

Henry Kuper, RN CNRA

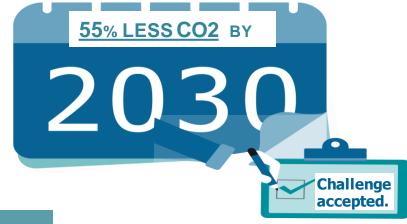
Business Development Manager

DE GROENE OK.

Invitational `Innovatie door Inspiratie`. Van der Valk Hotel Utrecht.

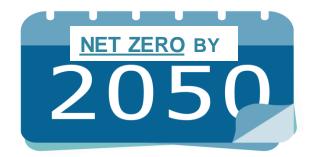






Contribution & Collaboration!

Green Deal Zorg 3.0 - Vergroen de zorg



Zorginstellingen en ziekenhuizen willen mensen gezond houden en beter maken. Dat vraagt ook om een schoon

● DE GROENE OK





Ministry of Health, Welfare and Sport

Regelgeving die beter aansluit bij medische ontwikkelingen

MDR Verordening (EU) 2017/745 medische hulpmiddelen

sinds 26 mei 2022

Deze EU-wetgeving regelt een verbeterde

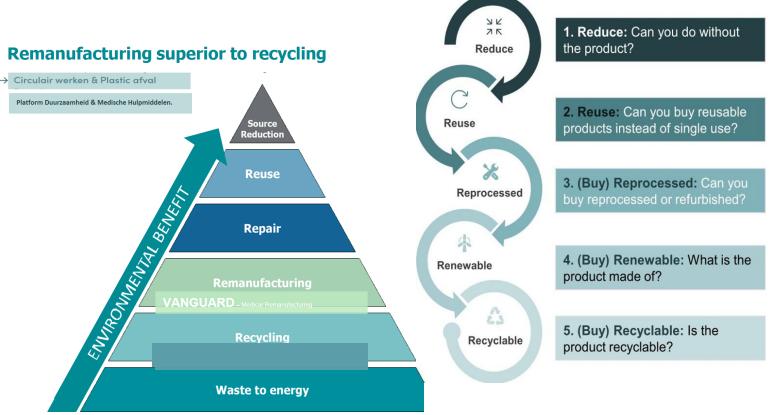
patiëntveiligheid en klinische veiligheid van hulpmiddelen. Ook sluit deze wetgeving beter aan bij technische innovaties en ontwikkelingen in de medische wetenschap.

Regulation aims to ensure the smooth functioning of the internal market as regards medical devices as a base a high level of protection of health for patients and users, and taking into account the small- and medium-sized enterprises high standards of quality and safety













Remanufacturing is an common-process in the USA, Canada, Israel, Japan.

- > 25 years Worldwide experience present & expanding with EU Law now allowing this too.
- > Fully regulated.

On 26-05-2021, EUROPE allowed Remanufacturing. Article 17 EU MDR 2017/745 in force!



OPT IN: Now Legal regulated in

UK

Netherlands

Belgium

Germany

Ireland

Croatia

Sweden

Spain







 Only CE-certified European Medical Remanufacturer. (Berlin)

• <u>+ 25 years</u>, Vanguard global medical remanufacturing sets a standard, empowering healthcare institutions operating more sustainable in a future-oriented manner.

 Vanguard belongs to the Santo Holding AG —healthcare group with 1,5 bn. € in equity and 500 m. sales — owned by Strüngmann. (founders of Hexal)







Medical remanufacturing:

enables hospitals to optimize the supply chain ecologically and economically <u>without</u> <u>compromising safety and quality!</u>

Sustainable



We extend the product life cycle of medical devices and enable a more sustainable future for the medical technology sector.

Breathing new life into single-use medical devices, we combat climate change and protect our planet's resources.

Safe



Using certified, state-of-the-art processes, we set the global standard in medical remanufacturing. We guarantee that our remanufactured products are restored to their original safety and effectiveness and fully comply with all EU regulatory requirements.

Economical



Through medical remanufacturing, the pursuit of sustainability pays off. There are no additional costs involved; in fact, medical remanufacturing can result in cost savings of up to 50 per cent.



