

**Resources potential
certification of
demanufacturing
facilities via the concept
SuperDrecksKëscht®
according 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.



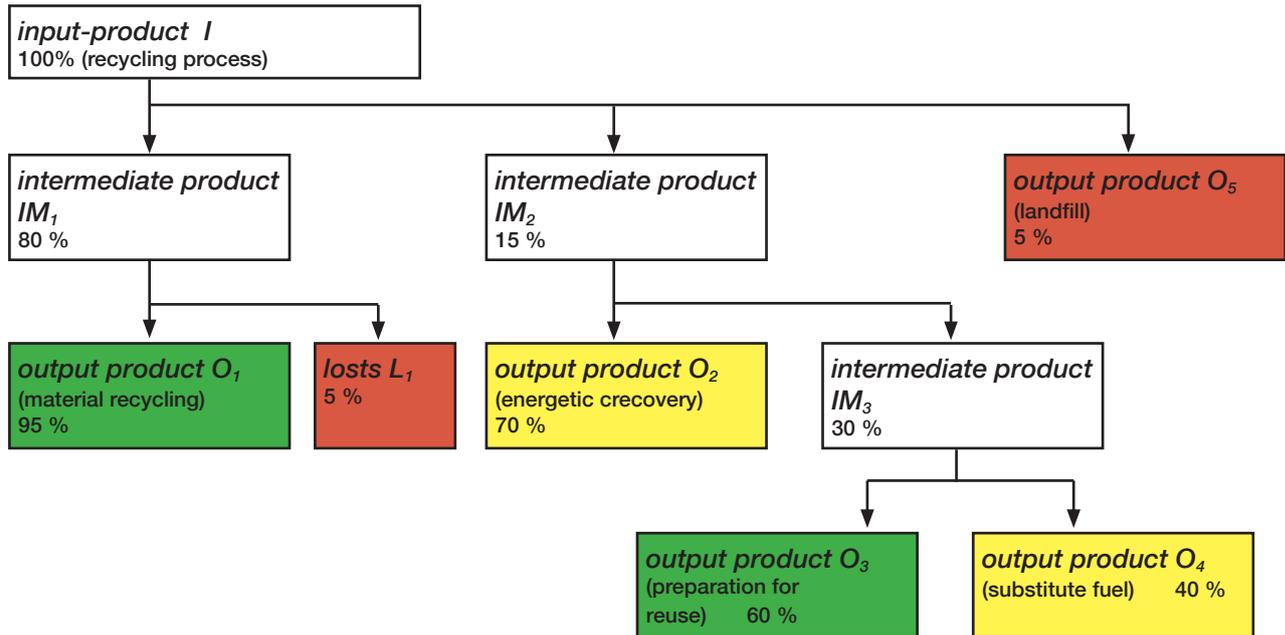
Color coding

● Raw material potential
→ preparation for reuse
→ material recycling

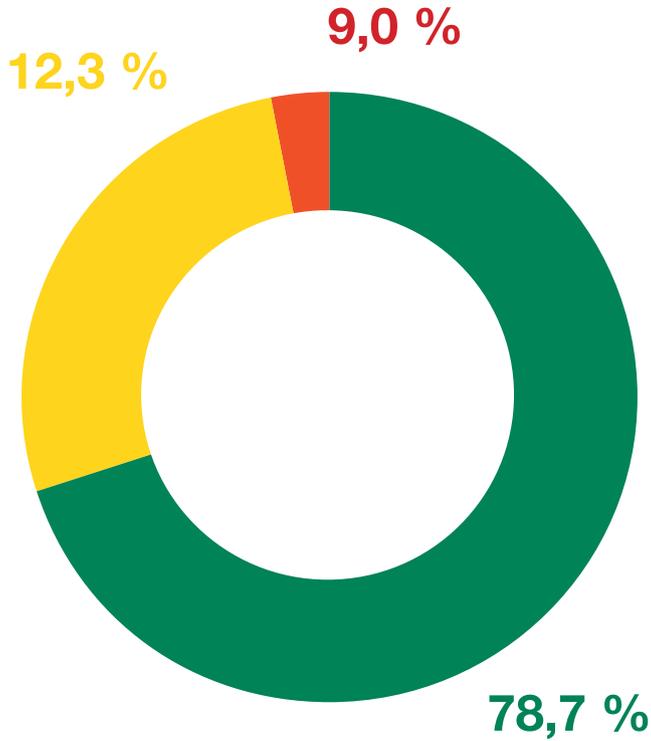
● Energetic potential
→ production of a substitute fuel
→ energetic recovery

● Elimination
→ landfill
→ incineration
→ losts

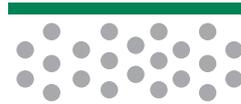
Example (fictitious)



