Aktioune vum Ministère fir Ëmwelt, Klima a Biodiversitéit mat de Gemengen, der Chambre des Métiers an der Chambre de Commerce





1:	THE SUPERDRECKSKËSCHT® – CLIMATE PROTECTION IN PRACTICE	
A.	Introducing the SuperDrecksKëscht® 1. About us 2. Where is the SuperDrecksKëscht® at ? 3. A brief historical overview 4. Environment Policy – environmental and quality management 5. Focal points	5 5 7
2:	THE SUPERDRECKSKËSCHT® – SUSTAINABLY ON THE MOVE	
	1. Circular economy and resource efficiency 2. Product flow management and resources potential. 3. Product receiver policy	11 13 14 15 18 19 20 21 22 22
D.	SDK - climate protection : climate balance according to GHG protocol Sustainability factor: social aspects - the SuperDrecksKëscht® team Employees Guidelines Safety at work Training and communication Work-Life-Balance Diversity and equal opportunities Prospects Sustainability factor: social aspects - social committment Stakeholders Cooperations Data security Information, training and other awareness-raising activities	24 26 27 28 29 30 31 31
	6. The SDK Akademie	
	A. C. C.	2. Where is the SuperDrecksKëscht® at ? 3. A brief historical overview. 4. Environment Policy – environmental and quality management 5. Focal points. 2: THE SUPERDRECKSKËSCHT® – SUSTAINABLY ON THE MOVE B. Sustainability factor: economy – actively promoting the economy 1. Circular economy and resource efficiency 2. Product flow management and resources potential 3. Product receiver policy 4. Innovations in logistics and technology. 5. The well-known SuperDrecksKëscht® label 6. Supplier policy and purchasing guidelines 7. Cooperations and joint projects 8. Prospects C. Sustainability factor: ecology – actively promoting an ecological society 1. Products 2. Energy 3. Water 21 4. Biodiversity 5. Emissions, waste water and waste 6. Mobility 7. Use of space 8. Prospects SDK - climate protection: climate balance according to GHG protocol D. Sustainability factor: social aspects – the SuperDrecksKëscht® team 1. Employees 2. Guidelines 3. Safety at work 4. Training and communication 5. Work-Life-Balance 6. Diversity and equal opportunities 7. Prospects E. Sustainability factor: social aspects – social committment 1. Stakeholders 2. Cooperations 3. Data security 4. Information, training and other awareness-raising activities 5. Media

PART 3: THE SUPERDRECKSKËSCHT® – CAMPAIGNS AND PROJECTS

F.	The activities			
	1.	The SDK fir Bierger (for citizens)	37	
	2.	Other activities of the SDK fir Bierger	45	
		Shop Green		
		Resources potential	46	
		Ecological waste management in residential buildings	49	
	3.	The SDK fir Betriber (for businesses)		
	4.	Other activities of the SDK fir Betriber	45	
		Construction sector	51	
		Agriculture		
G.	Ex	rtra activities		
	1.	Circular Economy	53	
		Clever lessen		
		Refugee accommodation		
	4.	Sustainable events - Green Events	54	
	5.	Repair & Share	55	
	6.	Re-Use		
PΔRT 4.	Tŀ	HE SUPERDRECKSKËSCHT® INTERNATIONAL		
/XIXI - 4.		TE SOT ERBRESKESSKIT INTERNATIONAL		
H.	In	ternational presence and circular economy		
	1.	International presence	57	
		The vision of circular economy		
	DV	ADDDEVIATIONS		

GLOSSARY - ABBREVIATIONS

1.	Associations / federations / institutions	59
2	General abbreviations	50

Preliminary remark about the terminology used

Society does not consume waste, it consumes products. Therefore, the **SuperDrecksKëscht®** (the abbreviation "**SDK**" is used hereinafter), regardless of the legal terminology, does not use the term "waste", but instead distinguishes between products, end-of-life products or waste products, valuable and problematic products.

In this sense, recycling companies and waste receivers are referred to as reverse producers and product receivers, which treat the products delivered by the **SDK** using reverse production processes. Because the management of end-of-life products is a reflection on the consumer society, the **SDK** does not talk about waste management but about the reverse consumption economy and resource management as part of the circular economy.

We are convinced that the terminology we use promotes and further develops the appreciation of a sustainable circular economy and the social awareness to participate in it.

Gender and diversity statement

For ease of reading, this report generally uses the standard masculine form for personal nouns and pronouns. When personal terms are used in the masculine form only, they refer to men, women, and others equally.







1. About us

The **SuperDrecksKëscht®** in Luxembourg are initiatives of the Ministry of the Environment, Climate and Biodiversity with the municipalities, the Chamber of Skilled Trades and Crafts and the Chamber of Commerce in the national waste management.

Resources - Innovation - Sustainability - Circular Economy: these 4 values determine the activities of the **SuperDrecksKëscht**®.

The **SuperDrecksKëscht®** is a brand which was developed in the context of the sustainability of the waste management tasks of the state of Luxembourg. Its orientation is based on the EU waste hierarchy and on the 2012 national legislation: prevention of waste before treatment for reuse, before recycling, before other recovery (i.e. energy recovery) and before disposal. Accordingly, the focus is on prevention and therefore on resource management - entirely in the spirit of a modern circular economy).

The task of the **SuperDrecksKëscht®** is to use and implement the latest information to bring about sustainable material management in an ecological and economic sense combined with high quality. The perception of this task then permits the brand to act as a role model in the ecological restructuring of our society. Its role is to provide impetus for all those involved in the national economy with the aim of reducing the impact on the environment and improving resource efficiency.

The activities of the **SDK** are also acknowledged by the EU Commission, which has awarded it with the 'Best Practice' label in the field of preserving our resources and protecting our climate.



SDK - SuperDrecksKëscht® - climate protection in practice

2. Where is the SuperDrecksKëscht® at?





Legal basis:

- Act of March 25, 2005 on the financing of the SuperDrecksKëscht® as modified on July 15, 2022.
- Act of March 21, 2012 on Waste Management as modified on June 9, 2022.

Chargé de Mission (representative) : Oeko-Service Luxembourg SA

The authorized company (chargé de mission) Oeko-Service Luxembourg S.A. undertakes all the legal and other binding obligations such as approvals and contracts for the **SuperDrecksKëscht®**. The highest advisory body of the **SuperDrecksKëscht®** is the six-member Steering Committee composed of the representative of the Ministry of the Environment, Climate and Biodiversity, the Environment Agency, the representatives of the Chamber of Skilled Trades and Crafts and the Chamber of Commerce and also the management of the authorized company.

3. A brief historical overview

In 1985, the **SuperDrecksKëscht**® started as a national campaign for the separate collection of problematic waste-products from private households. Five years later, in 1990, five permanent collection points were available and collection services and special collections were introduced in collaboration with municipalities, organizations and associations. In the same year, the **SuperDrecksKëscht**® moved to the Colmar-Berg site. The so-called Super-FreonsKëscht started with the separate collection and processing of refrigerators, which at the time still contained almost 100% CFCs, which damage the ozone layer.

As the services of the **SDK** fir **Bierger** were well appreciated, the Chamber of Skilled Trades and Crafts joined the **SuperDrecksKëscht®** in 1992 and the **SuperDrecksKëscht®** fir **Betriber** was set up to advise businesses on the prevention, recycling, environmentally sound disposal and handling of waste products. The waste management concept and individual monitoring by consultants was used to accompany businesses. The first labels for ecological waste management were issued at the end of 1993.

Ministry of the Environment, Climate and Biodiversity

Environment Agency





Partners of SuperDrecksKëscht®

Aktioune vum Ministär fir Ëmwelt, Klima an Biodiversitéit mat de Gemengen, der Chambre des Métiers an der Chambre de Commerce



The logistcs center



Advice



Information and activities in the retail sector



Door-to-door collection



Labeling of environmentally-friendly products in the retail sector



Award of the SuperDrecksKëscht® fir Betriber label

From 1995 to 2000, the **SDK** fir **Bierger**'s services were expanded to include door-to-door and Saturday collections, and more and more permanent collection points were set up at recycling centers. In 1995, the **SDK** received a new logo and a new corporate identity. The information services were expanded, and the SuperSpillMobil provided its first activities for children and young people.

At the end of the 1990s and the beginning of the new millennium, the product range continued to expand. In 2001, the yellow collection bucket for kitchen oils and fats was introduced. In 2002, joint campaigns were launched in cooperation with retailers to collect dry batteries and other products such as lamps or lighters.

In 2004, the "service center" was introduced, a mobile recycling center that significantly increased the efficiency of mobile collection. Furthermore, the logistics center in Colmar-Berg was expanded and modernized.

From the outset, the prevention aspect of the **SuperDrecksKëscht®** campaign has focused on both reducing the quantity of problematic products and recommending environmentally friendly products. In 2007, this aspect was given a new framework with the launch of the "Clever akafen" - now ,Shop Green' campaign. The campaign provided consumers and businesses with practical help on environmentally friendly and sustainable consumption.

The **SDK** fir **Betriber** label was certified in 2009 according to the international standard ISO 14024. The Chamber of Commerce joined as a core partner.

The certification of ecological waste management in companies/institutions has thereby been further upgraded and is now an important component of comprehensive certifications, such as ISO 14001.

In 2014, the **SDK** launched the waste management and prevention concept for residential buildings as a further tool for establishing the idea of reverse consumption, i.e. the separate collection of waste products in other areas.

The implementation of the circular economy is now gaining further prominence. With the resources potential certified according to ISO 14024, a new tool has been created to further develop recycling quotas and make them more transparent.

In 2018, additional activities were introduced under the auspices of the **Super-DrecksKëscht**®, i.e. the ECOBOX or ,Repair & Share'.

The corporate design was renewed and the core elements of the **SDK** activity "Resources, Innovation, Sustainability and Circular Economy" were integrated into the new logo to make the continuous development of the **SDK** clear to the public.

In recent years, the **SDK Akademie** in particular has continued to develop positively. The animation and training offers were expanded and well appreciated.

4. Environment Policy – environmental and quality management

Criteria and tasks for the implementation of environmental policy

As part of its environment policy, the **SuperDrecksKëscht®** is committed to environmental protection, to the fulfilment of legal and other binding obligations, and to the continuous improvement of the environmental management system with the aim of improving environmental performance.

The SDK has set itself the following objectives in particular:

As part of the circular economy and resource management

- ⇒ Saving raw materials through resource efficiency management
- Prevention of waste products
- → Preparing waste products for re-use
- → Recycling and recovery instead of disposal of waste products
- → Intelligent and sustainable product design
- → New production and reverse production processes
- Changing consumption patterns ("sharing economy")
- Transparency of all product flows

As part of the general protection of the environment and health

- ⇒ Energy management and climate protection
- Environmental protection and sustainability at suppliers and processing partners
- → Prevention of environmental accidents
- ⇒ Environmental accident procedures reduction of environmental impact

As part of social responsibility

- → Consideration of the interests of all stakeholders
- → Compliance with social standards at local and global level
- → Fair conditions for employees and partners
- → Training, information and awareness-raising regarding environmental protection

Indirect measures

- → Promoting awareness of employees' responsibility
- → Information and dialogue with all stakeholders
- Advising all partners
- → Compliance with environmental standards at suppliers and contractors

SDK's current environment code was revised in 2021 and put into effect by the SDK Steering Committee (highest advisory body) in April 2021.



The EU waste hierarchy



EMAS certificate



ISO 14001 certificate



Awarding of the EMAS certificate



SDK has been awarded the CSR label.



ISO 21001 certificate



The logistics center in 2022

Environmental policy tools - ISO 14001

The **SuperDrecksKëscht**® is certified according to ISO 14001, the international quality standard for the environmental management of commercial, service and industrial companies.

On March 13, 2023, the ISO 14001 certification, which has been in place since 1999, was confirmed as part of a recertification audit. In addition to the internal processes, the success of the consulting activities at companies and municipalities, including the additional activities and the **SDK Akademie** were also audited. The audit revealed compliance with the requirements of the standard and no deviations. The certificate is valid until 13.04.2026.

EMAS

In addition to ISO 14001, the **SDK** undergoes auditing according to EMAS, the European environmental management system. The recertification audit was carried out alongside the verification of ISO 14001 on March 13, 2023. The certificate is valid until 16/06/2025.

RAL quality label

The reverse production of refrigerators, which the **SDK** organizes as part of the producer's liability as the representative of **Ecotrel asbl** (see page 43), has held the RAL "Reverse Production of Refrigerators" quality label since 1999. The quality and inspection regulations are a comprehensive collection of requirements and relate to all phases of the reverse production of refrigerators. The current certification held by SDK is valid until 07/09/2024.

CSR

On March 19, 2023, the **SuperDrecksKëscht®** was again certified with the CSR label by INDR (National Institute for Sustainable Development and Corporate Social Responsibility), which confirms the sustainable and socially responsible conduct of the operation. The current certification held by the **SDK** is valid until March 2026.

ISO 21001

After intensive preparations, the **SDK Akademie** - **SDK**'s training and further education department - was audited on August 29 and 30, 2023 according to ISO 21001 - quality management standard for the education sector - and successfully completed the audit. The current certification of **SDK** is valid until 03/09/2026.

Commodo-Incommodo approval and approval under waste legislation

The existing approvals issued by the Ministry of the Environment, Climate and Biodiversity (issued by the Environment Agency) and the Ministry of Labor, Employment and the Social and Solidarity Economy (issued by the Inspectorate of Labor and Mines) are regularly audited in the context of environmental and quality management (Target-Actual state checklists).

5. Focal points

The duties and commitment of the **SuperDrecksKëscht®** can be illustrated by the following focal points.

1. SuperDrecksKëscht® fir Bierger

Problematic waste products in the household - prevetion and recycling!



