

SuperDrecksKëscht® - A circular economy brand in Luxembourg

Our views on plastics



**Luxembourg EcoInnovation and Materials &
Manufacturing Clusters
Workshop 04.12.2018**



Who we are

- The resource efficiency brand **SuperDrecksKëscht®** is under the responsibility of:



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère du Développement durable
et des Infrastructures

Administration de l'environnement

legal basis

- law of 25th march 2005 concerning the financing and functioning of SDK
- law of 21st march 2012 about waste management

Partners on a
conventional basis:



CHAMBRE
DES METIERS
Luxembourg



SDK RESSOURCEN
INNOVATION
NOHALTEGKEET
CIRCULAR ECONOMY
SuperDrecksKëscht®



Who we are

Activities under the motto ,Resources – Innovations – Sustainability – Circular economy‘

➤ Partner in sustainable waste management

- Ministry for sustainable development and infrastructures
- municipalities
- Chamber of crafts
- Chamber of commerce

➤ Strategy based on the EU-waste hierarchy:

- role model for the ecological restructuring of society
- resource efficiency – circular economy
- protection of the environment
- climate protection



awarded with the label
,best practice‘ by the
European Commission



Because of there practicability the activities are recognized by the EU Commission through the award of the label ,best practice‘.



Our actions on plastics

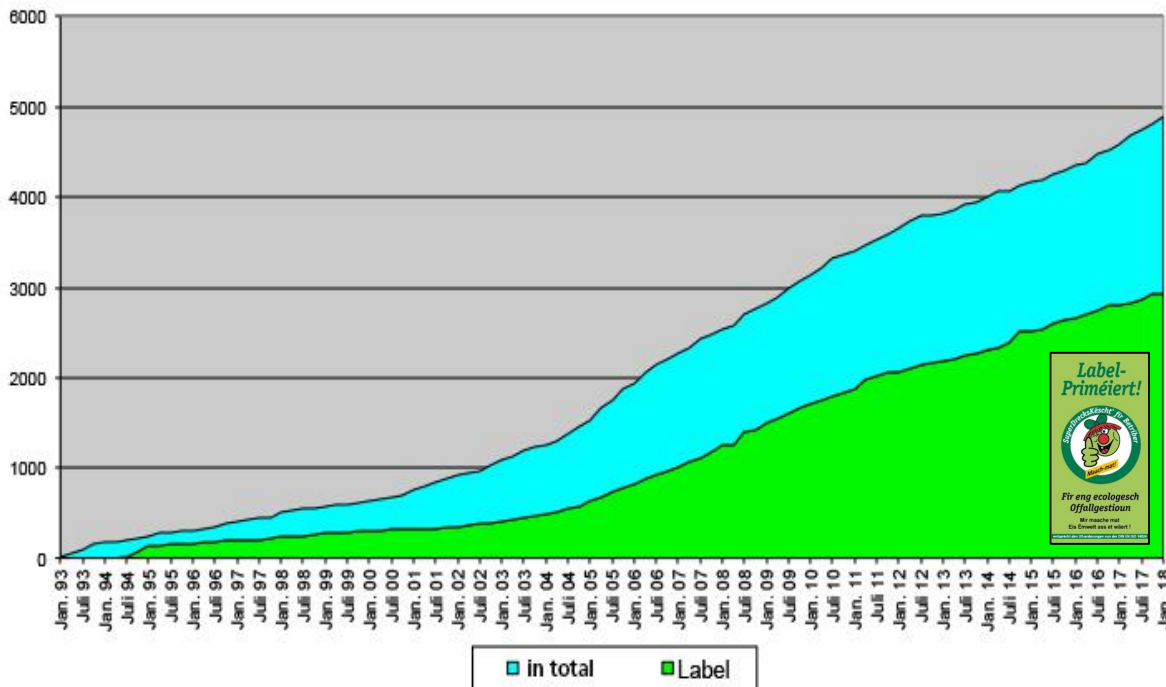
Ecological waste management in companies - with DIN EN ISO 14024 certification

- SuperDrecksKëscht® fir Betriber:
 - practical advice and waste management concepts
 - training on waste prevention and separation for staff
 - ecological and economic advantages through intelligent waste management, with emphasis on environment, quality and safety
 - Label certification: quality label for companies certified according to DIN EN ISO 14024



Our actions on plastics

Ecological waste management in companies - with DIN EN ISO 14024 certification



The around 5000 participating companies/institutions represent 250.000 employees, which constitutes 60 % of all employees working in Luxembourg (375.000; status Jan. 2018).

