



BETTER ENTERPRISES – CLEANER ENVIRONMENT - GREEN ECONOMY

ROLLING OUT RECP CLUBS IN THE REPUBLIC OF MOLDOVA

The RECP Clubs are for the first time set up in the Republic of Moldova in the framework of the National Cleaner Production Programme (NCPP-Moldova), in cooperation with Mayors Offices of Orhei, Balti, Causeni, Ungheni and Chisinau regions as a replication/scaling up initiative to achieve more impact of RECP options implementation at 135 enterprises called RECP Club members.

RECP Clubs offer self-help RECP evaluations with less expert input, and are a SMEs greening policy tool. The enterprises' representatives are coached and provided with guidance on how to improve resource productivity per unit of product output by identification and implementation of RECP options by topic/issue of interest, i.e. water, energy, materials, waste/pollution reduction.

The most active supporters and promoters of RECP Clubs in the Republic of Moldova have a word to say:



„We have to take out our sunglasses to see with naked eye our routine of losses. I do explain to the enterprises that RECP Club is something to learn fishing instead of getting it cooked on the table. I was sceptical when I first heard about RECP, but now I would like to stay with NCPP team and continue RECP journey together, even if they don't want me.”

Valentin UNCU, RECP Club coordinator of Causeni region, and CEO of RECP flagship company.



„Sometimes it is difficult to convince enterprises to try RECP. Therefore the approach is similar to teaching a bear to bike: afterwards the bear enjoys it, and wants to continue.

The same happens with the enterprises that have tasted the flavour of RECP, are happy to continue, and also to testify to others.”

Alexandru MALER, regional RECP Club coordinator, and Ungheni Municipality Counsellor.




Snapshots of RECP Clubs activities




Use of solar panels to pre-heat water

- 60% of electricity for water heating saved
- ↓
- 20366 kWh/year of electricity saved
- ↓
- Financial benefit = 35 000 lei/year




Use of advanced rinse nozzles to reduce water flow in washing unit



- Saving of water: 792 m³/year (34%)
- Savings of natural gas: 4949 m³/year
- Total financial benefit: = 49000 lei/year

Temperature control in cooling chamber




- Use of sensors on doors to switch off ventilators when the doors are open
- Raise of temperature in the refrigerating chamber
- Savings of electricity: 5940 kWh/year
- Financial saving: = 10 000 lei/year

Reorganise the washing process by using cream colour from light to dark

- Making light creams followed by darker colour
- Savings of water for washing circa 5%, or 140 m³/year
- Financial saving: 3500 lei/year



Recovery of heat from flue gases of the hearth stove to heat the fermentation room




- Heat released with flue gases: 613 200 kWh/an
- Heat used for heating the fermentation room: 36 500 kWh/an
- Use of heat from flue gases to heat the fermentation room saves electricity 36 500 kWh/year
- Financial benefit: 68 620 lei/year

Reuse of rinse water to pre-wash

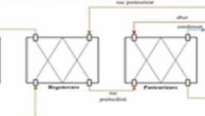


- Washing of trash bins:
- Investment into a washing stand with water collector: = 3000 lei
- Savings of water: 444 m³/year (35 %)
- Financial benefit: 10194 lei/year
- Payback period: 0.3 year


Installation of regenerative heat exchanger



- Investment: proper forces and available materials
- Savings of natural gas: 34 000 m³/season
- Financial benefit: 198 890 lei/season




A maintenance programme for compressor



Benefits:

- 10% of electricity saved
- 25% reduction of operating time
- Savings of electricity: 473 kWh/year
- Financial benefit: 889 lei/year

