

**Resources potential  
certification of  
demanufacturing  
facilities via the concept  
SuperDrecksKëscht® ac-  
cording to the  
standard DIN ISO 14024**

## More than an alternative to traditional recycling quotas

Demanufacturing facilities are traditionally evaluated based on recycling and recovery rates. This approach takes into account only the input flows in a recycling process, so recycling rates of > 90% are the rule rather than the exception.

As a result of this situation and the resource efficiency strategy of the European Union and its member states, the **SuperDrecksKëscht®** has developed **the concept of resources potential certification** that takes the idea of resource efficiency fully into account.

## Certified according to standard DIN EN ISO 14024

The concept of the resource potential certification of demanufacturing (recycling) facilities complies with the requirements of the standard DIN EN ISO 14024 and thus enables **a transparent, comprehensible, neutral and product-related assessment** of treatment, recovery and disposal facilities. The use of this resource indicator enables the demanufacturing facilities to show the effective amounts of recovered raw materials as well as the amount of energy used or usable and thus to visualize the resource potential for saving primary resources.

For the calculation within the resources potential certification both the input and the output streams are considered. The adjacent color coding is used in the output streams.

### CERTIFICATE

The resources potential certification of the  
**SuperDrecksKëscht®**

complies with the requirements of eco-labels and declarations in terms of the standard

**DIN EN ISO 14024**  
relating to the criteria about resources potential certification of demanufacturing plants

Date of first certification: 09.07.2018  
The certificate is valid until 21.07.2020

**Organism of certification**  
**SuperDrecksKëscht®**  
represented as per amended law of 20th March 2005 on the functioning and financing of the action of the "SuperDrecksKëscht" by  
**Oeko-Service Luxembourg S.A.**  
Zone Industrielle Piret  
L-7737 Colmar-Berg

**Monitoring organism**  
**proTerra Umweltschutz- und  
Managementberatung GmbH  
Umweltgutachter**

Am TÜV 1  
D-66280 Sulzbach

Sulzbach, the 27.08.2018  
  
Anton Backes (graduate engineer)  
Director of the monitoring organism

  
Alexandra Haindl (graduate biologist)  
Environmental auditor

Am TÜV 1 • 66280 Sulzbach • Telefon: (06897) 56 83 23 • [www.proterra-umwelt.de](http://www.proterra-umwelt.de)