The label SuperDrecksKëscht® - well-known consumer brand and instrument to promote the (circular) economy.

Our actions on plastics

Ecological waste management in companies - with DIN EN ISO 14024 certification

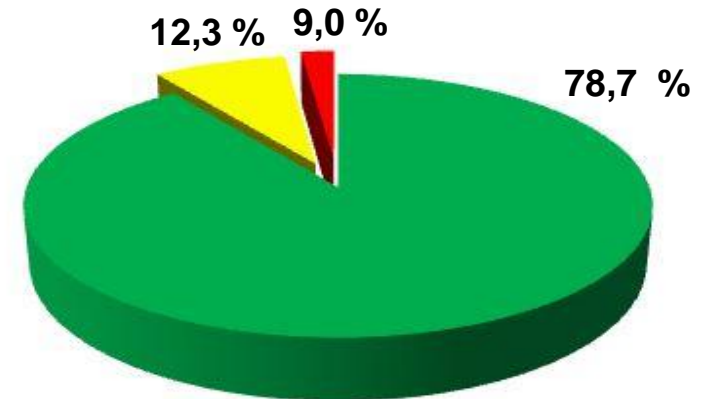
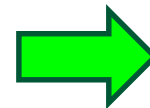
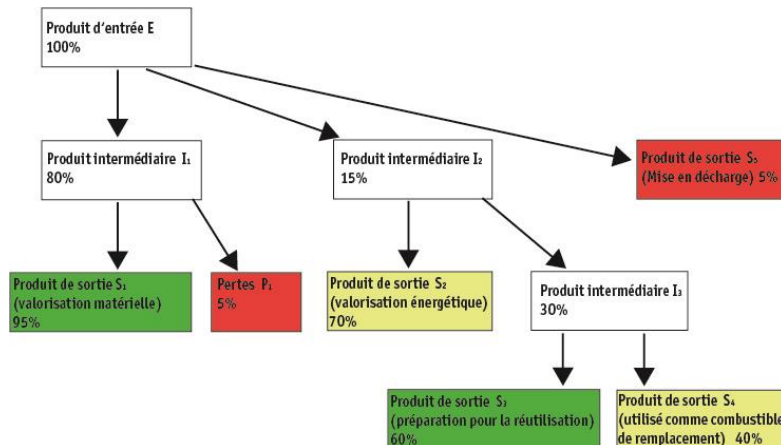
- Important criteria = separate collection of all old products (waste)
- As well all different plastics – e.g. plastic films, Styropor, hard plastics, plastic bottles (Valorlux),...



Our actions on plastics

Resources potential certification (DIN EN ISO 14024 certification)

- Evaluation method determining the quality of a demanufacturing (recycling) process
- Using a color code



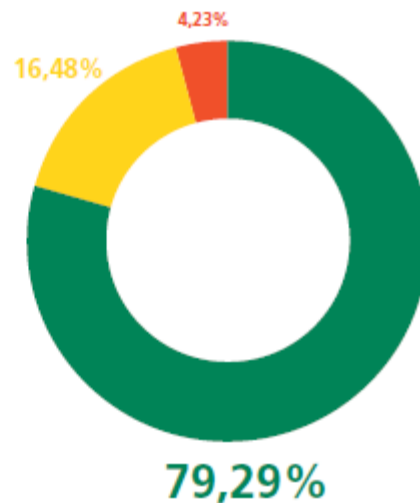
GREEN	Raw material potential: preparation for re-use / materials recycling
YELLOW	Energy potential: manufacture of a substitute fuel /energy recycling
RED	Disposal / combustion / losses

Our actions on plastics

Resources potential certification (DIN EN ISO 14024 certification)

Agricultural films (silo, stretch) Resources potential

Product receivers:
Hein Déchets, L-5405 Bech-Kleinmacher / AFA Nord, D-24594 Hohenwestedt
www.heingroup.lu / www.afa-nord.de



● Raw material potential:
- material recycling
- preparation for reutilization

● Energetic potential:
- production of a substitute
combustable
- energetic recovery

● Disposal:
- landfill
- incineration
- losts

Most important output streams

Raw material potential:



Plastic (PE regrown)