Objective: to live and consume healthily and sustainably in the household - today and in the future

The activities include:

- → The management of problematic waste products in collaboration with the municipalities
- Information and awareness-raising regarding waste prevention and sustainable consumption
- → Support for the people living in residential buildings regarding the sorting and prevention of waste products



2. SuperDrecksKëscht® fir Betriber

Ecological waste management in organizations/ businesses



Objective: Practical circular economy by waste prevention and recycling waste products

The advice includes:

- → Linking ecology and economy
- → Priority to waste prevention
- Separate, clean and safe collection and storage
- Transparent and sustainable handling and transport
- → Resource-efficient recycling and disposal
- → Award of the quality label (in compliance with ISO 14024)



3. The SDK Akademie

Activities - Information - Training for every age



Objectives: Promoting environmental awareness and sustainable behavior / consumption

The activities include:

- Information and awareness-raising activities for citizens
- Training and certificates for companies and institutions
- Pedagogical offers to raise awareness and inform children, pupils and teachers
- Training of training officers in companies and institutions





Service for citizens



Practical advice



Award of the quality label



in the SDK center



Activities - Foire agricole



Body care (rinse-off) products



Cooperation with the consumer protection association (ULC)



Cooperation with the municipalities



Training

4. Driving the economy forward



Together with businesses, associations and institutions
Objective: becoming a "Green Economy" - circular economy

The activities include:

- → Sustainable shopping: "Shop Green" with the retail sector
- → Repair and rental services: "Repair & Share" with the craft sector
- → Circular economy in construction
- → Actions against wasting food with HORESCA
- → Information about recycling electrical appliances with ECOTREL



5. Developing society

Together with municipalities, NGOs and the social economy



Objective: health and well-being for all people, today and in future

The activities include:

- → Projects with Emweltberodung (Environmental Counceling Luxembourg) for sustainable municipalities
- Making events more sustainable with Oekozenter Pafendall (Green Events)
- → Supporting the social economy
- → Information for sustainable consumption with the ULC

6. Innovation

New solutions in logistics, waste management and recycling



Objective: protecting resources and the climate - preserving livelihoods - closing cycles

The activities include:

- → Making waste logistics safer, more efficient and more sustainable
- → Promote practical solutions such as the the smart waste conatiner/lock
- Contributing to more safety, for example when collecting rechargeable batteries (with Ecobatterien)
- Driving forward sustainable recycling and recovery processes using the resources potential
- Establishing and developing reusable systems such as the ECOBOX



B. Sustainability factor: economy - actively promoting the economy

1. Circular economy and resource efficiency

Circular economy and resource efficiency

Based on the existing know-how, the strategy of the **SuperDrecksKëscht®** 's strategy aims to further develop classic waste management into a reverse consumption economy. With the reverse consumption and reverse production concepts, waste products are collected cleanly and directly and can thus retain their value better than with classic mixed collections of waste. The resources potential tool plays an important part here (see section F.2).

In addition to reverse consumption and reverse production, the "clever" concepts of the **SuperDrecksKëscht**® ("Shop Green", "Share & Repair") are aimed at the re-use of products and the use of ecological products. Another aspect is the further development of intelligent designs of new products ("Ecodesign").

To further develop the strategy, the **SDK** is also working with Luxembourg's municipalities and regions to promote innovative concepts and transform waste management into a circular economy/resource economy.

The activities carried out by the **SDK** are fully in line with the **Null Offall Lëtzebuerg** (zero waste) strategy presented by the Ministry of the Environment in September 2020, which is aimed at reducing non-recyclable residual waste to zero.

Sustainability and economy

The activities of the **SuperDrecksKëscht®** campaign play an important role in the 2018 national plan for waste management and resources, as well as in the 3rd national sustainability plan, which takes into account the sustainability targets of the UN (Agenda 2030).

This concerns, for example, helping to develop and promote Luxembourg as a location for environmental technology companies and service providers, avoiding the production of toxic waste, reducing the vulnerability of the economy to fluctuations in resource prices, or developing scenarios to help decision-makers ("post-growth economy").

2. Product flow management and resources potential

Product handling and product flows

In 2023, the product handling lists, which represent the product flows at the SDK from the collection point to the logistics center to shipping to the product receivers, were also subjected to an audit and optimized.









The SDK logistics center

B. Economy – actively promoting the economy



Sampling in the SDK logistics center



Quality control in the SDK laboratory



Advice for waste prevention

Logistics center

The logistics centre received 4,415.7 tonnes of valuable and problematic products in 2023. In 2022, the figure was 4,425.7 tonnes. The volume therefore remained practically the same, down 0.2 %. In 2023, 4,354.2 tonnes were transported from the logistics centre to the product recipients. In 2022, the figure was 4,412.4 tonnes, 1.3% less than in the previous year.

This is due to individual products that could not be handled as planned due to restrictions at partners/product recipients. 665 tonnes were in stock as at 31 December 2023. The average for the year was around 800 tonnes, with a corresponding handling frequency of around 5-6.

The plan is to maintain stock levels at 600 - 800 tonnes; a further reduction in stock levels is hardly possible due to the variety of products and the provision of economically and ecologically sensible transport volumes (complete truckloads; fees).

Quality control by the SDK laboratory

The number of samples of ,products' and ,unknown products' in 2023 was on a par with previous years, totalling 1,965 samples. In 2022, there were 2,011 samples.

The largest item continues to be the sampling of waste oils with 1,393 samples. Solvent samples totalled 319 (401 samples in 2022). The main task in the aforementioned sampling was to check the quality parameters with regard to recyclability and recipient parameters (limit values). In the case of non-recyclable products, particular attention was paid to parameters that are relevant to the transport of hazardous goods (ADR legislation) and must be observed by the product recipient in the context of safe and environmentally sound recycling/disposal.

At 9,377, analyses of indoor air/radioactivity and special batches were also in line with the previous year's figures.

The support of the resource centres in the professional conditioning and declaration of laboratory chemicals and the creation of laboratory concepts for problem products with specific collection structures for schools and research centres was continued.

As part of the **SDK** fir **Betriber**, laboratory employees conditioned special items of hazardous substances at 66 customers (60 customers in 2022), created and updated concepts and sampled 122 products (compared to 98 samples in the previous year).

Prevention strategy for companies – the SDK fir Betriber

As part of the **SDK** fir **Betriber** concept, there is a prevention catalogue that contains all the preventive measures successfully implemented in the member companies/institutions. A number of companies/institutions recorded the economic benefits of prevention-orientated waste management. The "Shop Green" campaign should also be seen as an important tool to promote resource efficiency (see section F.2).

B. Economy - actively promoting the economy

3. Product receiver policy

Product receivers will be evaluated according to the requirements of the EU hierarchy of treatment methods as well as the **SDK** environment code and taking into account the concept of the resources potential (see section F.2).

Only product receivers that meet the specifications and thus handle the products in the sense of a sustainable and resource-efficient economy (circular economy) are eligible.

The audit is performed after visiting the premises and reviewing permits, certificates and other relevant documents.

SDK representatives visited 43 product receivers/suppliers in 2023. Topics included resources potential/auditing of product receivers and general topics such as climate protection. In addition, there were 19 appointments with product receivers or partners at the Colmar-Berg site, including online conferences. The calculation of the resources potential according to the **SDK** concept has been continued as far as possible.

4. Innovations in logistics and technology

Technical know-how

In the field of transport and warehouse logistics, the **SuperDrecksKëscht®** has developed special vehicles and special logistics in recent years, particularly concerning the area of collection and transportation of problematic products.

Logistics/vehicles: the fleet of trucks was updated in 2017/2018 and replaced with more environmentally friendly and lower-emission vehicles (Euronorm 6d temp; see section C.6). A new Oleocont superstructure to optimize the collection of oil-contaminated products, oil and diesel filters, and ink-contaminated paper and films was put into operation in 2021.

Reverse production: further improvements were carried out in 2020. For instance, a fitting was integrated on the existing sorting conveyor for directly tipping plastic pallet boxes. On this line, the employees of Ligue HMC check the incoming old candles for foreign substances before they are transported to the product receiver Kaërzefabrik Peters for the re-use of old candle remnants in the production of candle shells and torches.

As part of a pilot project with Peintures Robin, old water-based paints are sorted out for the manufacture of a new product. These have been marketed under the name RobinLoop since the 2nd quarter of 2021.

In order to optimally use the pallet storage spaces in the block warehouse, some end-of-life products have been stored on metal stanchion pallets on two levels since 2021/2022. Used products in big bags such as CDs and plastic regrinds can also be stored on two levels using the stanchion pallets. The modular design of the metal stanchion pallets, consisting of upper and lower parts as well as bars (stanchions) in different lengths, makes it possible to react flexibly to the different areas of application (e.g. collection of eternit/asbestos cement with 1 m stanchions, storage of PU cans with 2.5 m stanchions).



Refrigerator recycling with the latest technology and a high resources potential



Sorting medicines by means of a sorting belt



Compactor for Styropor® and foamed materials

B. Economy – actively promoting the economy

Know-how in information technology / digitization

The further developed, partly newly programmed warehouse program went into operation from 01/01/2021. All the movements of incoming products can be completely tracked via barcode until they are shipped to the product receiver.

As part of the further optimization process, the recording of working time - by work areas and activities - was structured and digitized in 2020. This will make it possible to analyze the individual reverse production processes in detail for potential optimizations and to improve procedures.

Further steps towards digitization have been taken with the aim of optimizing processes and saving paper. In particular, the **SDK fir Betriber**'s consulting activities have been consistently digitized, and the consultants can now work largely without paper.

5. The well-known SuperDrecksKëscht® label

Consumer brand and business promotion tool

The **SuperDrecksKëscht**® label is a quality label for environmentally sound management of waste. It is certified according to the international standard for eco-labels, ISO 14024 and distinguishes facilities from the private and public sector that implement the concept of the **SDK fir Betriber** and make an active contribution to protecting the environment through modern waste/resources management.

Facilities in the sense of the certification regulations are, for example, companies and administrations, construction sites, community housing complexes (residential buildings), co-workings spaces or waste collectors. For the consumer it is a reliable label to recognize institutions/companies that act sustainably. The number of institutions/companies having the label on December 31, 2023 was 3,568. This is an increase of 2.8 % compared to the previous year (3,468).

The label was adapted in 2021 to reflect further developments in society in the area of sustainability and the circular economy. It now stands for handling resources in a sustainable manner. This rates the performance of the certified companies more than the slogan "for ecological waste management".

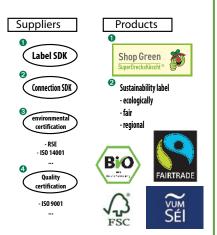
6. Supplier policy and purchasing guidelines

Supplier policy and purchasing guidelines comply with the objectives stated in the environment code of the **SuperDrecksKëscht®**, as well as with the requirements of the National Pact on Business and Human Rights, which the SDK signed on 06/07/2022.

To promote reduced environmental impact and resource efficiency, the **SDK** has established environmental and climate protection requirements for suppliers and processing partners. A specific management task is to advise the partners and to check their compliance with environmental standards.

The same applies to the purchasing guidelines: suppliers with the **Super-DrecksKëscht®** quality label are preferred, followed by member companies; when it comes to foreign suppliers, there is a preference for those that are





SDK procurement policy and hierarchy

B. Economy – actively promoting the economy

certified to ISO 14001 or EMAS. Whenever possible, products with the "Shop Green" label are used, e.g. office supplies, cleaning agents or rinse-off products.

A catalogue of criteria must generally be applied to procurement. It contains already existing criteria for the "Shop Green" products and further criteria for exhibition stands, information and materials for activities, for furniture, electronical and electrical devices, for food products, textiles and clothing as well as for promotional items.

7. Cooperations and joint projects

The **SuperDrecksKëscht®** has initiated or is involved in a large number of projects together with its core partners: the Ministry of the Environment, Climate and Biodiversity, the Environment Agency, municipalities, the Chamber of Skilled Trades and Crafts, and the Chamber of Commerce.

These cover all stakeholder groups, from the consumer protection association as the representative of consumers, to non-profit organizations from the fields of environmental protection and nature conservation, to the representatives of the various economic sectors (crafts, services, trade, industry, agriculture), to public administrations. The stakeholder groups are listed in a document and their requirements as well as opportunities and risks of collaboration are documented.

Waste collectors

Within the framework of the **SDK** fir **Betriber**, the **SDK** offers advice and training to all authorized waste collectors with a license to transport or act as an agent. The collectors have the possibility to sign a cooperation contract and thus to apply for the **SuperDrecksKëscht**® label for collectors. In 2023, 10 of the 14 cooperation partners who signed a convention with the SDK were awarded with the **SuperDrecksKëscht**® quality label, 8 of which were awarded the diploma (5 years and longer awarded with the label).

Cooperation partners who have not yet met the criteria for the label will be supported in achieving the quality standards and obtaining the label. Training will also be provided for this purpose. Facilities that use label-awarded cooperation partners for the disposal of their end-of-life products have the guarantee that they are treated according to the latest state of the art in terms of recycling and resource conservation.

Pharmacies

Together with Luxembourg's pharmacies, the **SuperDrecksKëscht®** offers a safe collection of old medicines. Pharmacies can also receive advice tailored to their needs within the framework of the **SDK fir Betriber**. As regards the collection of medicines, 18,65 % of the total volume was collected via pharmacies in 2023.



Collection in a pharmacy

B. Economy - actively promoting the economy



Sorting waste on construction sites



A graphic about the consulting service offered by the **SuperDrecksKëscht**® in the HORESCA magazine



Drive-in collection point at the Howald Cactus

Construction sector

Modern waste management concepts that meet the criteria of sustainability and circular economy are particularly important in the construction sector. The **SDK** shares its know-how with important institutions such as the IFSB (construction sector training centre), OAI (association of architects and eEngineers) and LIST (national research centre) (see section F.4).

Gastronomy and tourism

There are good contacts with the Luxembourg gastronomy association HORE-SCA. This association supports the return of used kitchen oils and lighters and regularly publishes tips for its members in the "HORESCA Magazine".

In the further development of reusable concepts (see section G.2) to fight food waste, there has been an intensive exchange of know-how with HORESCA with the aim of promoting practical solutions.

There is good cooperation with those responsible for the Ecolabel for tourism companies. Companies with the **SuperDrecksKëscht**® label fulfill the criteria (waste sector) without further inspection.