## Graphical visualization - example (fictitious)

### Color coding

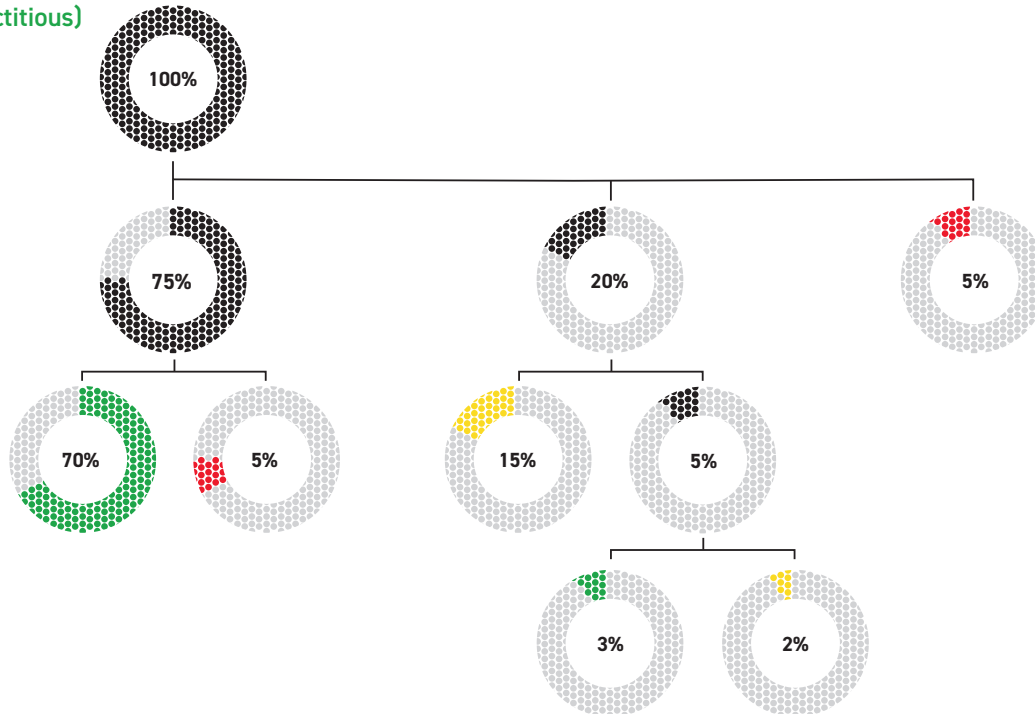
● input- and intermediate product

● Raw material use  
‣ preparation for reuse  
‣ material recycling

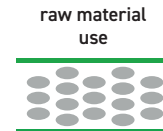
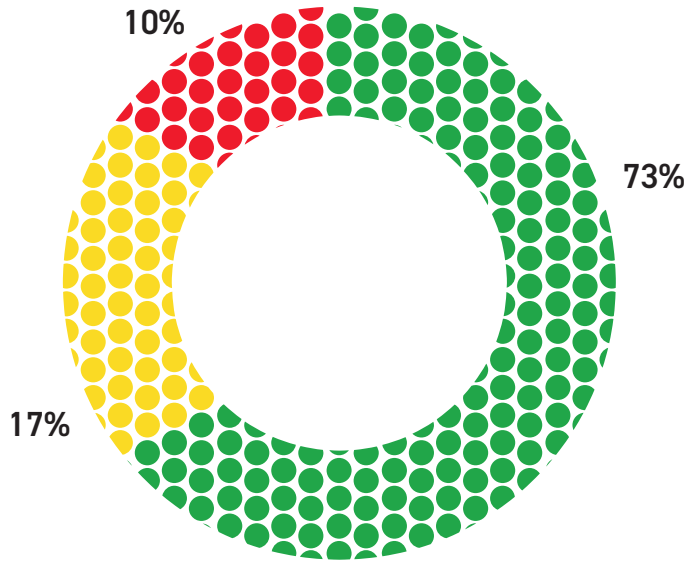
● Energetic use  
‣ production of a substitute fuel  
‣ energetic recovery

● Landfill/incineration/losses  
‣ landfill  
‣ incineration  
‣ losses

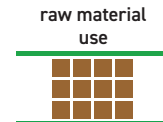
### Example (fictitious)



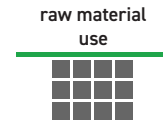
## Graphical visualization - example (fictitious)



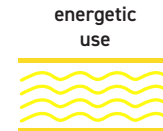
output product  $O_1$



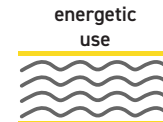
output product  $O_1$



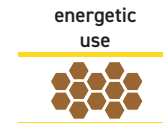
output product  $O_1$



output product  $O_3$



output product  $O_2$



output product  $O_2$

Landfill/incineration  
/ losts



losts  $L_1$

Landfill/incineration  
/ losts



losts  $L_1$

Landfill/incineration  
/ losts



losts  $L_1$


## Advantages of the resources potential certification for demanufacturing systems

- ➡ transparent, comprehensible, neutral and product-related review of demanufacturing facilities
- ➡ demonstration of the effective amounts of recovered raw materials and energy and visualisation of the saving of primary resources
- ➡ efficient calculation tool for the evaluation of different treatment processes of recycling/demanufacturing sites
- ➡ graphical visualisation of the final output products and their valence by color coding

SDK

RESSOURCEN  
INNOVATION  
KONZERT  
KREISLAUF  
ECONOMY

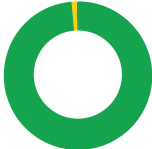
SuperDrecksKëscht®




### Ressourcenpotential-Zertifikat

Firmenname  
Adresse 1  
Adresse 2

Die Rückproduktionsanlage erfüllt die Ressourcenpotentialvorgabe der  
**SuperDrecksKëscht®** für das Produkt xxxxxx\* Produktname.



98,85 %	<b>Rawstoffnutzung:</b>
	• Vorbereitung zum Wiedereinsatz
	• stoffliche Verwertung
1,00 %	<b>Energiemutzung:</b>
	• Herstellung eines Ersatzbrennstoffes
	• energetische Verwertung
0,15 %	<b>Deponie/Verbrennung/Verluste:</b>
	• Deponierung
	• Verbrennung
	• Verluste



**RESSOURCEN  
POTENTIAL**

Datum der Wiederholungszertifizierung: xx.xx.20xx  
Datum der Erstzertifizierung: xx.xx.20xx

Das Zertifikat ist gültig bis xx.xx.20xx. Es entspricht den Anforderungen der DIN EN ISO 14024 und verliert automatisch seine Gültigkeit bei Nicht-Einhaltung gesetzlicher Vorgaben oder Genehmigungsauflagen.

