



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



**FIRST REGIONAL CONFERENCE ON
SUSTAINABLE INDUSTRIAL DEVELOPMENT**
PROMOTING SUSTAINABLE ENERGY SOLUTIONS
AND CLEAN TECHNOLOGIES IN CIS COUNTRIES

National Cleaner Production Program in the Republic of Moldova

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NCPP Moldova

NCPP in the Republic of Moldova is implemented by UNIDO under the Global Program on Resources Efficiency and Cleaner Production (RECP), jointly with UNEP.

NCPP-Moldova objective is to contribute to sustainable development and generation of employment and income through the improvement of resource productivity and environmental performances of enterprises/organizations by scaling up and mainstreaming the application of RECP methods/techniques and policies.

Main areas of activities of NCPP Moldova are:

- Training of national experts and providing assistance to implementation of RECP;
- Assistance to businesses and others organizations on identifying and implementing RECP options through detailed evaluations and support for self-assessments;
- Promoting the implementation of RECP policies at government level.

Priorities sectors for NCPP Moldova are: food industry, construction materials, municipal services (schools, hospitals, etc.)



RECP policy background in Moldova

RECP concept was included in the Environmental Strategy of the Republic of Moldova for 2014-2023

RECP has been incorporated into the draft of Road map on Green Economy (under consultation with the public and institutions and to be approved by the Government by the end of 2017)

Implement the concept of RECP is one of the voluntary commitments of Ministry of Environment under the Batumi Initiative on Green Economy (BIG-E) , signed in Georgia, 2016

RECP action plan and roadmap have been developed to streamline RECP policy, institutionalise RECP service provision and create national ownership of RECP. Was approved by the Government of the Republic of Moldova in 2016 and the implementation stage is to follow according to the prioritised activities.



NCPP Moldova

Starting with 2001, in the Republic of Moldova Cleaner Production activities and industrial project on environment and energy efficiency have been supported by several donors:

- Support for capacity building for Cleaner Production and Energy (2001-2008, financed by the Government of Norway),
- Regional program for cleaner production for Moldova, Kazakhstan and Georgia (2004-2007, financed by European Commission),
- A demonstration project to create capacity on organic wine production (funded by the Government of the Netherlands),
- A number of technical studies and policy advice (financed by Czech Government).

All these projects had a relatively modest impact on the industrial sector in Moldova, but, jointly, these projects confirmed that there is a significant potential for Cleaner Production in Moldavian industry.



NCPP Moldova

During the 2011-2015 implementation of the NCPP in Moldova has been supported by the ***Austrian Development Agency***.

At the initial stage, NCPP Moldova assisted the companies from the priority sectors and carried out assessments of RECP. It was found that businesses and organizations which applies RECP methods, practices and technologies reduce the consumption of natural resources (water, energy and materials), pollution and waste generation is decreasing.

Example:

During 2012-2014 period, 56 companies and organizations from the Republic of Moldova have benefited from the assistance provided by the NCPP. By using a standard set of RECP indicators the benefits of these companies were monitored. Cumulative savings were 1,1 million USD. Total cumulative conservation of resources was about 9043 MWh of energy, 444000 m³ of water, 123000 m³ waste water and 7500 tons of materials.



NCPP Moldova - Example

Causeni branch of S.A. "ORHEI-VIT"

Activity: processes fruit and vegetables

As a result, the company managed to reduce cumulatively:

- electricity consumption with 502,000 kWh,
- natural gas with 177,000 m³
- water consumption with 78,000 m³
- wastewater decreased with 48,000 m³
- air emissions by 828 tons CO₂equivalent
- 23 tons of solid waste were recycled.

The implementation of RECP's options total savings of the enterprise for the period 2012-2014 is about US \$ 300,000



NCPP Moldova – RECP Clubs

With the support of Municipalities/Mayors in Balti, Orhei, Ungheni, Chisinau, Causeni were created RECP Clubs.

Aim of the clubs is to replicate RECP on small enterprises using the training programs, exchanging experience between RECP clubs, establishing links between enterprises from the same sectors, dissemination of materials for establishing RECP clubs, practical support for RECP enterprise level implementation, practical support for annual monitoring of RECP indicators, continuous communication and guidance on RECP concept adoption.

During 2011-2015 71 RECP clubs were created



NCPP Moldova under the EaP Green project RECP Demonstration Component (2014-2017 period)

Capacity building:

48 national experts have been identified, trained and coached in basic and advanced RECP methods and application during 6 RECP trainings (2015-2016)

RECP assessments:

84 enterprises and organisations have been assisted with RECP application, including through technology/advanced assessments (3), RECP assessments (17); RECP Club members (64).

Detailed RECP assessments have been completed for 17 enterprises of chemicals, agri-food and construction materials production sectors. The total of 118 RECP measures have been identified and evaluated by RECP experts for these 17 companies.



NCPP Moldova under the EaP Green project RECP Demonstration Component (2014-2017 period)

Some of the annual resource savings for these 17 companies include:

- Energy savings - **5,022 MWh**
- Water saving - **303,697 m³**
- Material savings - **7,065 tonne**
- Emission reduction - **1,914 tonne of CO_{2eq}**
- Waste reduction - **7,020 tonne**
- Waste water reduction - **303,457 m³**

The very initial financial benefit in result of RECP options implementation at these 17 companies amounts to **8,186,666 MDL/year (380,775 EUR / year)**.





NCPP Moldova under the EaP Green project RECP Demonstration Component (2014-2017 period)

Under the RECP clubs 64 companies received RECP guidance and coaching, 48 workshops have been delivered by RECP club facilitators. 332 RECP options have been identified and evaluated by RECP facilitators in collaboration with companies.

The companies have implemented the very first sets of RECP options to reduce energy / water / materials inputs and have realised the very first financial benefits of **31,920,742 MDL/ year** or **EUR 1,484,686/ year**



NCPP Moldova under the EaP Green project RECP Demonstration Component (2014-2017 period)

To promote RECP activities were elaborated:

Guidelines for the RECP club facilitator

Guidelines on organising the RECP clubs activities

Guidelines for entrepreneurs and their employees on
applying RECP concept

The industry pocket guide for dairy sector

The industry pocket guide for construction material sector



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