Sand



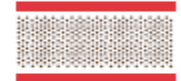
Metals

Energetic potential:



Plastics

Disposal:



Muds

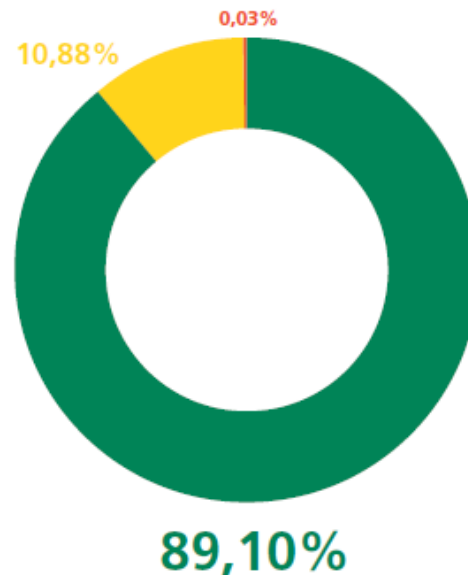


Our actions on plastics

Resources potential certification (DIN EN ISO 14024 certification)

Bumpers PP - Resources potential

Product receiver:
Grannex Recycling-Technik GmbH & Co. KG
www.grannex.de



● Raw material potential:
- material recycling
- preparation for reutilization

● Energetic potential:
- production of a substitute
combustable
- energetic recovery

● Disposal:
- landfill
- incineration
- losts

Most important output streams

Raw material potential:



Regranulate PP

Energetic potential:



Dust losses

Disposal:



Losses

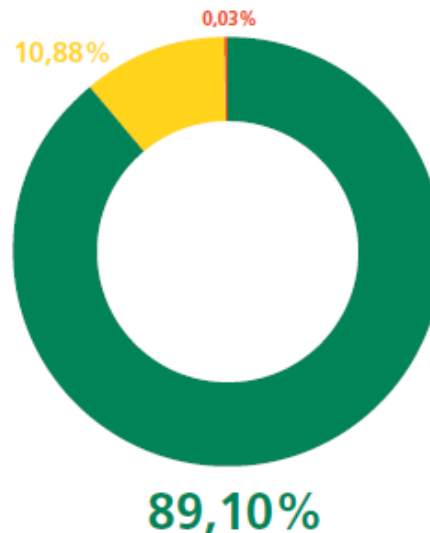


Our actions on plastics

Resources potential certification (DIN EN ISO 14024 certification)

Kitchen oil bucket PP 30 l incl. lid PP Resources potential

Product receiver:
Grannex Recycling-Technik GmbH & Co. KG
www.grannex.de



● Raw material potential:
- material recycling
- preparation for reutilization

● Energetic potential:
- production of a substitute
combustable
- energetic recovery

● Disposal:
- landfill
- incineration
- losts

Most important output streams

Raw material potential:



Energetic potential:



Disposal:



Multiple use bucket (professional washing at logistik center SuperDrecksKëscht® → reuse)



Our actions on plastics

Resources potential certification (DIN EN ISO 14024 certification)

Plastic barrels, IBC (hazardous substance packaging) - Resources potential

Product receiver :
EarthMinded France S.A.S. , F-Haisnes Cedex
www.earthminded.com

