

Reusable Medical Devices



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Spread and Scale Leadership day 10/2/2026



Reusable Medical Devices

Problem Statement

CTMUHB generates **>1000 tonnes** of waste which is both environment and financial costly to the NHS. Theatres are a high consumer of single items and waste. This is detrimental to the climate and public health now and for future generations.

Aim Statement

To sell 250 harmonic devices (to a remanufacturer) and to use 100 remanufactured devices in surgery by November 2026. 2.5-3x.

Achievements

Set up collection from Royal Glamorgan site >100 and used 50 remanufactured devices

Acting as an enabler to support this uptake:-

Spread to Prince Charles site

Supported ABUHB to under take procedure with device

C&V in discussion to arrange collection

SBUHB in discussion

Enablers

Made to stick → Success

Simple, Unexpected, concrete, credible, emotional, story.

Vanguard Remanufacturing Medical - CTMUHB

Selling of device - All Wales - 2500 devices purchased in last 12 months (data from QLIK sense, OCT 2025)

Number of	Generated income	Extrapolated over 5 years
If only CTMUHB sells used items (400)	£2,000	£10,000
If 50% of items used in Wales are sold (1,250)	£6,250	£31,250
Every devices used in Wales is sold (2,500)	£12,500	£62,500

The collection of devices should become standard.

As well as waste diversion for each HB and reduction in CO₂

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Number of	Saving KgCO ₂	Extrapolated over 5 years
If only CTMUHB sells used items (400)	696 KgCO ₂	3480 KgCO ₂
If 50% of items used in Wales are sold (1,250)	2175 KgCO ₂	10875 KgCO ₂
Every devices used in Wales is sold (2,500)	4350 KgCO ₂	21750 KgCO ₂

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Vanguard Remanufacturing Medical - CTMUHB

Transitioning to remanufactured from new devices

Number of remanufactured devices used	Cost to deliver service*	Savings year on year	Over 5 years
0% remanufactured used (2,500)	£1,125,000	£0	£0
If 25% are remanufactured (625)	£987,500	£137,500	£687,500
If 50% are remanufactured (1,250)	£850,000	£275,000	£1,375,000

*Based on £450 purchase of new Ethicon harmonic device and £230 cost of remanufactured device. Costs will vary due to volume and type and subject to change (Nov, CTMUHB 2025)

Barriers

Procurement – Process of obtaining HB’s financial details to arrange selling of devices

Surgical buy in – Getting staff engaged, trained and compliant with cleaning process.

Ensuring patient safety and quality is maintained. Risk aversion.

Responsibility and warranty if failure?

Change of theatre infrastructure and specialty causing disruption within pilot site

Representative of company workload/time management

Project teams own time restraints

Moving away from historical practice

What we need to progress

Communication

Showcase the pilot at CTMUHB and highlight the good practice
Speak to other HBs and Green Groups **to raise awareness**

Resources

Support and provide information for other sites to replicate

Governance

Allow simple agreement to ensure roll out is not delayed
For item to be added to All Wales framework to promote and ease point of purchase
Nationally agreed SOP
Support from the Approach to healthcare group

Thank you for listening, any questions?