Zertifikatsnummer: DEM-SDK/LU-xxxxxx-xx.20xx-00x

Dr. Klaus Schu

Frank Fellens

SuperDrecksKëscht® - Delco-Service Luxembourg S.A. - Zone Industrielle Piret - L-7737 Colmar-Berg -

+352 488 216 1 - [www.sdk.lu](http://www.sdk.lu) - [www.ressourcenpotential.com](http://www.ressourcenpotential.com)

## Affiliation and certification procedure

### Affiliation phase



Decision for affiliation by signing  
the basic agreement

### Preparation phase for the resources potential certification



Submission of documents  
by product recipient



(Initial) calculation of  
resources potential



On-site audit of the  
demanufacturing facility



Check of the statements and  
if necessary correction of the  
initial calculation



Reconfirmation of the  
statements and calculation  
results from product recipient

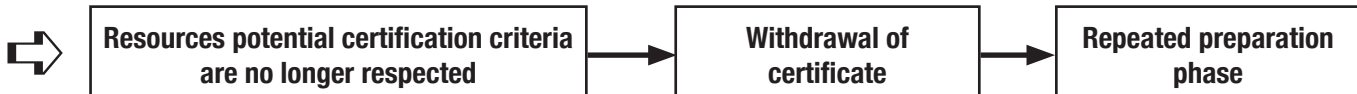
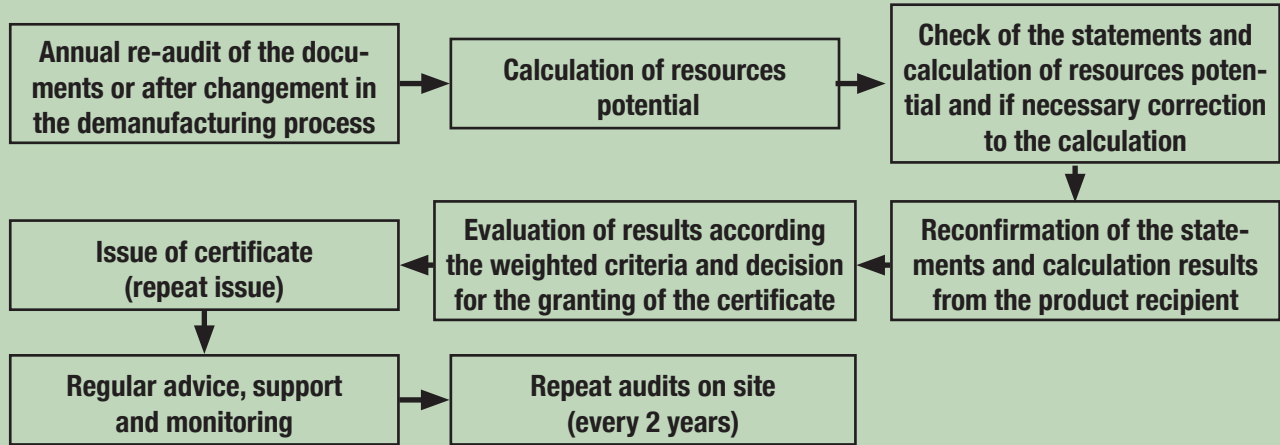


Evaluation of results according to  
the weighted criteria and decision  
for the granting of the certificate



Issue of certificate  
(first issue)

## Certified demanufacturing plant



### **Remark:**

- ➡ After consultation with the product recipient, the (initial) calculation of the resources potential may be done after the on-site audit (in the case of first issue).
- ➡ Concerning the repeat audits, a tolerance of 3 months is allowed.
- ➡ The criteria for the issue of the resources potential certificate are reviewed annually by the steering committee of the **SuperDrecksKëscht®** and if necessary updated.

Informations :

**www.resources-potential.com**

The **SuperDrecksKëscht**® in Luxembourg is an activity of the Ministry of the Environment, Climate and Sustainable Development in cooperation with the municipalities, the Chamber of Crafts and the Chamber of Commerce in the framework of national waste management.

**Resources - Innovation - Sustainability - Circular Economy** - these four values define the activities of the **SuperDrecksKëscht**®.

The **SDK**® is a brand that has been developed as part of the Luxembourg State's waste management tasks. It is based on the strategy prescribed by the EU commission. This places prevention first, followed by preparation for reuse, recycling and any other recovery (e.g. energy recovery) and finally waste disposal.



LE GOUVERNEMENT  
DU GRAND-DUCHÉ DE LUXEMBOURG  
Ministère de l'Environnement, du Climat  
et du Développement durable

Administration de l'environnement



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