

J&J MedTech Energy Capital Recycling Program

Summary Slide

In today's technologically advanced surgical field, the health sector has made great strides in providing cutting edge solutions to patient needs. Many of these solutions have been made possible by the development and implementation of electronic surgical equipment. It is the responsibility of medical device providers to provide good stewardship in not only the development and use of these innovative devices but also in the overall product life cycle. For these reasons it is important to focus in on device end of life disposition to ensure resources are efficiently used and thoughtfully conserved in the manufacture and recycling process.

- The ETHICON™ GEN11 Generator by Johnson & Johnson MedTech is a medical device that powers instruments used in minimally invasive surgical procedures
- Manufactured with valuable components including Magnesium, Aluminum, Plastic & Steel and an electrical main board
- 70,000 GEN11 generators have been sold since launch, this illustrates a significant amount of recycling potential of valuable material in addition to that contained in competitor instruments as well.

Healthcare recycling has not been scaled due to challenges in the collecting, sorting, and reprocessing of products and packaging used in healthcare settings.

The objective is to reduce medical waste to landfills and incineration and better utilize components for future circular manufacture and reuse

While J&J has deployed the Energy Generator Recycling Program on a small scale, the fleet of soon to be retired GEN11 product presents the ideal opportunity to scale operations and increase materials available for use by other members of the recycling value chain

As end consumers, rural community hospitals often do not have the resources or information to coordinate recycling efforts and consolidate critical materials for recovery. By developing a program for easy implementation these underserved communities will be better equipped to participate in recycling efforts augmenting the overall benefits of sustainability efforts nationwide.

- J&J is uniquely positioned to solve this challenge with its critical information about the component makeup of electrosurgical generators and knowledge of when these generators are ready to be retired at end of life. By offering a pre-packaged solution and facilitating the work, J&J can quickly bring these community hospitals into the recycling value chain with minimal impact to their current processes. In addition, a discreet well implemented process has the propensity to be transferable to other medical device products as well as other producers in the medical device community greatly increasing the environmental impact.

The goals of the Ethicon GEN11 Recycling Program are to:

- Recycle 80% of generators traded-in to J&J MedTech in the US within 24 months of receipt
- Track and report on the value chain of GEN11 materials once sent to the recycler
- All hospitals considering purchase of new electrosurgical generator equipment through Ethicon are made aware of recycling opportunities via a trade-in opportunity