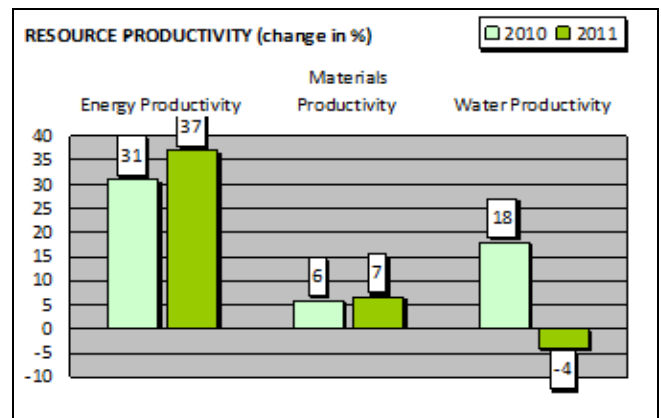
CARMEZ a meat processing company emphasizes the benefits that can be achieved through good housekeeping and optimization of production processes. Besides that, some RECP measures on improving energy efficiency have been taken. Thus the company reduced their electricity consumption by more than 400,000 kWh per year, improved materials productivity by 3% and decreased the intensity of generated wastes by 25%. In monetary terms, the savings from the implementation of RECP options account some USD 60,000 per year.



Fabrica Elementelor de Constructie a construction materials manufacturer has been, and continues to be, committed to RECP concept and very active in implementation of all identified options.

As a result of a series of implementations on energy efficiency and modernization of production line, the company managed to: improve materials productivity by 7% (materials are the most expensive input in the production process for this business); reduce their energy use by more than 200,000 kWh per year; reduce air emissions by more than 200 tons of CO₂ eq per year; and to make a reduction in waste generation by reusing and recycling some of the waste. The overall savings amounted to USD 90,000 per year.

FEC RECP Profile¹

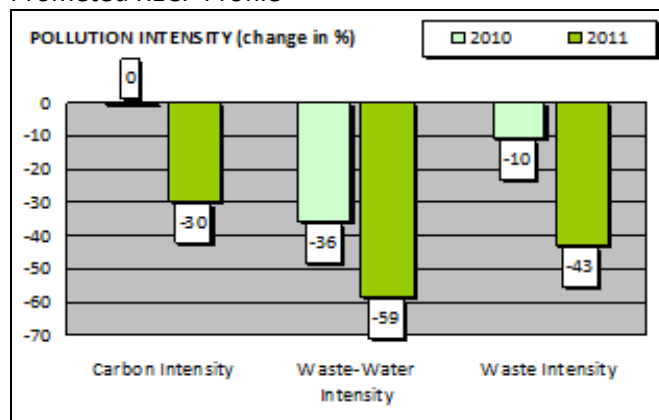


¹ Note: The RECP profile provides a visual overview of resource productivity and pollution intensity shown as change in % compared to the baseline values. Environmental performance is improved when resource productivity increases and when pollution intensity decreases.



Prometeu-T one of the leading exporters of Moldavian walnuts and walnut kernels. After identification and implementation of RECP measures and improving operational processes, including acquisition of new equipment, the company improved its environmental performance as follows: water productivity increased by 141% per year, the CO2 eq emissions reduced by 30%, and waste water intensity reduced by 59% per year. Savings from RECP measures equal to some USD 21,000 per year.

Prometeu RECP Profile



National Cleaner Production Programme in Moldova



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