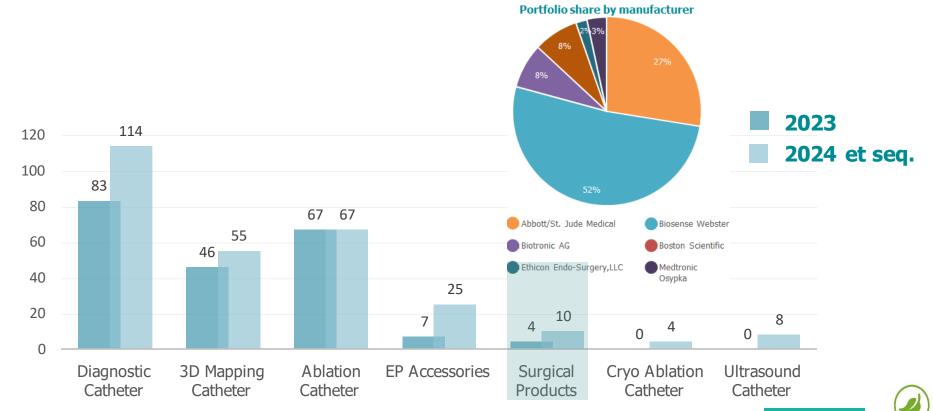


• DE GROENE OK.

Green Deal



CE Portfolio Development Plan Status 2023 vs. 2024 et seq.





What's the difference?













Cost effective 50% of the costof the original



Reduces carbon footprint, abiotic-resource use and medical waste





Vanguard





Our products are subjected to over 20 individual tests. These include:



Unique rinsing concept

Potential residue is flushed from the lumen using a specially-developed cleaning system. Cleaning media that flow through the lumen are subject to continuous volumetric monitoring.



Visual inspection

We inspect the device at up to 40x magnification, checking for any changes in its curvature shape or damage along the full length of the catheter from the electrical connection to the tip.



Mechanical function test

We test the performance of each component. In the case of force-sensing catheters, our processes ensure full functionality.



Vanguard Product Verification (VPV)

Testing of the entire electrical functionality such as insulation, continuity, capacitance and the temperature sensors by a specially developed testing system



Microbiological Testing

To confirm the effectiveness of the cleaning process, each catheter is checked for possible protein residues in our L2-hygiene Vanguard laboratory using the modified OPA method (in accordance with ISO 15883).









The circular economy must not stop at the gates of the healthcare system.





European

Challenge nr. I:

Notified Bodies availability development slows approval process & implementation remanufactured CE-certified products!

Brussels, 8 March 2023

General Secretariat of the Council From:

Council

Implementation of the Medical Device Regulations

- Information from the Commission
- Gaining momentum in designation of notified bodies

Continued implementation of actions to enhance notified body capacity and ensure availability of medical devices and in vitro diagnostics

How has Notified Body capacity been impacted by the MDR?

Before the enactment of the EU MDR, there were around 96 certified Notified Bodies who were able to perform conformity assessments under the Medical Device Directive MDD 93/42/EC.

What are FU MDR Notified Bodies?

EU MDR Notified Bodies are organisations who have been designated by the EU Member State to assess medical devices and associated technical documents for conformity with the requirements of the Medical Device Regulation (EU) 2017/745.

As of December 2022, current statistics show that there are 37 MDR certified Notified Bodies fully approved under the MDR.



Annex II Section 4. The design conforms to the requirements of this directive. For marketing of these products a additional Annex II excluding Section 4 certificate is required

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 2797

First Issued: 2019-10-17 Date: 2019-10-17





Challenge nr. II:

> Environment (regional) <u>transport regulation implementation differences</u> regarding identified to be remanufactured CE-products!



Afval Circulair

Kenniscentrum Circulaire Economie

Eural Handreiking EURAL

Augustus 2019

Deze handreiking is bedoeld voor degenen die zich van afval ontdoen, en daarnaast voor afvalinzamelaars en -verwerkers. De ontdoener van een afvalstof is verplicht om de juiste Euralcode voor het afval vast te stellen voordat hij zich van deze stof ontdoet.

Tot slot kan ook het bevoegd gezag bij handhaving en vergunningverlening deze handreiking gebruiken om de juistheid van een Euralcode te toetsen.

1-4

Wet milieubeheer, artikelen 10.37, 10.45 en 10.48.

wetten.nl - Regeling - Wet milieubeheer - BWBR0003245 (overheid.nl)

































→ Energie

→ Landelijke leidraad duurzaamheid