The number of affiliated establishments from the gastronomy sector as of December 31, 2023 was 495 establishments, corresponding to a share of 8,8% of all affiliated establishments.

Retail

The Luxembourg retail sector has been a partner of the **SuperDrecksKëscht®** for many years in the collection of problematic waste products. Since the 1990s, there has been cooperation in the collection of dry batteries and fluorescent tubes. Some supermarkets have expanded their offer and, in cooperation with **Ecotrel asbl**, **Ecobatterien asbl** and **SDK**, offer customers the opportunity to take back other waste products such as small electrical appliances or toner/ink cartridges.

From 2011 to 2023, **SDK** played a key role in the drive-in recycling pilot project at Cactus Howald (municipality of Hesperange). The aim of this project was to examine how the return of recyclable waste products in supermarkets is accepted, with the aim of generally increasing collection rates and utilising existing routes. The pilot project was concluded with positive results and has been continued by the municipality of Hesperange since 01/01/2024.

The retail sector has been a key partner of the **Shop Green** campaign from the start, the idea of this campaign being to place and promote environmentally friendly products in the retail market (see section F.2).

B. Economy – actively promoting the economy

Agriculture

The **SDK** is constantly in contact with the Ministry of Agriculture and ASTA (Administration of Technical Agricultural Services) to encourage more farms to join **SDK fir Betriber**. Great support for projects in the field of agriculture is provided by the Maschinenring, MBR. As of December 31, 2023, 113 businesses from the agricultural sector had joined.

Industry / producer systems

Since the introduction of producer responsibility for electrical/electronic waste and batteries, the **SDK** has been an authorized partner of the national companies **Ecotrel asbl** and **Ecobatterien asbl**.

In the field of electric/electronic waste, the **SDK** takes care of the collection of refrigerators, electric oil radiators and lamps. The **SDK** supports **Ecotrel asbl** and **Ecobatterien asbl** in public relations and projects aimed at improving safety and resource efficiency.

ULC (Consumer Protection Association)

The **SDK** works closely with the Union Luxembourgeoise des Consommateurs to provide information and raise awareness. Every issue of "de Konsument", the magazine of the ULC, contains a supplement with consumer information on products, waste prevention and recycling.

Oekozenter Pafendall

The cooperation with Oekozenter Pafendall was intensified in 2017. Together, a concept for green events was developed, which officially started in September 2019. The aim is to structure the existing experiences and best practice examples of various municipalities and associations and to pass on the know-how by means of consulting activities and online (see section G.5).

The **SDK** is a consulting partner to oekotopten, the Internet platform about the best ecological products in various product categories under the umbrella of the Oekozenter. Oekozenter Pafendall is also a partner of the project "Repair&Share" (see section G.6).

The **SuperDrecksKëscht®** is also a partner within the framework of other projects and networks. For example :

• "without pesticides" campaign in cooperation with Emweltberodung Lëtzebuerg, natur & ëmwelt, the Ministry of the Environment, the Ministry of Agriculture, municipalities/syndicates, etc.



Information flyer for the agricultural sector











B. Economy – actively promoting the economy



The SDK-Team

8. Prospects

The **SuperDrecksKëscht**® will continue to carry out the tasks assigned to it within the framework of the national policy on sustainability and the circular economy, and will be available as a partner to all those who are also working on the ecological transformation of society.

In 2024, product receivers will continue to be tested using standardized test reports. The calculation model of the resources potential according to the concept of the **SuperDrecksKëscht®** will be implemented as far as possible. Upon request, external partners can have their resources potential checked and verified by the **SDK**.

The work processes in the logistics center and transport logistics will continue to be intensively analyzed with the aim of organizing the work processes in such a way that they can operate with maximum efficiency.

The recycling centers/resource centers and businesses (schools/universities and research centers) will continue to be monitored at a high level in terms of correct packaging and declaration of hazardous substances.

Analytical methodology will continue to be developed to ensure efficient and systematic processing.

C. Sustainability factor: ecology – actively promoting an ecological society

1. Products

OEKO-Pur

The OEKO-Pur recovered in the course of the reverse production of refrigerators consists of polyurethane from which the CFCs and VHCs have been extracted. This is to prevent their release as this could damage the climate. Each kg of OEKO-Pur thus prevents 250 kg of climate-damaging $\rm CO_2$ emissions.

OEKO-Pur is an excellent binding agent for oil and other organic liquids such as solvents, brake fluids and coolants, paints and varnishes etc. It is available in 3 different grades (powder, granulate, fine granulate).

In 2023, 2,113 bags were sold. In general, OEKO-Pur continues to be in demand as a product of the circular economy. The awareness of companies for clean working and the prevention of incidents through advice contribute to responsible consumption. All 3 products (Plus, Compact and Fine Granulate) are used in a specific way, depending on the different areas of application.

OEKO-Pur has been promoted to fire brigades, the "Protection Civile", the "Ponts et Chaussées", municipalities and other institutions.

In order to ensure the correct use of OEKO-Pur, users are advised not only to use the product correctly, but also to store and dispose of it safely.

Consumables

As outlined in section B.6. – Supplier policy and purchasing guidelines – purchases are made in accordance with the objectives stated in the **Super-DrecksKëscht**®s environment code with the aid of a catalogue of criteria.

Logistics

In accordance with the **SDK**'s environment code, in addition to analyzing, describing, and evaluating packaging materials, the focus is on avoiding them. All packaging is recycled as much as possible. This includes cardboard boxes and plastic containers.

In the case of cardboard, the required proportion of virgin fiber now comes exclusively from certified forestry (FSC/PEFC). As a result, the cardboard used consist exclusively of this and recycled material.

Plastic barrels that are not completely filled are cleaned by an external service provider and reused by the **SuperDrecksKëscht**®.

Office supplies

The office materials used internally are purchased in accordance with the criteria of the **Shop Green** campaign. Internal instructions are in place to reduce paper consumption. In addition, the digitization of processes is being driven forward.

The **SuperDrecksKëscht**® has been using 100% recycled paper in the offices for a long time and commissions all print products in recycled quality.



Use of OEKO-Pur



The 3 product categories of OEKO-Pur



FSC certified cardboard







The "Shop Green" criteria (see G.2) are also being applied internally.



Organic fruit basket

Details with the figures for the last 5 years, as well as graphs on energy and water consumption, emissions and waste generation can be found in the current environmental statement:



environmaental statement of the SDK

Cleaning agents

The cleaning agents used internally are procured in accordance with the criteria of the **Shop Green** campaign. Instructions are given to the company's own cleaning staff to ensure correct use.

Promotional items and giveaways

The promotional items and giveaways used in events (Clever Entdecken), prize draws and support of charitable campaigns and associations must comply with the Shop Green criteria in accordance with the SDK criteria catalogue or have generally recognized environmental labels and - if applicable - originate from fair trade.

Work clothes

Work clothes will be ordered in organic quality and/or fair trade as long as it meets the safety criteria and other requirements, according to the criteria defined in the catalogue.

Food

The food and beverages offered to employees and guests (fruit, coffee, sweets, etc.) are all organic and/or fair trade, according to the criteria defined in the catalogue.

Drinking water is taken from the water pipe with an Inowatio system. This avoids packaging and transportation costs for bottled drinks. Of course, reusable CO₂ bottles are used to avoid wasting resources.

The coffee/coffee beans for the coffee machines have been delivered in 20 kg reusable PE drums since 2018/2019. This has led to savings in packaging.

2. Energy

Electricity

Total electricity consumption increased by 33.1 % to 399,758 kWh in 2023. This is due to the increasing share of electricity consumption by electric vehicles, attributable to the high purchase of electric vehicles for employees (see point C.6 Mobility). The estimated share in 2023 was 141,171 kWh (compared to 68,272 kWh in 2022), corresponding to 36.6 %.

The **SDK** has been using green electricity (enovos Naturstrom) for several years.

The planned energy generation at the site was realised in 2022. The PV system on Hall 1 with an output of 719.14 kWpeak was connected to the grid on 30 November 2022. The system is designed for self-consumption. The electricity produced is initially consumed by the company itself. The surplus is fed into the grid.

In 2023, the PV system produced 575,999 kWh. This results in a positive balance of 176,241 kWh, which was more produced than consumed.

Heating energy

Since 2015, the entire Colmar-Berg site has been supplied with heat via a central heating system. Total fuel consumption in 2023 was 55,492 litres. In the previous year, it was 48,611 litres. Of this fuel consumption, 45,595 litres were used kitchen oil and 9,897 litres biodiesel. Over 80% of the energy requirement was therefore covered by used kitchen oil. The additional consumption in 2023 is due to the lower calorific value of used kitchen oil, climatic fluctuations and fluctuations in hot water requirements in container cleaning.

Emissions and odors from the use of used kitchen oil were not a problem for the neighborhood.

3. Water

Water consumption was also continuously monitored in 2023 and drinking water was saved wherever possible. In 2023, 712 m³ of rainwater was consumed (for tank cleaning/vehicle cleaning/irrigation).

Drinking water consumption could not be determined for technical reasons, as 2 out of 3 water meters were not working at the end of 2023, which was not the responsibility of the **SDK**.

Tap water

As stated in section C.2, drinking water is taken from the water pipe with the Inowatio system.

Waste water

All waste water is routed through oil and grease separators and controlled before being discharged into the public sewer system.

4. Biodiversity

Green areas

Native plant species are used in the landscaping. The green area between Hall 1 and the Colmar-Berg residential area was planted with native high-trunk fruit trees. In 2019, a flower meadow was planted with native species. In 2020, a large insect hotel was added to the site.

The other green areas are also kept as natural as possible to provide a habitat for as many plants and animals as possible. There is also a bird feeding.

Pesticides

The **SuperDrecksKëscht®** is a member of the "without pesticides" platform (see section B.2). Pesticide use on outdoor areas and against animal pests is avoided with a few justified exceptions.



Part of the heating system for used cooking oil



Rainwater supply



Tap water from the water pipe



Insect hotel and flower meadow

5. Emissions, sewage and waste

Emissions

The recurring emission measurements (dust, heavy metals and VOCs) prescribed in the operating licence has to be carried out every 3 years by an authorized body and were last carried out on 10/11/2022. The next measurements will therefore not be carried out until 2025. The values measured on 10/11/2022 were all well below the respective specific limit values.

The continuous monitoring of VOCs (volatile organic compounds) carried out by the operator resulted in an extrapolated total annual quantity of 2.394 kg of VOCs emitted for the reporting period, which corresponds to 0.6% of the permitted maximum emissions of 400 kg of VOCs. Compared to the previous year (65.93 kg), this is a significant reduction, partly due to the replacement of the activated carbon filters at the end of 2022, and the quarterly measurements for mercury vapour, chlorine gas, hydrogen cyanide, hydrogen sulphide, ammonia and phosphine carried out by the operator in the exhaust air flow from the filter tower showed values below the detection limit.

Measurements of explosive mixtures are carried out as required. In 2023, these were carried out in February, March, June, September, November and December. Of the 13 measurements carried out, only in February was there a finding of 25-30% of the lower explosion limit (LEL) on a solvent container. In general, the room air is continuously tested using Ex sensors.

Waste

In 2023, 70.69 tonnes of waste (compared to 41.21 tonnes in the previous year) was generated, including waste from reverse production. The main reason for this is the disposal of decommissioned used kitchen oil containers (8.6 tonnes) and collection cartons (6.3 tonnes; not previously recorded separately), which account for the increase in the waste from reverse production category. Furthermore, the volume of separator contents and green waste is far higher than the previous year's volumes. A particularly large amount was cut back in 2023 when maintaining green spaces. All of the waste categories mentioned, as well as the processing of old stock, are non-cyclical.

Waste from offices/administration totalled 4,379 kg in 2023, which is roughly the same level as in previous years. Annual comparisons are more possible here. The non-recyclable residual waste included in this figure totalled 1,103.5 kg, corresponding to 25.2 %. It also included 2,769.9 kg of valuable products (63.2 %) and 505.9 kg of problematic products (11.6 %).

6. Mobility

Vehicles

Since 2017, the vehicle fleet has been developed even more intensively with regard to low-emission drive systems. At the end of 2023, there were 56 electric vehicles in the fleet. Since autumn 2022, all employees with more than 2 years of service have been offered an e-vehicle (small car). This is part of the **SDK** climate protection strategy.



Filtration system and sorting stations



Internal waste collection station



Electric vehicles

A large number of trucks were replaced with more efficient and lower-emission vehicles in 2017/2018, which had a noticeable impact on both fuel consumption and emissions.

Fuels

Consumption rose to 1,300,209 kWh due to the high number of company cars. Trucks accounted for 751,812 kWh (57.9 %), Infomobiles and door-to-door collection vehicles for 132,602 kWh (10.2 %) and cars for 415,795 kWh (31.9 %).

The share of fossil fuels was only 7.58% in 2023. 78.25 % was covered by biodiesel. At 184,251 kWh, the proportion of electricity used by electric vehicles (predominantly green electricity) was 14.17% (compared to 8.5% in the previous year).

The average fuel consumption of trucks was 471.19 kWh/100 km (approx. 52.35 litres), while that of Infomobiles and door-to-door collection vehicles was 107.95 kWh/100 km (approx. 11.89 litres). The fuel consumption of the cars was 27.18 kWh/100 km. These figures are on a par with the previous year. Overall, fuel consumption in relation to kilometres driven was only 71.66 kWh/100 km (previous year 92.06 kWh). Fuel consumption per employee was 18,058.50 kWh.

Thanks to more efficient and lower-emission vehicles, NO_x and particulate emissions were further reduced. CO_2 emissions also decreased significantly compared to 2022.

A study/ life cycle assessment of the use of biodiesel vs. fossil diesel was commissioned at the end of 2022.

Further details on fuel consumption and traffic-related emissions can be found in the Environmental Statement 2024 and the current Climate Protection Report.

Volume of traffic

The volume of traffic, i.e. the traffic generated by our own vehicles, suppliers and visitors, is at the same low level as in previous years.

7. Use of space

In 2014, the administration building was expanded by 510 m² of usable space. For this purpose, the already sealed container area was used and no further area was sealed. Construction was carried out in accordance with the specifications using environmentally friendly building materials and the building was optimally equipped in terms of energy and energy technology (e.g. use of LED lighting).

