

Environmental Sustainability



Delivering value for hospitals while reducing environmental impact

“Since our inception, Intuitive has focused on helping to improve human health and healthcare, both through our innovations in outcomes-focused minimally invasive care and by our actions as a global business. We are pursuing actions to address climate change. We see opportunities towards decarbonization with a focus on operational efficiency, lower carbon intensity procurement choices, and supply chain resiliency.”

Gary Guthart, CEO

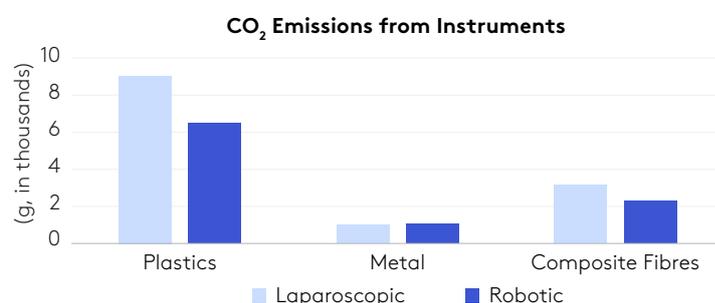
Intuitive, maker of the da Vinci surgical system, is a global leader in minimally invasive care and the pioneer of robotic-assisted surgery. By uniting advanced systems, progressive learning, and value-enhancing services, we help physicians and their teams optimize care delivery to support the best outcomes possible.

Pursuing better outcomes for your patients and the environment

- Studies across multiple procedure categories have shown procedures performed on da Vinci systems result in fewer conversions and blood transfusions, shorter hospital stays, lower postop complication and 30-day mortality rates, comparable 30-day readmission rate, and longer operative times compared with laparoscopic and open surgery.¹
- A recent study found a 26% reduction in CO₂ emissions per procedure due to shorter hospital stays when radical prostatectomy surgery is performed with the da Vinci compared to a 3D laparoscopic approach.²

Supporting sustainability efforts in your OR

- Our global Extended Use Program has extended the number of uses for many da Vinci X and Xi instruments to 18 procedures, reducing overall medical instrument waste and helping lower average instrument cost per case by 24%.³
- We support customers’ product disposals by removing systems where applicable and buying back unused instruments when they are upgraded.
- A recent study found a 27% reduction in CO₂ emissions per procedure due to the use of more reusable surgical supplies from the production, disposal, and sterilization of instruments when a radical prostatectomy is performed with the da Vinci compared to a laparoscopic approach.²



For more information scan the QR code below to download the 2022 Intuitive Environmental, Social Responsibility, and Governance (ESG) Report.



* An accepted international framework for environmental management. Three of our sites have ISO 14001:2015-certified management systems.

1. Results are based on an internal meta-analysis of peer-reviewed literature for robotic-assisted procedures (right colectomy, LAR/TME, prostatectomy, partial nephrectomy, lobectomy, and hysterectomy for endometrial and cervical cancer) published between 2010 and 2020. The summary of the clinical results are reflective of a pooled analysis of seven systematic literature reviews, presented by outcome across different surgical procedures. Data on file at Intuitive.
2. Fuschi A, Pastore AL, Al Salhi Y, et al. The impact of radical prostatectomy on global climate: a prospective multicentre study comparing laparoscopic versus robotic surgery [published online ahead of print, 2023 Apr 21]. *Prostate Cancer Prostatic Dis.* 2023;10.1038/s41391-023-00672-4. doi:10.1038/s41391-023-00672-4. Intuitive calculated the percent change in CO₂ emissions by dividing the difference in CO₂ emissions between laparoscopic and robotic procedures by the CO₂ emissions of laparoscopic procedures alone using data from this article. See the article's Results section for the data on hospital room stay (summer and winter) and production, disposal, and sterilization of instruments.
3. Intuitive internal analysis. Data on file.
4. As of February 18, 2023
5. As of April 2022

Reducing your environmental footprint outside the OR

- Minimize travel-related CO₂ emissions with:
Extensive virtual training programs and over 80 local training centers distributed globally.⁴
Remote service capabilities to help troubleshoot and solve more than half of call issues remotely without an on-site visit or, when necessary, in a single visit.⁵
- In 2022, ~38% of da Vinci training worldwide used Advanced Tissue Models, which use animal waste that would otherwise be discarded and don't require controlled substances.³

Collaborating with you for a sustainable future

- We completed third-party assurance of our carbon emissions sources in 2023, including Scope 1 (direct emissions), Scope 2 (indirect emissions from purchased energy), and Scope 3 (indirect emissions from all other sources in our value chain), and are actively exploring opportunities to reduce our carbon footprint over the long term.
- We ensure that our operations meet the ISO 14001:2015 standard.* We're also working with our suppliers to adopt this approach.
- 99.9% of our proprietary (product-related) waste was recycled in North America in 2022, resulting in 1,092 metric tons of CO₂ avoided.³
- We use collapsible, reusable shipping containers and reusable corrugated totes that protect instruments during shipment.

Product Information

Da Vinci X & Xi Surgical Systems

The Intuitive Surgical Endoscopic Instrument Control Systems (da Vinci X and da Vinci Xi Surgical Systems) are intended to assist in the accurate control of Intuitive Surgical Endoscopic Instruments during urologic surgical procedures, general laparoscopic surgical procedures, gynecologic laparoscopic surgical procedures, general thoracoscopic surgical procedures, and trans-oral otolaryngology surgical procedures restricted to benign tumors and malignant tumors classified as T1 and T2, and for benign base of tongue resection procedures. The systems are indicated for adult and pediatric use (except for trans-oral otolaryngology surgical procedures). They are intended to be used by trained physicians in an operating room environment.

The da Vinci X and da Vinci Xi Surgical Systems are class IIb medical devices CE marked (CE 2460) under the European Medical Devices Directive (93/42/EEC), manufactured by Intuitive Surgical, Inc. Refer to Instructions For Use before use.

Legal Notices

Training provided by Intuitive is limited to the use of Intuitive technology, instruments and accessories. It does not replace the necessary medical training and experience required to perform surgical procedures. Intuitive technology should only be used by physicians and staff who have received specific training in the use of Intuitive technology.

Individuals' outcomes may depend on a number of factors, including but not limited to patient characteristics, disease characteristics and/or physician/surgeon experience.

Some products, features or technologies may not be available in all countries. Please contact your local Intuitive representative for product availability in your region. Refer to the product specific User Manual for indications, contraindications, warnings and other product information.

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