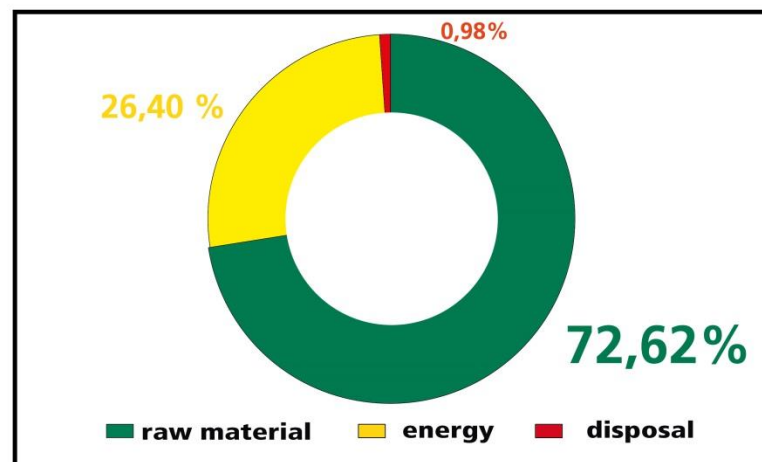
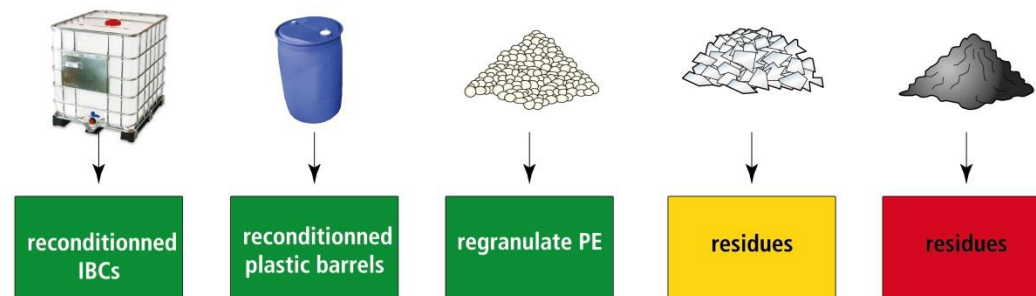


Diagram of
most impor-
tant flows



Raw material potential:
- material recycling
- preparation for
reutilization



Energetic potential:
- production of a substitute
combustable
- energetic recovery



Disposal
- landfill
- incineration
- losses



Our actions on plastics

Prevention of single used (plastic) packagings – ECOBOX

Prevention of food waste



1000 ml

500 ml



LE GOUVERNEMENT
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Ministère du Développement durable
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Département de l'environnement



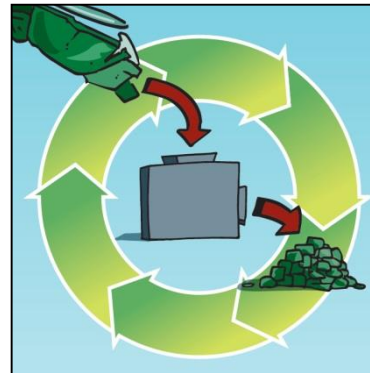
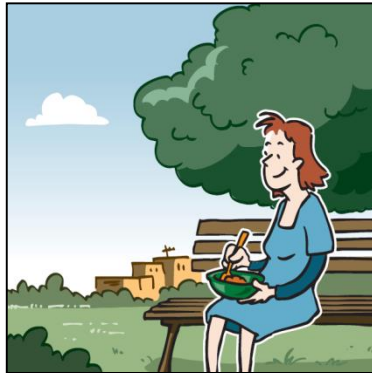
SDK RESSOURCEN
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Our actions on plastics

Prevention of single used plastic packagings – ECOBOX

Prevention of food waste



Our actions on plastics

Prevention of single used plastic packagings – ECOBOX

Prevention of food waste

- Deposit system (5 €) – no costs for guests and restaurants
- More than 8.000 Ecoboxes in circulation
- 69 participating companies
 - 55 restaurants
 - 4 others (canteens)
- If the Ecobox can no longer be used (e.g. broken), a take-back system has been installed by SuperDrecksKëscht®
(→ return to manufacturer → crushing → reuse for new products)



Our actions on plastics

Prevention of single used plastic packagings – ECOBOX

Prevention of food waste

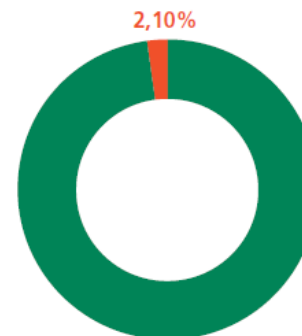
Return of the product ECOBOX with subsequent reuse in new products



Resources potential:
Return of the products and reuse in the new production process



Producteur :
Ornamin-Kunststoffwerke
GmbH & Co. KG
www.ornamin.com



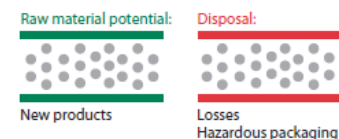
97,90%

Withdrawal of the ECOBOX
and re-use in products



Saving resources.
High resource reuse.
Influence of ecodesign and design
of products.

- Raw material potential:
prepared for reuse / recycling
- Energy potential:
Production of a substitute fuel /
oil recovery
- Landfilling / burning / losses



SuperDrecksKëscht® - Contact



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