8. Prospects

In 2024, all ecologically relevant activities will again be reviewed for their sustainability in order to avoid or reduce negative environmental impacts.



Mobile collection vehicle



Use of biodiesel



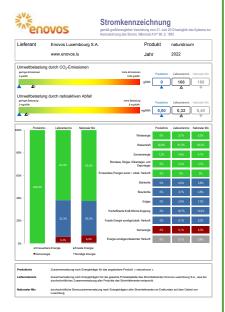
Service station with waste collection point

SDK - Climate protection in practice





SDK - climate protectionin practice Link to the current climate protection report



Electricity mix Naturstrom 2022

Climate assessment according to GHG Protocol

In 2020, the **SDK** set up a climate assessment for the first time based on the international GHG (Greenhouse Gas Protocol) standard, in which the direct and indirect greenhouse gas emissions were listed and quantified as far as possible. A climate council has been in place since 2021.

The assessment primarily refers to the emissions caused at the site of the **SuperDrecksKëscht**®, as well as the emissions caused by upstream and downstream processes. Details can be found in the detailed Climate Protection Report, which is continuously updated and also contains the objectives and planned prevention activities.

Scope 1 - direct emissions

The direct emissions were:

- → Transport: 27.1 tonnes of CO₂ equivalents from vehicles (trucks, vans, cars). In 2019, this figure was still 194.4 tonnes of CO₂ equivalents (decrease of over 86%). This is due to the highly increased use of biodiesel and electric vehicles.
- → Heating/heat: Through the direct use of collected used kitchen oil and biodiesel in the central heating system, a total of 137.34 tonnes of CO₂ equivalents could be avoided that would have been produced if fossil heating oil had been used.
- → Machines: This concerns high-pressure cleaners, roll packers (compactors) and sweepers. The existing gas-powered forklift was already replaced by an electric forklift in 2021. Various measures (replacement of fossil diesel with biodiesel, new second-hand gas-powered sweeper that uses gas from collected gas cylinders, etc.) have reduced emissions to 12.9 tonnes of CO₂ equivalents.

If the emissions avoided through the use of used kitchen oil and biodiesel in heating were credited, the consumption by the vehicle fleet and machinery would already be significantly offset.

Scope 2 - indirect emissions

The indirect emissions were:

- → Electricity consumption at the site: As stated, this is purchased as green electricity from enovos. The electricity labelling for this product in accordance with the Grand Ducal Regulation of 21 June 2010 shows 0 kg CO₂ equivalents.
- → Electricity production: In 2023, 176.241 MWh more electricity was produced than consumed. The CO₂ savings from the use of natural electricity and the production of green energy totalled 143.2 tonnes of CO₂ equivalents compared to the national electricity mix.
- → Electric vehicles: These are charged on site, via the national Chargy system and by private charging. In general, a value of 0 kg CO₂ equivalents is also shown here for the use of e-vehicles, as these are largely powered by green electricity.

SDK - Climate protection in practice

Scope 3 - indirect emissions

Data on Scope 3 emissions was recorded in full for the first time in 2023 for the 2022 reporting year. As not all Scope 3 calculations for 2023 are yet available, data for 2022 is also provided below. The full detailed climate protection report is available on the **SDK** website

Scope 3a - indirect emissions from upstream activities

- → 3.1 Purchased goods and services (logistics containers, office/supply materials, etc.). Purchasing is carried out in accordance with the guidelines for suppliers and products described on page 14 (point B.6). In 2022, a total of 169.2 tonnes of CO2 equivalents was calculated here.
- → 3.2 Capital goods: Purchasing is carried out in accordance with the guidelines for suppliers and products described on page 14 (point B.6).
 - PV system: The upstream chain, production and installation of the PV system purchased in 2022 has an impact of 582.5 tonnes of CO₂ equivalents.
 - Renault-Zoe: The upstream chain, production and downstream chain of 29 vehicles procured in 2022 have an impact of 727.9 tonnes of CO₂ equivalents.
 - Logistics containers ,SAP' (are counted as capital goods): Upstream chain, production and downstream chain account for 36.3 tonnes of CO₂ equivalents.
 - In 2022, a total of 1,559.7 tonnes of CO₂ equivalents was calculated here.
- → 3.3 Upstream chain of fossil fuels used in 2022 In 2022, a total of 83.97 tonnes of CO2 equivalents was calculated here.
- → 3.4 Upstream transport and distribution

This relates to waste processing in Luxembourg by cooperation partners and the transport of waste products from the logistics centre to the product recipients. In 2022, a total of 174.19 tonnes of CO₂ equivalents was calculated here.

Scope 3b - site-related indirect emissions

- → 3.5A self-generated waste: The management of self-produced waste is based on the **SDK fir Betriber** concept and is prevention-orientated. The calculation of the waste generated in 2023, including waste from reverse production, results in a quantity of 142.36 tonnes of CO₂ equivalents¹⁾.
- → 3.5B collected and treated waste: The resource potential concept favours sustainable and resource-oriented treatment and recycling processes. Based on the ZWS Carbon Metric Factors data, a saving of 416.9 tonnes of CO₂ equivalents was calculated for 2023.
- → 3.6 Business trips: Business trips abroad that are not made with company vehicles are rare. In total, business trips (flights, train journeys) by 9 employees in 2023 resulted in emissions of just 1.1 tonnes of CO₂ equivalents.
- → 3.7 Employees: In autumn 2022, all employees who have been with the company for 2 years or more and did not yet have a company vehicle were provided with e-vehicles, which are mainly charged at the site with electricity produced on site. This leaves a value of 36.47 tonnes of CO₂ equivalents, left over in 2023.

Scope 3c - indirect emissions from downstream activities

→ 3.9 Downstream transport and distribution This includes the travel of training participants and visitors as well as employees who are employed by Ligue HMC. In 2023, a value of 32.99 tonnes of CO₂ equivalents was calculated here.

In general, all concepts include environmentally friendly and sustainable behavior in line with the slogan "climate protection in practice".

1) Calculation basis: ZWS Carbon Metric Factors 2020 (Zero Waste Scotland)

D. Social responsability – the SuperDrecksKëscht® team



Honoring employees for long-standing service to the company in 2021



Saying farewell to a long-standing employee



Having a barbecue together

1. Employees

The organization chart of the authorized company (chargé de mission) is divided into 8 divisions plus franchise. The directors and the managing director are in charge. The highest body of the **SuperDrecksKëscht®** is the Steering Committee. Since October 2021, it is composed of 6 people, who are: a representative of the Ministry of the Environment, Climate and Biodiversity, a representative of the Environment Agency, one representative each of the Chamber of Skilled Trades and Crafts and the Chamber of Commerce, and 2 people from the management of the authorized company.

The current works council was re-elected in 2019. It consists of 3 people and represents the interests of all employees. As part of the ISO 14001 and CSR certifications, the work safety officer and the sustainability officer continue to look after the interests of the employees. In 2023, 8 employees were honored for their long-standing service to the company.

2. Guidelines

All employees are committed to respecting the following guidelines in their behavior and dealings with each other:

- 1. Punctuality and appearance (punctuality, cleanliness in the work-place, clean and proper work clothes)
- 2. Careful and responsible use of the equipment provided (responsible care and maintenance of all equipment and infrastructure, e.g. computers, vehicles, etc.)
- 3. Support of restructuring measures (willingness to implement all restructuring measures, introduction of suggestions for improvement, flexibility throughout)
- 4. Adherence to the **SDK** culture (honest and open interaction with each other, respect for other employees, support for others, especially new employees)
- 5. Compliance with quality and safety guidelines (compliance with the agreements in each work area as well as compliance with and implementation of the environment code in accordance with EMAS/ISO 14001)

There is a procedure for improvement suggestions. Successful suggestions are rewarded. Compliance with the policy is reviewed annually. If necessary, deviations are discussed in an employee appraisal. If the policy is not followed, the policy bonus may be reduced accordingly.

D. Social responsability - the SuperDrecksKëscht®-team

3. Safety at work

The work safety officer looks after work safety and regularly checks compliance with safety regulations, such as the wearing of protective glasses and protective clothing in the logistics center.

Upon recruiting new staff, as well as within the framework of the continuous training of staff, the work safety officer regularly conducts refresher training on the operating instructions.

Workplace measurements

(WEL - Emissions of harmful substances into the workplace air)

These measurements by an authorized body must be carried out every 64 weeks. The last measurement took place on 10.11.2022. Therefore, there was no measurement in 2023.

The emission measurements on 10.11.2022 to monitor compliance with the OEL values (emissions in the workplace air) were carried out by Luxcontrol ("organisme agréé"). The measurements were taken at the forklift, paint/lacquer station, GWE transfer station, illuminant station and plastic press workstations.

The values from 10 November 2022 can be found in the previous year's report. The values measured here were well below the permitted limits. They were therefore not exceeded in any work area.

4. Training and communication

Internal training

In 2023, there were a total of 171 internal training modules.

All qualification measures are documented in the 2023 training plan. The success of the training was evaluated by the employees. The topics included: The updated Circular Economy Law/news from national waste management, environmental and sustainability management, as well as product processing and recycling.

All operational employees were specifically qualified in the areas of incoming and outgoing goods as well as reverse production and logistics. This included operating procedures, work and sorting instructions as well as the processes within the warehouse programme.



Safe sorting of unknown products



Inspecting the filter tower



Visiting Kiowatt

D. Social responsability - the SuperDrecksKëscht®-team



Internal communication

All new permanent employees, depending on the area of operation, and all temporary employees, depending on the duration of employment, also received comprehensive induction training consisting of basic training on the activities and philosophy of the **SuperDrecksKëscht**®, work safety / safety briefing, as well as on certifications, logistics and the laboratory.

Internal communication

Regular meetings are held to share information within the departments, between management and each department, and at the management/coordinator level. The company meeting with all employees, which is usually held once a year, took place on 15 September 2023.

Further information is shared via the intranet and social media, primarily through the PR Marketing and Administration divisions, as well as through notices.

5. Work-life balance

The **SDK** employees have individual options for structuring their jobs and working hours within the framework of the agreements. For example, daily, weekly and monthly working hours can be arranged in a family-friendly manner within the framework of the total number of hours.

All employees can thus benefit from opportunities for childcare, including parental leave.

Another advantage of the individually configurable working hours is the possibility to avoid rush hour/commuter traffic. Within the framework of legal requirements, home office is also possible.

6. Diversity and equal opportunities

Diversity

Gender: The proportion of female employees in 2023 was 33% (31 to 62). There are no differences in salaries.

Nationalities: The **SDK** employs people of the following nationalities: Luxembourg, Germany, Italy, Belgium, Portugal and France.

Integration / Inclusion: At the end of 2023, 12 people with disabilities were working in the logistics center in the reverse production department (sorting and dismantling valuable products) with the aim of professional integration. They were accompanied by three supervisors. These employees are integrated in the normal work process. The partnership between Ligue HMC and **SuperDrecksKëscht®** has existed since 2000.



D. Social responsability - the SuperDrecksKëscht®-team

To reaffirm its diversity policy, the **SDK** signed the Diversity Charter Luxembourg in September 2019, thereby committing to actively promoting equal opportunities and non-discrimination vis-à-vis its stakeholder groups.

In 2022, the SDK also signed the Human Rights Pact.

Traineeships

For several years now, the **SuperDrecksKëscht®** has been offering pupils and students the opportunity to gain work experience in a future-oriented company in the environmental sector.

In 2023, 2 students completed an internship at the **SuperDrecksKëscht®** as part of their school education. The internships lasted one week and 2 months respectively.

Depending on the requirements and specifications of the school/college/university, the induction and supervision of interns is organized individually. This is done, for example, through assignment plans for the various departments in theory and/or practice.

As part of the national Day Care Day, 6 young people also attended the **SuperDrecksKëscht**®.

7. Prospects

The organization chart and guidelines will be updated as needed.

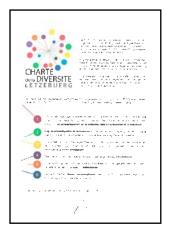
Work safety will continue to be ensured by the work safety officer using proven control and management tools.

Based on the experience of previous years, the management plan for training measures will be continued and further developed.

The internal training needs for the following year are determined towards the end of the current year in collaboration with the coordinators of each division. Topics include safety management: operating instructions (work safety and fire protection), ADR/hazardous goods transport, driving safety; brand management: EMAS, ISO 14001, ISO 14024, ESR label/sustainability; product management: product safety, processing for product receivers. Other topics include IT and information on ongoing projects.

For continuous quality control, an evaluation system for internal training was introduced in 2018. In addition, the topic of method training for interactive workshops has been developed.

In the case of new recruitments, attention is paid to equal opportunities and the adjustment of the gender quota in the various divisions. Equal opportunities and anti-discrimination have been taken into account in the specifications for recruitment interviews.



Luxembourg Diversity Charter



The Monitoring Committee visiting the "Clever Botzen" training room

Ebl







1. Stakeholders

Monitoring Committee logistics center

Neighbors, residents, Civil Security and representatives of the municipality are continuously informed about the activities of the **SuperDrecksKëscht®**, in particular at the Colmar-Berg logistics center, through the Monitoring Committee. The Monitoring Committee exists since 1996 and its members have access to it at all times.

In 2023, 3 meetings of the Monitoring Committee took place, during which current issues affecting the logistics center were presented and discussed, such as quantity balances, Commodo-Incommodo approval, incidents, EMAS/ISO 14001, logistics optimization and campaigns.

Organizations and associations

The SDK promotional items were made available to clubs and other non-profit organizations in the form of vouchers so that they could use them for raffles or other campaigns.

SDK promotional materials were made available to associations and other non-profit organizations in the form of vouchers for prize draws or other events.

