



The KEMSO project



October
2021



Title

1. Author Contact Information

Name Emilio Murtič

Email emilio.murtic@komunala-nm.si

Telephone +386 7 3932 526

2. Organization Information

Country Slovenia

Region Southeast Slovenia, Dolenjska region

City Novo mesto

Organisation Name Komunala Novo mesto (Novo mesto Utility Company)

3. Organisation in charge of the good practice

Is your organisation the main institution in charge of this good practice? No

If no, please tell us who is the main institution in charge

Name Organisation

Country

Region

City

4. General Information

Practice Image



Title of the practice	The KEMSO project
Geographical scope of the good practice*	regional

5. Good Practice Detailed Information

Short summary of the practice	The main object was to establish a circle where packaging would be collected and used as a raw material for production of hygiene paper.
Detailed information on the practice	<p>The main object of the project was to establish a circle where cardboard packaging of milk, juices and the rest of beverage would be collected and further transferred to a plant where it would be used as a raw material for production of hygiene paper (toilet paper, tissues etc..). Afterward the hygiene paper would be used in public institutions (schools, kindergartens, health institutions, cultural institutions etc...) on local basis where the raw material was collected.</p> <p>KEMSO: K (kartonska – cardboard), E (embalaža – packaging), M (mleka – of milk), S (sokov – of juices), O (ostalega – rest of). KEMSO is made of 75 % cardboard (paper), 20 % polyethylene and 5 % aluminium. The key ingredient is cellulose which is primarily obtained by cutting down trees and wood processing.</p> <p>All of the primary schools in the area of 8 municipalities in the Dolenjska region of Slovenia were invited in this project as collection points. Before the start of the collection all schools were visited by employees of the Novo mesto Utility Company who introduced basic objectives of the project and the ground rules for collection. 4 collection days were set as the days when pupils would bring the packaging from their households to school. Even after those collection days the schools continued collecting KEMSO material to this day.</p> <p>Municipality of Novo mesto and 7 other municipalities of the Dolenjska region were the pioneers in this project in Slovenia. Soon other municipalities followed, including Ljubljana, the capital city of Slovenia.</p>

Resources needed	The project was carried out by the employees of the Novo mesto Utility Company and 8 primary schools. The beverage cartons were collected by pupils and their families and the whole project was supported by teachers and other school staff. No special financial resources were needed.
Timescale (start/end date)	October – December 2015 (4 collection days) / ongoing
Evidence of success (results achieved)	134 tons of the KEMSO material have been collected since 2015. 1750 trees have been saved from cutting down and used as a raw material which equals to 7000 square meters of forest. CO ₂ emissions have been reduced by 110 tons.
Challenges encountered (optional)	[300 characters] Please specify any difficulties encountered/lessons learned during the implementation of the practice.
Potential for learning or transfer	It is a simple but at the same time a very effective practice that can be used without much cost in any environment with a functioning utility company. The main challenge is to find a suitable company/plant where the cardboard beverage packaging would be used as a raw material for production of hygiene paper. Schools function as a perfect collection point with many participants (pupils and their families), with a suitable infrastructure and a great support in terms of human resources (teachers and other staff), while the whole project also serves as an excellent form of education on waste management. At the same time schools serve also as the final consumers of hygiene paper.
Further information	»KEMSO« - KROŽNO GOSPODARSTVO (komunala-nm.si)
Keywords related to your practice	Circular flow of material, cardboard packaging of beverage, raw material, production of hygiene paper