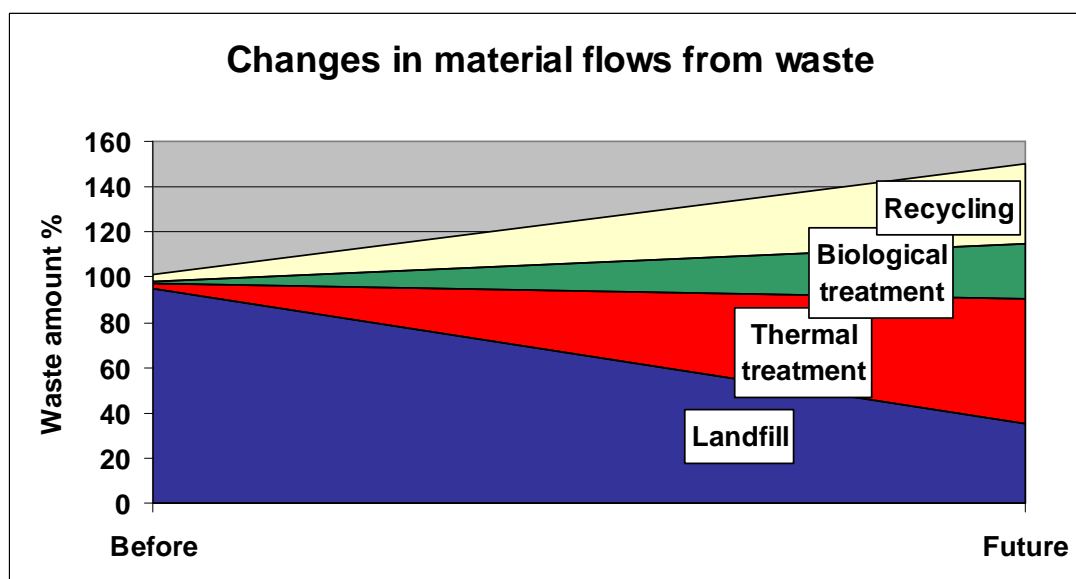


Source segregation and recycling of materials



A growing market!

In a strategy for sustainable development waste represent a valuable raw material for new industrial production.

The process involves in every household and company where waste is generated. Good practical solutions for source segregation together with information and public education are crucial. Cities have especial challenges to make esthetical accepted solutions.

An integrated waste logistics is necessary to collect different categories in an efficiency way to different kinds of industry production.

There is a growing market for recycling materials where prices and quality specifications fluctuates. Market knowledge is important to design the solution with central sorting and bailing. There will always be a balance between effort in source segregation and central sorting.

In European countries the system with producer responsible on packaging, WEEE and ELV play an important role in the recycling market.

Mepex share knowledge

Mepex can offer all kind of services related to analysing, developing plans and implementing systems for waste sorting:

- Source segregation for different kinds of organic waste
- Source segregation system for packaging materials and paper
- Recycling centres, under-ground solutions, equipment
- Information and public education
- Central sorting plants for mixed waste, mixed paper and plastic
- Recycling solutions for different materials.
- Producer responsible systems for packaging, WEEE and ELV/ELB.

Mepex has long experience with projects regarding planning and practical implementation of integrated system for source segregation, collection and recycling. Selected references are shown on next page.

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Selected reference projects

Source segregation

Client	Project name and short description
9 municipalities in region of Drammen	Implementation and operation of a new integrated source segregation system. Project coordinator for strategy, concept recycling point, plan for implementation, information, contracts and execution, start up.
Asker and Bærum municipalities	Plan to improve source segregation and implement new total system including organic waste. Waste analysis,
Svenske Renhallsverks forening (RVF)	Project in research programme BUS about organic waste. Solutions for food waste from blocks and multi-family houses
Norwegian Department for Environment and Waste Norway	Project in research programme ORIO about organic waste. Future solution for collection and treatment of food waste from commercial. Hygienic conditions for food waste systems.
Elkjøp Nordic AS	Source segregation system for packaging waste and WEEE from 240 warehouses in Nordic countries.

Sorting plants for recycling

Veolia Environment, Region South Norway	Project execution for sorting line for mixed paper quality. Including optical sorting. Feasibility study of sorting plant for mixed waste including air, water and optical sorting for recycling.
Veolia Environment, Region East Norway	Project planning and execution of relocation of paper sorting plant (100.000 tons/y) and sorting plant for mixed waste (100.000 ton/year)
BIR AS, Bergen	Project planning and execution of sorting line for mixed paper fractions. Including optical sorting.
Retura TRV, Trondheim	Project planning and execution of sorting line for mixed paper fractions. Including optical sorting.
Oslo Community	Project leader for development of optical sorting plant for household waste, including organic waste and plastic packaging. Pre-design and contract engineering.

National recycling schemes

Plastretur and Green dot Norway	National system for plastic packaging. Main advisor for over 10 years with central role in development of models, strategies, contracts. Material flow analysis and statistics.
Returbil/ Veolia Environment	National system for End of Life Vehicle. New concept for re-distribution, de-pollution and dismantling before shredding.
Renas AS	National model for collection, treatment and recycling of WEEE from commercials in Norway. Development of models and strategies, tender specification and contracts for treatment and agreements for collectors.
El-retur AS	Models for reuse of WEEE from households. Analysis of how reuse can be implemented in existing return schemes for WEEE in Norway.
Norwegian Pollution control Agency	Survey and plan to introduce return schemes for End of Life Boats in Norway with necessary incentives.
Hold Norge Rent/ Keep Norway Clean!	National campaign to reduce littering. Project leader