Other non-governmental organizations (NGOs)

The **SuperDrecksKëscht®** supports and cooperates with various organizations and provides advice and assistance:

- → Joint projects with the Emweltberodung Lëtzebuerg, the organization of Luxembourg's environmental consultants ("ouni Pestiziden", information and training offers for municipalities).
- → Migrant organizations (ASTI, CLAE): information for migrants, Festival des Migrations, des Cultures et de la Citoyenneté.
- → Natur & ëmwelt: participation in various platforms ("sans Pesticides", environmental education platform).
- → Oekozenter Pafendall: collaboration in the project Green Events/sustainable events (see section G.7) and support of the oekotopten project.

2. Cooperations

Commercial and consumer associations

As already mentionned in section B.7, the **SuperDrecksKëscht®** works with a whole range of commercial associations and with the 'Union Luxembourgeoise des Consommateurs' (Luxembourg consumer protection association).

Social economy

The **SuperDrecksKëscht®** places some of its orders with participants in the social economy where disadvantaged people are employed. Examples are the compilation of bulk shipments by the Service de l'Entraide (CNDS) or the delivery of meals via ATP (Ateliers thérapeutiques) Schieren.

In collaboration with the Cactus supermarket chain and the Oeko-Center Hesperange, 2 disabled people, supported by the Ligue HMC, have been employed since 2015 in the Drive-in Recycling Center at Cactus Howald to receive and sort recyclable products. The training of the employees is held in the **SDK** center in Colmar-Berg.

3. Data security and whistleblower protection

The **SuperDrecksKëscht®** has established an internal structure and procedures in accordance with the General Data Protection Regulation (GDPR) to ensure data protection, especially for customers and partners. The **SDK**'s data protection declaration is publicly accessible on the Internet

The **SDK** has also set up reporting offices within the framework of the Whistleblower Protection Act.

4. Information, training and other awareness-raising measures

Information as well as awareness-raising and training activities are core actions of the **SuperDrecksKëscht®** and they are targeted at all groups of society.

Individual advice for consumers and businesses

In 2023, 30,755 customers and partners were advised by telephone and email and 32,486 topics were addressed; this included 6,599 general questions on waste management and 8,303 information on additional activities (see section G). Based on 250 working days, 130 questions were answered per day.

A digital portal (Infoportal at www.sdk.lu) is available for employees and partners who also provide consulting services. In addition to the latest brochures and flyers, the portal contains further information on product handling, collection systems and companies that have been awarded the label.

The documents in the Infoportal have been continuously updated, according to plan.

5. Media

The entire range of media is used to inform consumers about ecology, the handling of products from purchase to disposal, ways to avoid waste, and the **SuperDrecksKëscht®** quality label. Together with the Consumer Protection Association (UCL) a thematic plan has been drawn up for 2024, which defines monthly focus topics.

Brochures, flyers, posters

The checklist of information carriers, which includes brochures, flyers and other information carriers as well as the external media (magazines and journals, radio as well as the Internet), is continuously revised and updated.

The collection dates flyer, which is distributed to all households and informs about the dates of the mobile problematic product collection, also appeared twice in 2023.



Telephone consultation



Infographic railway sleepers



Flyer with collection dates



sdk.rtl.lu



SDK employee interviewed in radio



SDK Social media channels

It contained information on the ECOBOX and the Residences, Shop Green and Repair&Share projects. It also contained information about the services provided by the Luxembourg Consumer Protection Association ULC.

In external communication, it is recommended to use the pdf versions of information material available on the Internet in order to save paper.

Newspaper and magazines

In 2023, in addition to the publications in "de Konsument", regular articles continued to be published in the daily newspapers, the Portuguese-language newspaper "Contacto", and the French-language papers "Le Quotidien" and "l'Essentiel". Contributions have also appeared in other magazines and journals.

Radio

To promote the label-awarded companies, advertising spots were regularly broadcast on RTL radio and 2-3 minute spots with the **SuperDrecksKëscht®** were also broadcast once a week on RTL radio. In the section «RTL Ænnerwee» mat der **SDK**», more than 20 interviews on SDK topics (waste products, **SDK Akademie**,...) or at/with its partners were broadcast in 2023.

The main topics were also the monthly themes published in <code>de</code> Konsument, including information on the <code>SuperDrecksKëscht®</code> quality label. The contributions are available as mini-podcasts on the <code>sdk.rtl.lu</code> website.

Other regular programmes were broadcast on Radio Latina. The latter is primarily aimed at francophone and Portuguese-speaking listener groups.

Internet, social media and newsletter

The website www.sdk.lu (incl. www.shop-green.lu and www.ressourcenpotential.com) was completely redesigned and restructured in 2021. The product dictionary, which contains detailed information on the circular economy and prevention options, was expanded and further developed.

The social media presence launched at the end of 2019 has been further developed and is now well established. At the end of 2023, 1,347 people had subscribed to the Facebook page, 1,061 to the Instagram page, 184 to the YouTube channel and 664 to LinkedIn.

The **SDK** launched a newsletter in June 2023, which is primarily aimed at affiliated companies and organisations. By the end of 2023, 300 subscribers had signed up to the newsletter.

In 2021, the Environment Agency launched the national waste app, which allows citizens to find out about all the collection systems and dates in their community. Of course, the **SDK** is also represented here.

Exhibitions and presentations

The **SDK** was present at 20 exhibitions and information stands in 2023. These included the Schoulfoire, the Foire agricole Ettelbruck, the Science Festival and LuxDidac.

Information stands and information boards with product information on prevention and recycling are located in the resource centers.

Guided tours/exhibitions in the SDK center

In 2023, a total of 1,093 people visited the logistics center, some in groups and some individually. Visitors were given background information on the **SDK** through PowerPoint presentations and the permanent exhibition in the info center.

The presentation of the **SuperDrecksKëscht®** campaign and the "Shop Green" exhibition in the reception area of the info center as well as in the logistics center were continuously updated and used both during visits and training sessions.



The SDK Akademie is an overarching tool designed to raise awareness, provide information and qualifications within the 3 pillars of the **SuperDrecks-Këscht®** (**SDK fir Bierger**, **SDK fir Betriber** and **SDK** additional activities).

Target group: citizens

In addition to outreach through the media, direct information and awareness-raising was carried out using the above-mentioned tools of telephone consultations, exhibitions and visits.

33 exhibitions and lectures took place in 2023. 71 visits to the Colmar-Berg site took place in 2023.

21 awareness-raising activities for residents and 4 training sessions for carers were held as part of the project for refugee accommodation (in collaboration with ONA).

Target group: companies and institutions

The **SDK** enables companies to train their employees in the use of resources and hazardous products in terms of sustainability and safety, and our training partners include the CNFPC, House of Training, the Chambre des métiers, the INAP, the Académie de l'immobilier and the IFSB.

In the construction sector in particular, the SDK Akademie offers training courses in cooperation with the IFSB, the training institute for the construction sector,

The **SDK Akademie** works actively with the national training institute CNFPC to offer training courses such as the Agent de nettoyage course, the "Circular economy for local authorities" course and basic training for employees of resource centres and in waste and resource management.

At House of Training, the **SDK** offers a wide range of training opportunities, including those recognised by the state employment insurance system as part of the Travailleur désigné. In addition, the **SDK** cooperates with Horesca to offer training modules,

Since 2022, the Chamber of Skilled Trades and Crafts has published the trai-



Foire agricole Ettelbruck



Dag vun der Natur 2022



Guided tour of the logistics center



Clever entdecken



Training courses



Training courses



Training courses at the SDK info center



Information and collection point at the training and visitor center

ning courses of the **SDK Akademie** on its lifelong learning portal. The **SDK Akademie** has also been involved in the new development and implementation of the Chambre des Métiers' Brevets de maîtrise programme since 2022.

The INAP offers training specifically for the public sector, while a training module relating to the residences project was offered for the first time in 2023 in collaboration with the Académie de l'Immobilier. A total of 187 training courses were held here.

In addition, a first version of an online information module was developed and tested in some companies in 2023. The tool was tested in a total of 7 companies.

The **SDK** made its site available to CIS North for an emergency exercise in December 2023.

Target group: municipalities and resource centers

With regard to the target group of municipalities, there is an ongoing good dialogue with EBL and Klima-Agence (climate agency).

Further and advanced training for resource centre employees was carried out as planned. This includes **SDK** specialist training in which 15 RC employees were trained. A total of 37 training modules were organised for this target group.

Target group: schools and educational institutions

The aim of the training courses, which are organised in collaboration with IFEN (national training institution for teachers), is to educate teachers about the **SuperDrecksKëscht**® and the sustainable and safe use of resources. In 2023, 9 training courses were organised in collaboration with IFEN.

At the request of schools and Maison Relais, the **SDK Akademie** is represented in primary schools, secondary schools and Maison Relais as part of projects, lectures, theme days and activities. In 2023, the **SDK Akademie** organised 285 activities for primary schools, 118 activities for secondary schools and 47 activities for Maison Relais.

In the area of higher education (BTS, Diploma+), 21 activities took place.

There was good cooperation and regular dialogue with the Script (Service de Coordination de la Recherche et de l'Innovation pédagogiques et technologiques) in 2023.

7. Prospects

Stakeholders and cooperations

In 2024, the **SuperDrecksKëscht**® will continue its intensive collaboration with the Monitoring Committee and the municipality of Colmar-Berg. The support of associations and non-governmental organizations as well as the cooperation with trade and consumer associations will also be intensified in accordance with the missions and objectives of the **SuperDrecksKëscht**®.

Information and activities

The tools of public relations and consulting will take into account technological developments in electronic and digital media. Personal counseling will continue to be a high priority.

The thematic plan for print and electronic media for the year 2023 was again drawn up together with the consumer protection association. This includes the prevention and recycling of waste products, as well as projects such as reusable systems as part of the prevention of food waste. Other agreements have been made with the EBL (Emweltberodung Letzebuerg) and with HORESCA to provide advice to companies.

Magazines, weekly newspapers and the most important radio stations will continue to be used as public relations tools. An important medium is the member magazine of the consumer protection organisation ULC. With RTL Radio, local reports in particular are also planned for 2024 (RTL ,Ënnerwee mat der **SDK**').

The **SDK** will also be represented with information stands at exhibitions and events in 2024. Plans include a presence at the Foire Agricole Ettelbrück. As in previous years, the **SuperDrecksKëscht®** will provide information at a joint stand with the consumer protection organisation ULC.

As part of the animation concept, potential visitor groups will also be addressed in 2024 so that they can gain an insight into the logistics centre's capabilities. In addition to affiliated companies and partners/public institutions, groups and associations will also continue to be addressed.

SDK Akademie

The **SDK Akademie** will continue its collaboration with the aforementioned institutions in 2024. Partnerships are also being considered with the training institutes "Fokus (Arcus)" and "Centre de compétences génie technique/parachévement".

The use of digital media will also be further developed. A digital **SDK** learning platform will be developed in the course of 2024 and the principle of game-based learning will be increasingly emphasised.

A mobile classroom on the topic of the circular economy will be created for schools (primary schools) in 2024. Integrated into a small lorry, we will travel to schools with interactive and digital elements and teach pupils about resource conservation and the circular economy.



Visit of the Youth Parliament



Training courses 2023



F. THE CAMPAIGNS

1. The SDK fir Bierger (for citizens)

Volumes and suppliers

The total quantity of **SDK** fir **Bierger** recorded in 2023 was 2,934.9 tonnes. This corresponds to a slight increase of 0.8% compared to 2022. The population rose by approx. 2.4 % to 660,800 people in the same period. The recorded problematic product quantity per year and inhabitant therefore continued to fall and amounted to 4.44 kg.

The results of the national residual waste analysis carried out in 2021/2022 were available at the beginning of 2023 and showed a halving of the absolute quantities of problematic products still to be found in residual waste from 1.93 kg to 0.92 kg, compared with the 2018/2019 analysis. The reduction is therefore clearly attributable to waste prevention and demonstrates the success of the awareness-raising and information measures.

The number of people delivering to the mobile collection points totalled 56,219 in 2023, a slight decrease of 3.81%.

The results of the residual waste analysis have again be used as the basis for new product-specific campaigns for waste prevention and separate collection. The aim is to further reduce the volumes of residual waste.

Collection systems

Mobile collection: With its Service-Center, temporary collection points and door-to-door collections, the **SuperDrecksKëscht®** has a very flexible system in terms of time and location that meets the needs of citizens and is well appreciated.

⇒ Service center

The service center is a modern mobile reverse consumption vehicle. The collection costs as well as the number of vehicle movements, emissions from transports and fuel consumption per ton kilometer are at a good level.

→ Door-to-door collection

In 2023, modern vans were used for door-to-door collection. These meet the latest safety requirements and are equipped with SAPs, barrels and plastic pallet boxes so that the products can be sorted directly and the containers exchanged at the service center. As in previous years, door-to-door collections were carried out in around 2/3 of Luxembourg's municipalities.

■ Resource centers (permanent collection points/technical services)

In the municipalities of Wormeldange, Manternach and Mertert, mobile problematic product collections took place once a month, in parallel with the collection of valuable products by the technical service of the municipalities. In the municipalities of Mondorf-les-Bains, Echternach and Rosport/Mompach, the collection took place twice a month. The citizens of the municipalities Grevenmacher, Flaxweiler/Lenningen and Betzdorf have the possibility to hand in valuable and problematic products at the collection point of the landfill Buchholtz-Muertendall on 2 Saturdays per month.