Cooking in pans with closed lids



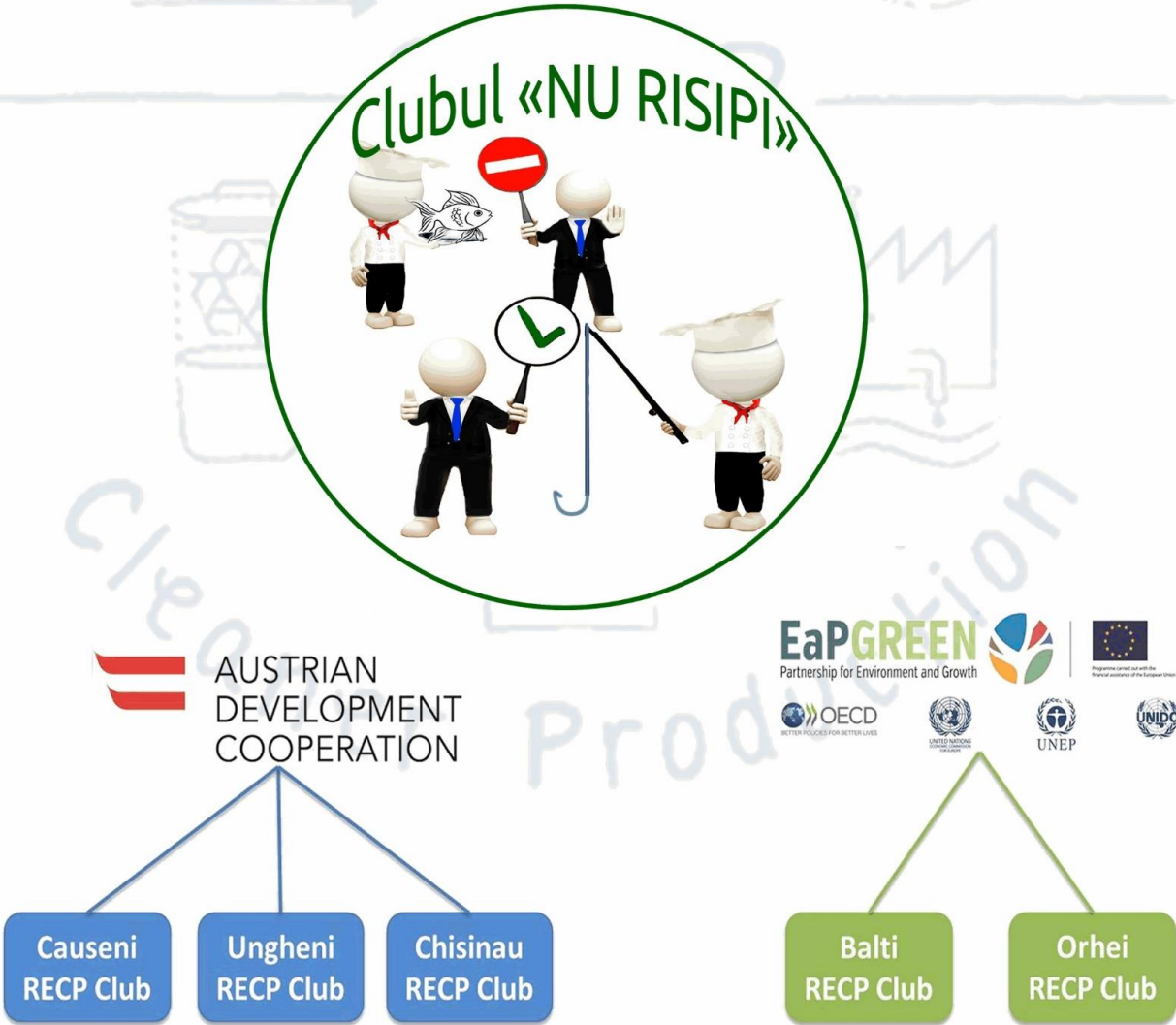
- Reduced cooking time
- Reduced use of electricity by 720 kWh/year
- Financial benefit of 1137 lei/year



Benefits of RECP Clubs refer to improved resource efficiency and productivity and declining pollution intensity, reduced costs of raw materials/energy/water, minimised use of hazardous materials and chemicals by regional enterprises and organisations. Additionally, RECP Clubs strengthen regional cooperation; build relationships of trust and contribute to sustainable development of communities and decoupling of economic growth from resource consumption and environmental damage.

The first cycles of RECP Clubs in Causeni, Ungheni, and Chisinau with support of the Austrian Government; Balti and Orhei with support of the European Commission, resulted in the uptake of RECP in 135 companies, and identification of the very first potential cumulative resource savings of: 20,530 MWh of energy, 891,447 m3 of water, 622 tonnes of materials.

Regional RECP Clubs – 135 enterprises





About NCPP-Moldova

NCPP-Moldova aims to improve resource productivity and environmental performance of enterprises and organisations from Moldova by implementation of Resource Efficient and Cleaner Production (RECP).

NCPP-Moldova works in particular to:

- Build human and institutional capacity for RECP service provision;
- Assist enterprises and organisations with identification, evaluation, and implementation of RECP options, through expert assessment, and support for self-help assessment;
- Domesticating and customize RECP approaches by proposing nationally appropriate rationales for uncovering business interest and desire to act on RECP through RECP Clubs and RECP Forums.

About EaP GREEN

Under EaP GREEN, UNIDO is supporting the implementation of Resource Efficient and Cleaner Production (RECP) demonstration projects in the food, chemicals and construction materials sectors in the Republic of Moldova through the National Cleaner Production Programme establishing RECP Clubs to assist regional enterprises on reduction the water/materials/energy consumption per unit of Production (<http://www.unido.org/eapgreen.html>). EaP GREEN is carried out with financial assistance of the European Union, with co-financing from the Government of Slovenia, the Development Bank of Austria and the implementing Organizations: the Organisation for Economic Co-operation and Development (OECD), the United Nations Economic Commission for Europe (UNECE), the United Nations Environment Programme (UNEP), and the United Nations Industrial Development Organization (UNIDO).

Contacts:

Programme Director:
Lucia SOP
(+373) 068 656167
soplucia@yahoo.com

RECP Club regional coordinator Ungheni:
Alexandru MALER
(+373) 79061218
unghenialex@gmail.com

Project Manager, UNIDO:
Carolina GONZALEZ
c.gonzalez-mueller@unido.org

RECP Club regional coordinator Causeni:
Valentin UNCU
(+373) 69112246
uncu.v@orhei-vit.com

Junior RECP Club Facilitator:
Ala ABRAMOVA
(+373) 79690695
ll_abramova@yahoo.com

RECP Club Facilitator:
Ion NIȚĂ
(+373) 69063016
ion_nitza@yahoo.com

National Cleaner Production Programme
8, Maria Cebotari Street, office 7
Chisinau, Republic of Moldova, MD-2004,
Tel: (+373)68656167, E-mail: soplucia@yahoo.com

www.ncpp.md