Graphical visualization - example (fictitious)



raw material potential :



output product O₁



output product O₃

energetic potential



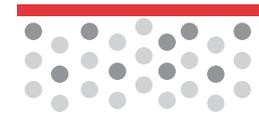
output product O₄

energetic potential

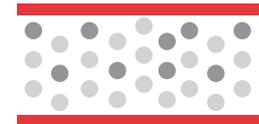


output product O₂

Elimination



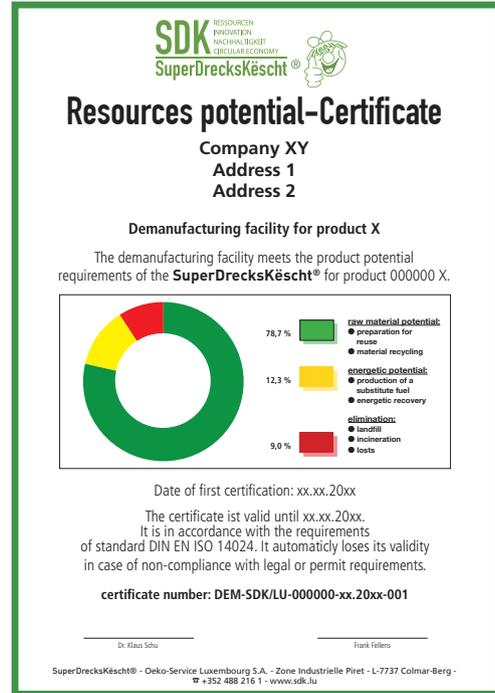
output product O₅



losts L₁

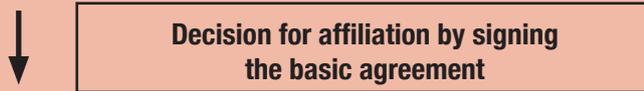
Advantages of the resources potential certification for demanufacturing systems

- ➔ 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

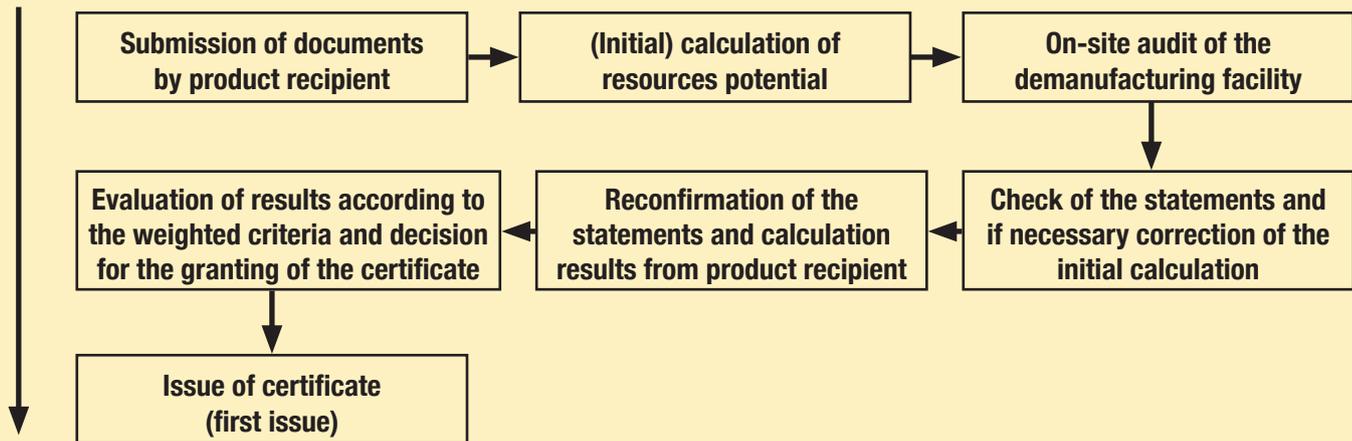


Affiliation and certification procedure

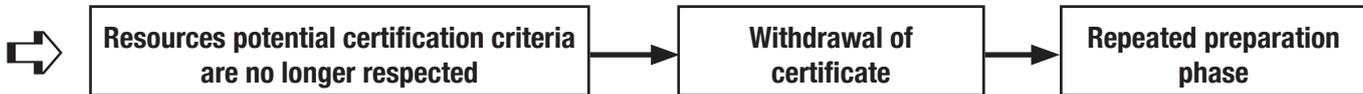
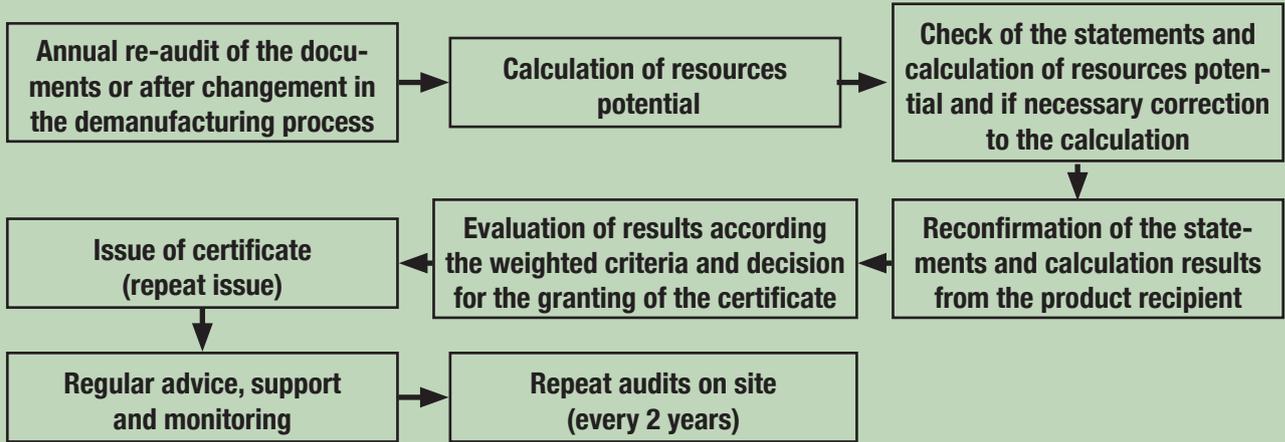
Affiliation phase



Preparation phase for the resources potential certification



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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