The product range



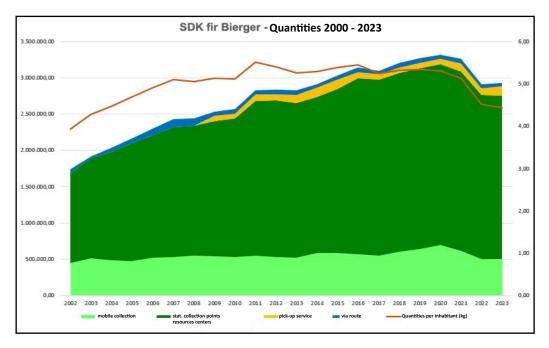
The Service-Center



The small van for the door-to-door collection

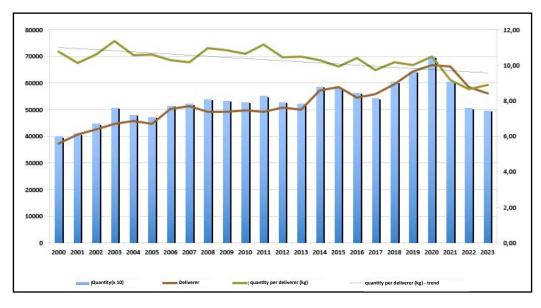


Collection point in resource center



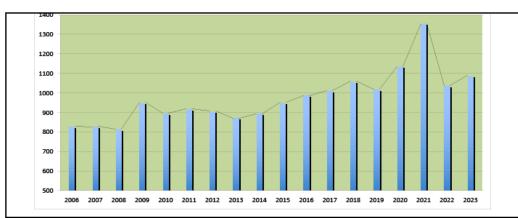
SuperDrecksKëscht® fir Bierger - Total volume and volume by collection system / volume per year and inhabitant (in kg)

2000 - 2023



SuperDrecksKëscht® fir Bierger - Total volume from mobile collection/ deliverer / volume per deliverer (in kg)

2000 - 2023



SuperDrecksKëscht® fir Bierger - Volume of refrigerators collected (in tons)

2006 - 2022

→ Recycling/resource centers (permanent collection points)

There are currently 19 stationary collection points in resource centres available to citizens. At 2,257.5 tonnes, the volume of problematic products collected remained at the previous year's level, an increase of 0.1%. The quality of the collection remains at a high level thanks to the qualified support and supervision.

→ Collection service

The collection service has gained further importance in the commercial sector (trade, Comptoir pharmaceutique for pharmacies) thanks to the joint product-specific campaigns. 180.7 tons were collected via the collection service and partners.

→ Mini collection points in retail

Collection boxes and collection points have been set up in various supermarkets and DIY stores together with **Ecotrel asbl** and **Ecobatterien asbl**.

Products

Of the more than 100 different products, a few are highlighted here.

■ Lighters

In 2023, 1,838.5 kg corresponding to around 150,000 gas lighters were collected. At plus 0.2 %, this is slightly more than in the previous year.

→ Medicines

In 2023, information materials were again distributed via pharmacies, general practitioners and veterinarians. Among other things, information was provided in an issue of the Luxembourg pharmacy customer magazine "Letz be healthy".

The quantity of medicines recorded rose again by 7.3% to 206.03 tonnes compared to the previous year. This is also an increase in the value per year and inhabitant to 312.16 g. Pharmacies collected 38.4 tonnes or 18.7 % of the total. The collection in pharmacies continues to be organised with the Syndicat des pharmaciens and CPL as partners. Despite a general decline in the proportion of problematic products in the residual waste analysis 2021/2022, relatively large quantities of medicines remain in residual waste.

The promotion of the separate collection of medicines and the disposal options via pharmacies, resource centers or the mobile collection of **Super-DrecksKëscht**® will be maintained at an intensive level.

→ Night storage heaters

The **SDK** continues to receive regular inquiries about night storage heaters. In 2023, 3 inquiries from citizens were processed.



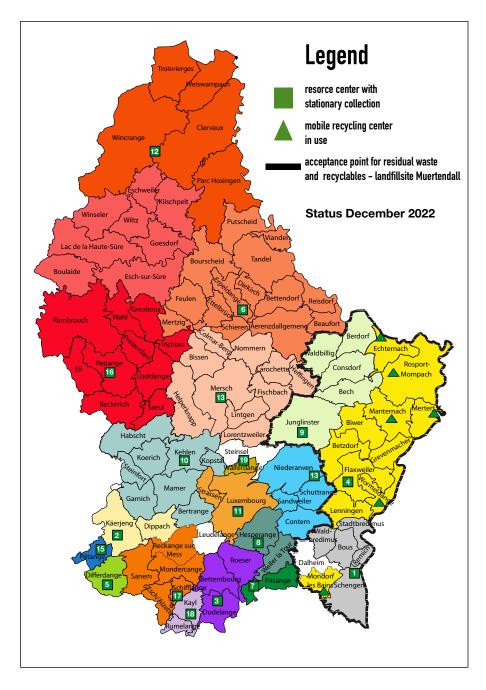
Collection points in Cactus supermarkets



Collection of medicines in pharmacies



advertisment



mobile resource centers

- Echternach (2x a month)
- Manternach
- Mertert
- Mondorf-les-Bains (2x a month)
- Rosport /Mompach (2x a month
- Wormeldange

collection points in resource centers

- 1 Bech-Kleinmacher, Recyclingcenter ,Am Haff'
- **2** Bascharage (Eco-Center), Zone d'activité R. Steichen
- 3 Bettembourg (STEP), Route de Dudelange, Tél. 52 28 34
- 4 Buchholz-Muertendall (SIGRE)
- 5 Differdange, Z.I. Gadderscheier

- **6** Fridhaff (SIDEC), Décharge Fridhaff, Erpeldange
- 7 Frisange, 30, Hoënerwee Hellange
- Hesperange (Oeko-Center),1, Rue NachtbannItzig
- 9 Junglinster, Beim Rossbour

- **10** Kehlen (SICA), Zone Industrielle Kehlen,
- **11** Luxembourg, Rue du Stade
- **12** Lentzweiler (SIDEC), Zone Industrielle
- **13** Mersch (SIDEC), Mierscherberg
- **14** Munsbach, Um Landtrausch

- **15** *Pétange, Rue de l'Industrie*
- **16** *Redange/Attert, Rue de Niederpallen*
- **17** Schifflange (SIVEC), Station d'Epuration
- **18** Tetange (STEP), Rue de la Fontaine
- **19** Walferdange 28 rue Mercatoris Helmsange

■ Gas cylinders and containers

In 2023, 56.0 tonnes were collected. This is 15% more than in the previous year and is almost at the same level as in 2021. The development of helium gas (balloon gas) continues to be striking. The volume rose again by 3.4 tonnes to 18.9 tonnes. The quantity of nitrous oxide gas (laughing gas) cartridges recorded in 2022 was still negligible at 93.5 kg and ,exploded' to 2.24 tonnes in 2023. This is apparently due to so-called ,nitrous oxide parties' at which the gas is consumed as a party drug. Public relations work on helium and nitrous oxide will therefore be further intensified.

At 29.2 tonnes, the volume of probutane gas cylinders (including camping gas) was on a par with the previous year (29.6 tonnes). CO_2 gas cylinders will also continue to come in, although volumes had been fallen in 2023. Reusable cylinders are apparently increasingly being used here. Despite existing deposit systems, the return options at the resource centres and the **SDK**'s mobile collection service continue to be heavily used.

Probutane gas cylinders go to the Luxembourg recycler PrestaCylinders, where they are reprocessed if possible. The recent resources potential certification for the reverse production of these cylinders at PrestaCylinders showed a raw material utilization of around 96%.

■ Mercury in private households

In 2023, 59.2 kg of products containing mercury were collected from households, 27.5 kg of which were mercury thermometers. In 2022, the figure was 90.6 kg. Although products containing mercury may no longer be sold for household use, there are still significant quantities of products containing mercury in households, although the quantity is decreasing significantly every year.

→ Kitchen fats and oils

In 2023, a total of 489.98 tonnes of kitchen fats and oils were collected via **SDK fir Bierger** and **SDK fir Betriber**, compared to 498.1 tonnes in 2022, a decrease of 1.6 %.

Of the quantities processed in 2023 - 476.7 tonnes - 81.49% were used for biodiesel production, 8.85% were used directly in **SDK**'s central heating and 9.66% went into substitute fuel production.

Trucks and commercial vehicles as well as some of the cars continue to use biodiesel. The central heating system at the site continues to be operated directly with used kitchen oil as far as possible. In 2023, this was a share of 82.2 % (see sections C.2 - Energy and C.6 - Mobility).

Since 2014, the German REDcert certification system has been used to optimize the use of kitchen oils and fats ecologically and economically. The system certifies sustainable biomass use as defined by the German Biomass Sustainability Reglementation and is now also recognized throughout Europe by the EU Commission. Within this framework, all product flows are precisely documented and processed separately according to origin (distinction between kitchen fats/oils of vegetable/animal origin; see also www.redcert.gorg).



Use of gas cylinders



Mercury thermometer



Collection bucket for kitchen fats and oils



REDCert - certification



Syringes and cannulas - the special container is sealed after use.



Toner cartridges



Dry batteries





Information sheet about the safety concept

⇒ Syringes and cannulas

The quantity of syringes and needles collected increased by 7.8 %. In 2023, 25.2 tonnes of syringes/cannulas were recorded, compared to 23.4 tonnes in the previous year (minus 2.1 %). 45,004 safety containers were delivered in 2023 (previous year: 42,275).

The majority of syringes and cannulas were delivered in special containers, only a small percentage were packed in other containers.

→ Toner and ink cartridges

Since 2020, toner cartridges and ink cartridges have been processed via the partner Return, which guarantees transparent product flows during refilling. In 2023, 33.3 tons of toner and ink cartridges were collected via **SDK fir Bierger**. This is 9.1% less than in 2022. 39.3 tons were collected in total, including **SDK fir Betriber**. In 2023, a significant proportion of these were also refilled or recycled.

The figures reflect the high prevalence of printers, including laser printers, in private households, but also the increasing digitization.

Dry batteries and high-energy batteries

Since 2010, **Ecobatterien asbl** has coordinated the national collection of batteries as part of the product responsibility of manufacturers and importers.

After a slight decline in the previous year, the quantity of dry batteries from private households recorded rose again slightly in 2023 to 101.8 tonnes compared to 98.9 tonnes in 2022 (plus 3.0%). There was a significant increase in high-energy batteries of 14.8% to 12.1 tonnes. At **SDK fir Betriber**, on the other hand, there was a decrease of 8.3% for dry batteries at 33.9 tonnes, while there was a slight increase of 6.3% to 17.4 tonnes for high-energy batteries. This is a total of 165.2 tonnes. In contrast, only 13.2 tonnes were found in the 2022 residual waste analysis. The collection rate is therefore very high.

Overall, the technical development, which is increasingly focussing on rechargeable batteries, is expected to result in a further decrease in the quantity of dry batteries collected. The per capita volume of dry batteries processed via the **SuperDrecksKëscht**® in 2023 was 250 g/inhabitant and year (2022: 252 g).

The collection logistics with the 30 I system container introduced in 2003 together with the retail trade (Chamber of Skilled Trades and Crafts, the Chamber of Commerce, as well as the Fédération des Artisans and the Confédération de commerce) has proven its worth.

In order to ensure sufficient safety with the increasing proportion of lithium batteries and accumulators (danger of strong heating/risk of fire in the event of short circuits), a new safety concept was introduced at the end of 2019 together with **Ecobatterien asbl**, which guarantees the separate handling of lithium accumulators. At the end of 2023, containers were placed at 298 locations in retail and public buildings.

The small 2-liter model continues to be popular, filling a gap between the big container and the mini collection boxes.

As part of the "Shop Green" campaign, rechargeable batteries and charging devices have been specially promoted since January 2007.

→ Railroad ties

Because of their weather resistance, discarded railroad ties were often used by private people in gardens, to support slopes, for enclosing flower beds, etc. However, these are usually treated with creosote, a tar oil. This biocide is classified as carcinogenic.

The **SDK** fir Bierger therefore began collecting railway ties from private households in mid-2017, thereby removing these environmentally hazardous contaminated sites from the environment. 120.7 tonnes were disposed of in 2023. This is a slight decrease of 0.6% on the previous year's level. It shows that relevant quantities of this contaminated waste are still in use.

→ Refrigerators and air conditioners

The **SuperDrecksKëscht**® is in charge of the national return system **Ecotrel asbl** for the collection and recycling of electrical/electronic waste (see section B.2).

In 2023, almost 1089.3 tonnes of refrigerators, air conditioners and dehumidifiers were recorded, with an average weight of 45 kg per appliance, corresponding to a quantity of 24,207 units. This represents an increase of 5.15 % compared to the previous year.

Commercial refrigerators and refrigerated counters, as well as air conditioning units and vending machines, were also recorded and sent to a RAL-certified product recipient for environmentally friendly treatment. In 2023, 3,717.5 kg of refrigerants were collected via the **SDK fir Betriber**, roughly the same amount as in the previous year.

The collection points in the resource centers are equipped with special containers in accordance with the quality criteria of RAL-GZ 728.

At the product receiver SEG-Umweltservice in Mettlach/Saar, steps 1 and 2 of the reverse production are carried out in a modern reverse production plant on an industrial scale and are therefore very efficient and cost-effective.

The reverse production of refrigerators is carried out according to the strict criteria of the RAL Quality Association. This includes both older refrigerators still containing CFCs and VOC refrigerators, as well as refrigerators containing other refrigerants such as ammonia. The environmentally friendly and climate-friendly treatment is carried out within the framework of the DIN EN ISO 50574 standard.

Through the recovery and subsequent environmentally sound destruction of ozone layer and climate-damaging substances, as well as the recycling of recovered metals and plastics into secondary raw materials, CO_2 is reduced during the reverse production of cooling appliances. This is recognized by the RAL- CO_2 OLprint calculation method.

Contacts with the municipalities and other customers were also intensively maintained in 2023, in coordination with **Ecotrel asbl**.



Railway ties in gardens





Reverse production of refrigerators and air conditioners



Even CFC-free refrigerators must be specially treated.



Certified climate protection through RAL-compliant reverse production of refrigerators



Label-awarded resource center in Pétange



Meeting with the managers of the resource centers

The **SuperDrecksKëscht**® informs the public about the prevention and recycling of various product groups in the area of climate-damaging and ozone-depleting products.

As a partner of the oekotopten campaign, the **SuperDrecksKëscht®** contributes to the promotion of energy-saving and climate-friendly refrigerators. As part of the partnership with Ecotrel asbl, the issue of refrigerators and climate protection was continuously communicated in public relations.

Advice and support for permanent collection points within the framework of the SDK fir Bierger

Resource centers were visited at least once per quarter. Contact with communities was maintained through visits and telephone calls.

As explained in section E.3, basic, refresher and advanced training was provided to resource center employees, depending on their level of knowledge.

In 2023, 14 resource centre employees and one SDK employee completed the SDK specialist training. Compared to the basic training for employees of the resource centres, the training provides further expertise on the safe handling of problem products.

Meetings with resource center managers were held twice, in May and November 2023, at the **SDK** logistics center in Colmar-Berg. Quality and safety management issues were discussed in these meetings.

In 2012, a system folder was created for resource center managers, containing primarily safety-related information (operating and work instructions, behavior in case of incidents, etc.). Since the beginning of 2014, this has been available online (RC portal) and is continuously revised/updated.

Resource centers also have a specific set of criteria for evaluating particularly ecological waste management. Currently, 11 resource centers are certified with the quality label (see map on page 50).

Prospects

The path taken to date will be consistently pursued and improved. Targeted campaigns will also take place in 2023 to increase collection rates.

Mobile collection: in 2023, the various collection systems - service center, temporary collection points and door-to-door collections - will continue to be offered in line with the needs of the municipalities.

The rate of products that are collected in system containers for quality and safety purposes, such as cooking oils and fats or syringes/cannulas, should be further increased.

Intensive support will continue to be provided in 2024 in order to safeguard the service as part of the quality label for resource centres. Resource centres with stationary collection points will be visited every 4 - 6 weeks, resource centres without stationary collection points every 3 months. The municipalities will also continue to receive intensive support.

The regular meetings and training will continue in 2023. In addition to the module on work safety/handling of problematic products, the focus will be on the reverse production of waste products and the resources potential.

2. Other activities of the SDK fir Bierger

Shop Green

The "Clever akafen" campaign was renamed "Shop Green" in 2022. The reason was the wish of the retail partners to emphasize more clearly that it is about promoting environmentally friendly products. The campaign was continued as planned in 2023. The nationwide campaign, which has received an award from the EU Commission, promotes environmentally friendly and low-waste products in stores with the slogan "Shop Green".

The number of participating stores remained constant at around 200. As in every year, updates/adjustments to the criteria and documents were made in 2023. Since the end of 2020, market analyses have been carried out to determine how high the share of "Shop Green" products is in the total number of products offered in the individual product categories and how good the level of information is among employees in the participating stores. Training sessions for retail employees were also conducted by the **SDK Akademie** in 2023. The analyses serve as a basis for further developing the project.

The following product groups are evaluated and promoted as part of the campaign:

- environmentally friendly paints, varnishes and glazes
- rechargeable batteries and chargers
- ecological detergents and cleaning agents for private and commercial use
- energy-saving and long-lasting lighting
- ecological school and office supplies
- Rinse-off products
- Hygienic papers

In 2023, the ,leave-on' product category was added to the personal care product group as a supplement to the rinse-off products and criteria were developed. The first leave-on products are to be advertised in 2024.

The products are generally assessed on the basis of questionnaires completed by the manufacturer, safety data and product information sheets and other information provided by the manufacturer. The criteria are continuously adapted individually to the respective product groups. The evaluation of detergents and cleaning agents, paints and varnishes and rinse-off products is carried out by the partner organization Energie- und Umweltagentur Niederösterreich/ Umweltberatung Wien.

Application recommendations for the individual product groups and information flyers complete the "Shop Green" awareness campaign.



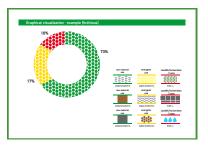


Labelling of ecological products









Sample diagram resources potential



Info flyer

In 2023, there was also a continuous exchange with the campaign partners, especially from the retail sector. The website www.shop-green.lu is constantly updated and offers a lot of information to the interested customer: a list of participating stores, criteria catalogues for individual product groups, lists of positively evaluated products, recommendations for use, information flyers, etc.

The permanent "Shop Green" exhibition at the SDK info center will be constantly updated.

The "Shop Green" campaign was also regularly covered in newspaper articles and publications such as ULC's "de Konsument"...

Resources potential

The "resources potential" concept - initially called "product potential" - developed in the first phase with the state research center (now LIST) allows the recycling or disposal processes (reverse production processes) at the waste receiver (product receiver) to be tested and evaluated in terms of resource efficiency. The testing process has been certified in accordance with the ISO 14024 standard since July 2015.

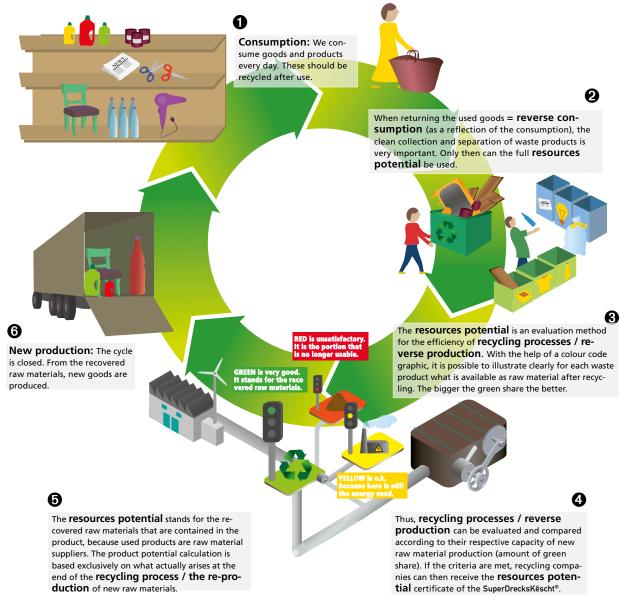
Unlike traditional recycling rates, this calculation method takes into account the performance of treatment facilities. This leads to the disclosure of all product flows and promotes the transparency of recycling and disposal processes. For data collection, the treatment facility must provide detailed information on the individual output fractions. When calculating the resources potential, a color distinction is made.

An important advantage of the calculation method of the **SuperDrecks-Këscht®** is that different treatment methods for an identical product can be compared without much effort, since only the output flows are taken into account for the representation by means of a pie chart. Thus, it is easy to identify the treatment plant with the highest raw material utilization, i.e. the one where material recycling is most important.

As at 31 December 2023, a total of 132 reverse production processes were certified at 48 partners of the **SuperDrecks-Këscht®** and other stakeholders. In addition, Peintures Robin SA, Käerzefabrik Peters and Geobloc SA are three certified Luxembourg producers of new products that use used products in the production of new goods.

Resources potential the innovative assessment tool in the circular economy





www.resources-potential.com











www.emwelt.lu

www.cdm.lu

www.cc.lu



Saving resources in residential buildings



Reduction and separate collection of waste

Join in!



Initiative

Contact your homeowners
' association or property
management (syndic)
because they are responsible
for the organization.



Free consultation

Individual analysis Concept development Information material Practice oriented Tel: (+352) 488 216 - 1 residenzen@sdk.lu

Goal:



Reducing residual waste

In general, the objective is to largely reduce the amount of residual waste by separate collection and valorisation of various end-of-life products.



Safety and cleanliness

Separate collection reduces both the quantity and the potential hazards of residual waste.



Recycling

Separate collection is what makes recycling possible in the first place, and therefore the reclamation of secondary raw materials.

Example of a waste room (Local poubelle)



Municipal waste disposal



VALORLUX (Packages)

- ▶ Plastic bottles and flacons
- Metal packaging
- ▶ Beverage cartons
- Plastic foils and bags
- ▶ Plastic pots, cups and bowls



VALORLUX THE CHANGE

In collaboration with:





SuperDrecksKëscht®

Collections on SDK fir Bierger,

Resource centre, door-to-door (4x/year), * Please dispose of dry batteries at public collection points or recycling centers

- Pharmaceuticals, spray cans, ink and toner, cooking oils and -fats, hazardous packaging
- ▶ Products contaminated by paint
- ► Fluorescent lamps, energy-saving lamps
- Small electrical appliances





Resource gateway

- at least 50% less residual waste, resources are conserved
- lower waste fees, simple operation
- billing according to polluter pays principle (pollueur payeur)
- individual billing per user, secure data transmission
- Solution for inside and outside of buildings





residenzen.sdk.lu

Ecological waste management in residential buildings

The findings from the residual waste analyses to date, as well as the results of the **SDK fir Betriber** analyses, show that very little recyclables have been collected to date, especially in residential buildings where several parties live and household waste is disposed of collectively.

The Luxembourg Waste Law of March 21, 2012, as amended on June 9, 2022, has set ambitious goals. One important goal is to increase the recycling rate of waste. Section 13(5) explicitly requires that waste products be collected separately in residential buildings with 4 units or more.

That is why the **SuperDrecksKëscht**® launched the project "Ecological Waste Management in Residential Buildings" in 2012. The aim was to improve waste sorting in residential buildings with the help of proven tools from the **SDK fir Betriber**.

The first residential buildings joined in 2013. As at 31 December 2023, a total of 93 property management companies with 6,005 residences, corresponding to 29,932 flats, were recorded in the **SDK** database. Of these, 739 residences were furnished. The number of labelled residential buildings increased from 26 in the previous year to 37 in 2023.

Municipalities have a great influence on waste management in residential buildings through municipal ordinances/permits and are also interested in introducing separate waste collection facilities within the framework of legal obligations. There is close cooperation with an increasing number of municipalities/associations in this area.

Since 2021, there has been a training programme for the application and implementation of the **SDK** residences concept as well as training modules for the safe handling of hazardous and problematic products that may arise during collection in residences. Property management representatives are increasingly being trained so that they can pass on their knowledge (trainthe-trainer concept). The training programme will be continued in 2024. The **SDK Akademie** app, which is currently being developed for playful learning / skills acquisition in the area of waste and resource management, will be made available to residents in particular.

Smart collectors have been on the market since 2016 as 1,100-liter residual waste containers and since 2017 as 240-liter residual waste containers. Smart collectors make it possible to track each user's residual waste by volume and thus charge only for the volume of residual waste generated, in accordance with the polluter pays principle.

Since 2018, the **SDK** has been developing a cost-effective smart collectors to supplement the range of smart collectors. In 2020, the development of 4 versions (for large MGBs up to 1100 litres and for small waste bins - 240 / 360 litres - as well as a wall-mounted version) was completed.



Information stand at the Chamber of Commerce



Label awarding of a residential building



Exhibition at the OekoCenter Hesperange



Collection point



Award with the SDK Label



3. The SDK fir Betriber

Product processing

The **SDK** fir **Betriber**'s task in the field of waste management is to dispose of small quantities and special products safely and under fair conditions, in addition to the collectors operating in the market. In 2023, more than 120 different product groups were collected and sent for proper recycling/disposal.

Advice and support

As at 31 December 2023, 5,612 facilities and businesses were affiliated. There were 277 new affiliations. After business closures and adjustments, this represents an increase of 96 businesses compared to the previous years figure of 5,516. The businesses and facilities continued to receive intensive support in 2023.

- 2,169 analyses and concepts drawn up
- 2,208 label checks carried out
- 277 businesses newly affilated
- 2.372 other business consulting sessions..

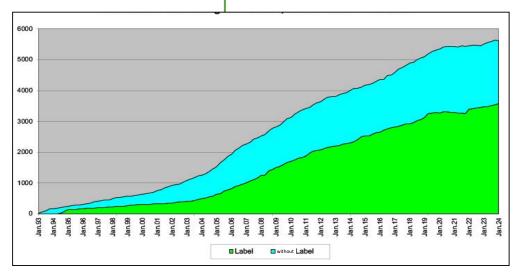
7,126 visits were made to facilities in total. This included 264 initial consultations and 32 training sessions. A total of 134,217 counselling visits have been carried out since the start of the campaign.

The number of employees in the affiliated organisations was 295,286 on 31 December 2023. In terms of numbers, the skilled trades are in the lead with 1,248 companies, followed by public companies, institutions and administrations with 834 companies and the service sector with 713 companies. In terms of employees, the skilled trades are also in the lead with 62,683 employees.

The number of contacts by e-mail or telephone is at the same level as in the previous year. Of 27,259 customer communications, 15,026 enquiries related to the **SDK fir Betriber**.

he number of label-awarded facilities amounted to 3,568 on 31 December

2023, an increase of 2.9 % compared to the previous year. The goal of further increasing the number of label-awarded companies/institutions has thus been achieved. The significance of the label



SDK fir Betriber - Development of partcipation and new label-awarded facilities

1993 - 2023

remains high in 2023 - due to the advertising campaign and the associated measures (certificates, diploma). The share of the number of affiliated facilities is 63.6 % (previous year 62.8 %).

Prospects

In the future, accompanying promotional measures will continue to provide an incentive for companies/institutions to join the **SDK fir Betriber** to improve waste management and obtain the quality label.

For 2024, it is planned to further inform consumers about the label and to encourage them to use the services of labeled companies and institutions.

The aim is to further increase the share of labeled companies in the number of member companies.

Cooperation with the MLQE (Mouvement Luxembourgeois pour la Qualité) and the INDR (Institut National pour le Developpement Durable et la Responsabilite Sociale des Entreprises) should further enhance the status of the quality label.

The certification of the quality label according to DIN EN ISO 14024 makes it possible to award facilities outside Luxembourg for ecological waste management.

4. Other activities of the SDK fir Betriber

Construction sector

The **SDK** fir **Betriber** is available to all companies working in the construction sector. Public and private clients have the opportunity to organize the waste management of their construction project according to the **SDK** fir **Betriber**-concept. Construction companies and craftsmen working on the site are advised according to the concept. 23 construction sites were part of it in 2023.

16 specific training courses for the construction sector were organised in 2023 by the **SDK** in cooperation with the construction sector training institute IFSB, with 269 people taking part.

Ongoing discussions with the above-mentioned stakeholders and others have also addressed prevention and reverse construction. In this sense, it is planned to further develop the use of building materials that facilitate later reverse construction.

The Luxembourg Sustainability Certification for Residential Buildings (LENOZ), developed in 2016 and implemented in 2017, also integrates the **SuperDrecks-Këscht®** concept.

The so-called LECO-Box (Lëtzebuerger ECO-Box) was developed in 2016 to enable extensive separate collection even at smaller construction sites. Other players in Luxembourg now offer a comparable collection container. The **SDK** has thus provided impetus in line with its mission and has decided not to build any more LECO boxes.



Use of the LECO-Box



Agriculture

2022, the consulting of farms was intensively pursued with the support of the Maschinenring (MBR), and the **SDK** participated again in the Foire agricole in Ettelbruck, together with the consumer protection association ULC.

As at 31 December 2023, 113 agricultural businesses were affiliated, as well as 15 winegrowing businesses, a significant increase compared to the previous year.

The collection of agricultural foils has been organized directly by the Ministry of Agriculture since 2022. The disposal of vineyard and fruit tree stakes treated with wood preservatives is now also coordinated by the Ministry of Agriculture. The **SDK** is still available to provide support and expertise in this area.

1. Circular Economy

In 2014, the Ministry of the Economy and the Ministry the of Environment, Climate and Sustainable Development, together with Lux-Innovation, commissioned a study on the circular economy entitled "Luxembourg - as a knowledge center and test area for the circular economy", the results of which were published at the beginning of 2015. The **SDK** plays an important role here with its activities.

The **SuperDrecksKëscht**® is specified as a key player in the national circular economy strategy, as well as, for example, in the national waste and resources plan. The mission of the **SDK** is, for example, to develop new instruments of the circular economy, such as the resources potential, Re-Use and recycling concepts for products that cannot be avoided (see section G.7 Re-Use).

In 2021, the **SDK** created the SDK Circular label, which identifies products made from used products. (see also G.4 and F.2 – Resources potential)

2. Clever lessen (ECOBOX)

The ECOBOX is a reusable container in two sizes (500 ml and 1000 ml) that allows to take food from restaurants, canteens, take-aways and other establishments that offer food to eat later in the office or at home. In addition, a reusable cutlery set is offered to avoid disposable cutlery.

The campaign to promote the reusable container, which allows you to take food from restaurants, canteens, take-aways and other establishments that offer food to eat later at the office or at home, started in June 2018 and has continued to develop very positively in 2023.

On 31.12.2023, 143 restaurants, 158 canteens/school canteens and 22 other institutions were affilated. 27,907 500 ml containers and 82,188 1000 ml containers - a total of over 110,000 - and 2,333 cutlery sets were in circulation by this date. The project is part of the Luxembourg government's strategy against food waste and single-use packaging and is being run under the auspices of the Ministry of the Environment, Climate and Biodiversity and the Environment Administration/Administration de l'environnement together with HORESCA. There are now other reusable containers on the Luxembourg market (e.g. Luloup, Mubowl) which are also being promoted by the **SDK**.

The **SuperDrecksKëscht**® organizes the operational implementation, i.e. the distribution and management of the containers, as well as the support of the participating companies and institutions and questions from individuals.

The ECOBOX is managed according to the requirements of the circular economy and the resources potential. Containers that are no longer usable are taken back by the **SDK** and returned to the manufacturer for the production of new secondary raw materials.





www.ecobox.lu



Food truck at the "Eat it" festival in 2018



EXPOGAST in 2022



Advice giving in a refugee accommodation









Participating in the Energy Days in Mondorf-les-Bains

3. Refugee accommodation

Following the sharp increase in the number of refugees in 2016, facilities for the reception of refugees have been expanded and modern concepts for the rapid integration of new citizens have been developed.

The **SuperDrecksKëscht®** is involved in information and awareness-raising courses, as well as in the separate collection of waste by setting up and supporting the infrastructures. In 2023, 40 refugee accommodations were accompanied.

4. Sustainable events - Green Events

In 2019, the Green Events project was launched, a project of the Ministry of the Environment in collaboration with the Oekozenter Pafendall and the SuperDrecksKëscht®.

The aim is to promote sustainable initiatives in the event sector and increase their visibility. Furthermore, the aim is to encourage and promote the conservation of natural resources (closed-loop concept) and to reduce CO_2 emissions. In the context of sustainable events, cooperation between communities and associations should also be supported. The target group is all types of events (festivals, musical, cultural and/or sports events) organized by associations, clubs, federations, municipalities, nature parks or ORTs (Office Régional du Tourisme).

In order to support event organizers who are committed to a sustainable approach, the Ministry of the Environment, Climate and Biodiversity awards the "Green Event" and "Mir engagéieren eis" logos to ecologically responsible events. The criteria for the logo are listed in the "Green Event" checklist. This serves as a guide and orientation for the organization of environmentally responsible events. To receive the "Green Event" logo, the event must meet all the mandatory criteria of the checklist. The "Mir engagéieren eis" logo can be obtained if at least half of the criteria (mandatory and optional) are met by the event.

In 2023, 160 events were awarded the "Green Event" label and 7 were awarded the "Mir Engagéieren eis" label. A total of 203 consultations on events took place in 2023, 73 of which were provided by the SDK and 130 by the Pafendall eco-center. This is a significant increase on the previous year.

5. Repair & Share

As early as 1999, a brochure was published together with the then Oeko-Fonds (now Oekozenter Pafendall) with companies and institutions offering repair ("Flécken") and rental ("Léinen") services. This project was revived in 2018 as an online platform. The overarching goal of the online platform is to extend the life of goods and reduce resource consumption through shared use, in the spirit of resource efficiency. In 2022, "Flécken a Léinen" was renamed "Repair & Share". The reason was to reach out to non-Luxembourgish speaking citizens.

In 2021, the project evolved. A concept was created to make the site more attractive to both businesses and consumers.

As of 31/12/2023, 122 companies offering repair services and 33 companies offering rental services were registered.

The partners are the Environment Agency, the Chamber of Skilled Trades and Crafts, the Chamber of Commerce, as well as Oekozenter Pafendall, Ecotrel asbl and INDR. The **SDK** is in close contact with other national actors such as Repair Cafés Lëtzebuerg.

7. Re-Use

The Re-Use project aims to develop the most valuable waste strategy after prevention, namely reuse.

In general, the **SuperDrecksKëscht**® supports projects such as Social Re-Use by Ecotrel as much as possible. In the last 2 years, several projects have been launched. In some cases, collection systems have been set up for products that have not yet been accepted, in other cases, ways are being sought to bring more products into reuse.

since 2019 – collection of used glasses

When collecting medicines, old glasses have also repeatedly found their way to the **SDK**. Since 2019, glasses have also been systematically collected in cooperation with the resource centers and Luxembourg opticians, and sent through the logistics center to "Brillen weltweit". "Brillen weltweit" is a non-profit organization that distributes used eyeglasses worldwide for humanitarian purposes after a professional quality control.

In 2023, around 257.3 kg corresponding to around 5,200 spectacles were collected. 454 kg from 2021 and 2022 were delivered to spectacles worldwide.

⇒ since 2019 - collection of used candles

As part of the collection of problematic waste products, candle remnants were repeatedly delivered to the SDK, and citizens asked what to do with used candles. In 2019, we therefore started to investigate with the Luxembourg-based candle factory Käerzefabrik Peters to what extent used candles could be reused. In 2020, after all licensing issues had been resolved, the collection of candles was advertised to the public and the first delivery was made to the Käerzefabrik Peters.

After the reuse of new products such as flares or fuel bowls was confirmed, 4.59 tons were already collected in 2019. In 2022 it was 8.41 tons, in 2023 it was 7.73 tons.

Since the fall of 2021, the Käerzefabrik Peters has been selling an outdoor candle made of used candles from the **SDK fir Bierger** collection and bears the SDK Circular label. Of the 8,585 kg delivered to the Käerzefabrik in 2022, 8,570 kg, i.e. 99.83%, could be used for production..









https://brillenweltweit.de



Collection of glasses with the partner ,Brillen weltweit'







RobinLoop



⇒ since 2021 - joint project with Peintures Robin to use old paint

As part of the partnership with Peintures Robin (joining the **SDK** fir **Betriber**, resources potential for the product Verdello), a pilot project was launched to reuse old paint from the **SDK** fir **Bierger** collection for the production of new paint. After tests and quality checks, the new product RobinLoop, which bears the SDK Circular label, was successfully launched on the market. This took place in the summer of 2021. 2.26 tons of suitable old paint went to Peintures Robin in 2022. However, due to a lack of demand for the product, no old paints were delivered to Peintures Robin in 2023. However, the project will be pursued further and promoted by Peintures Robin.

⇒ since 2022 – joint project with the Luxembourg Tennis Federation

Following a joint pilot project with the municipality of Schifflange, which started in 2018, tennis balls were collected in 2022 in collaboration with the Luxembourg Tennis Federation (FLT).

The process consisted of several stages: collection of the balls from the tennis clubs, shredding in a specialized facility in France, transport of the newly recovered material to Germany for further processing into waterproof flooring, reuse in sports halls or playgrounds.

At the end of 2023, 22 clubs were participating in the initiative. They each have a recycling box for used balls on their grounds, which is regularly collected by the **SuperDrecksKëscht®** The latter also takes care of transportation to the processing plant, where the balls are shredded and converted into recyclable rubber granulate.

In 2022, 570 kg, or more than half a tonne, of tennis balls were collected. In 2023, the quantity doubled to 1168.6 kg.

H. International presence and circular economy

Switzerland

In 2023, the **SuperDrecksKëscht®** Switzerland was further developed with the tools that had proved their worth in Luxembourg.

Mobile collections of problematic products continued on behalf of the regional waste association. A plastics collection was added in October 2016.

Other successful activities in Luxembourg are planned in Switzerland, including:

- Reverse consumption center at the Rheinfelden/Möhlin site
- Optimization of the collection of recyclables
- Animation activities and training courses

Sweden

SuperSopTunna is active in implementing the **SDK** concept in Sweden as part of the **SDK** franchise system.

Germany

The first reverse consumption logistics center in Germany based on the **SuperDrecksKëscht**® model, in the municipality of Mettlach in the Saarland, opened in January 2013 and continues to be appreciated in 2023. The number of deliveries was 16,700. The amount of recyclable and problematic products collected was 1,117.9 tons. The amount of residual waste is 120.9 kg per year per inhabitant. This is half of what it was in 2011, when a "classical" waste model was still in operation, with a volume-based residual waste collection without a reverse consumption center. The introduction of the reverse consumption center was also a financial success. The municipality and the citizens are satisfied.

A common portal for the **SuperDrecksKëscht**® Luxembourg, Switzerland, Sweden and Germany is online at the address **www.superdreckskescht. com**.



https://sdk.swiss



https://www.superst.se/en/



H. International presence and circular economy



Visit of a delegation of the EU Com-Commission - Directorate-General for the Environment in July 2018

2. The vision of circular economy

The strategy of the **SuperDrecksKëscht®**, within the framework of the national circular economy strategy described in B.1., further consists of contributing its know-how in order to build up Luxembourg as a resource-efficient location and best practice country together with its partners. This includes ecological and sustainable products and services with regard to climate protection.

A prerequisite for this is that Luxembourg's waste management, which is already at a very high level, is further developed towards a circular economy and reverse consumption.

The **SuperDrecksKëscht**® sees its role not only in the operational area, but also as a source of know-how. On the one hand, this know-how can be exported in the form of products and services. On the other hand, innovative producers and service providers should be attracted to Luxembourg.

In this way, Luxembourg can secure its position as a location and provide impetus for sustainable development in Europe and worldwide.

GLOSSARY - ABBREVIATIONS

1. Associations / federations / institutions

ATP Schierener Atelier - (center for disabled people)

ASTI Association de Soutien aux Travailleurs Immigrés (Association for the Support of Immigrant Workers)

CLAE Comité de liaison des associations issues de l'immigration (Liaison Committee for Associations of Immigrant Origin)

CNFPC Centre National de Formation Professionnelle Continue (National Center for lifelong learning)

CNDS Comite national de défense sociale (National Committee for Social Defense)

FLT Fédération Luxembourgeoise de Tennis (Luxembourg Tennis Federation)

FSC Forest Stewardship Council

HORESCA Fédération nat. des hôteliers, restaurateurs et cafetiers (Nat. Fed. of Hoteliers, Restaurateurs and café owners)

IFEN Institut de Formation de l'Éducation Nationale (National Education Training Institute)

INAP Institut National de l'Administration Publique (National Institute of Public Administration)

INDR Institut national pour le développement durable et la RSE (National Institute for Sustainable Development and CSR)

IFSB Institut de Formation Sectoriel du Bâtiment (Construction Sector Training Institute)

LIST Luxembourg Institute of Science and Technology

MBR Maschinenring - Agricultural association

MLQE Mouvement Luxembourgeois pour la Qualité et l'Excellence (Luxembourg Movement for Quality and Excellence)

ORT Office régional du tourisme (regional tourist office)

PEFC Programme for the Endorsement of Forest Certification Schemes

SDK SuperDrecksKëscht®

SICA Syndicat intercommunal pour l'Hygiène publique du Canton de Capellen (waste treatment association of municipalities)

SIDEC Syndicat intercommunal pour la gestion des déchets

(Cantons Diekirch, Mersch, Redange, Wiltz, Clervaux, Vianden as well as Beaufort)

(waste treatment association of municipalities)

SIGRE Syndicat intercommunal pour la gestion des déchets (région de Grevenmacher, Remich et Echternach)

(waste treatment association of municipalities)

SIVEC Syndicat Intercommunal à Vocation Ecologique (Intercommunal Syndicate for Ecological Activities)

(Esch-sur-Alzette, Mondercange, Reckange/Mess, Sanem, Schifflange)

SNJ Service National de la Jeunesse (national youth service)

STEP Syndicat Intercommunal (Bettembourg, Dudelange, Kayl, Roeser, Rumelange) (Intercommunal Syndicate)

ULC Union Luxembourgeoise des Consommateurs (consumer protection association of Luxembourg)

2. General abbreviations

ADR Internationale Beförderung gefährlicher Güter auf der Straße

(Agreement concerning the International Carriage of Dangerous Goods by Road)

CFC Chlorofluorocarbon

CSR Corporate Social Responsibility

EN European Norm kWh Kilowatt hour

LED Light-emitting diode

LENOZ Lëtzebuerger Nohaltegkeets-Zertifizéierung (for residential buildings)

PU Polyurethane

TOC Total Organic Carbon

VOC Volatile Organic Compounds
WEL Workplace Exposure Limit



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