

Join our mission to achieve Net-Zero Emissions

About Us

Blue-Zone Technologies Ltd. is the world's first Cleantech Pharma company.

We collect unused anesthetics that would normally be vented into the environment and process the collected material into its pure form providing a sustainable and cost-efficient source of inhalation anesthetic drugs*.

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We are focused on our vision to make a significant contribution to the health and well-being of the communities surrounding Blue-Zone certified healthcare facilities worldwide.

*Pending regulatory approval

Together, we can

green the world

Get in Touch

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Sustainable ANESTHESIA RECOVERY



Become part of the solution to reduce hazardous environmental waste and lower financial costs



Our planet won't wait.

Neither we will.



Blue-Zone Technologies

SUSTAINABLE ANESTHESIA RECOVERY

WHY BLUE-ZONE MATTERS

Over 60,000 Operating Rooms in North America¹



Each Operating room uses on average 20 L of Anesthetic per year²

Less than 5% of the anesthetics used are consumed by the patient³



The un-used anesthetic is typically removed from the Operating Room and vented into the environment³

Waste Anesthetic Gases (WAG) have a Global Warming Potential 1000 times more potent than CO₂⁴



WAG has an annual Global Warming Potential of over 600,000 Metric Tons of eCO₂⁴ in the North American



30 Million Trees would have to be planted annually to offset the North American WAG⁵

WAGs are considered a long-term health hazard and treated as an Occupational Health risk.⁷



WAGs are five times heavier than air, settle near ground level, and may adversely impact human health in neighbourhoods near healthcare facilities¹¹.



Conventional anesthetic manufacturing processes can contribute up to an additional 50% to the carbon footprint⁸ of WAG from hospital sources.

Blue-Zone's Patented **Deltasorb®** and **Centralsorb®** technology captures 100% of the WAG before it is vented to the environment⁹

The WAG contained in the Deltasorb® and Centralsorb® canisters are desorbed in our manufacturing facility and the regenerated canisters are returned to the hospital.

The raw material from our desorption process is then used in our patented distillation process.

The outcome is pure, branded generic, inhalation anesthetic produced by isolation.

Sustainable and green manufacturing process¹⁰.

HOW IT WORKS



Deltane™ Desflurane* Deltane™ Sevoflurane* Deltane™ Isoflurane*

¹2016, iDataResearch

²Blue-Zone internal Research

³AIHA.ORG, White Paper, Vestion 1, October 28, 2021

⁴Can J Anesth. <https://doi.org/10.1007/s12630-019-01385-w>

⁵<https://www.encon.be/en/calculation-co2-offsetting-trees>

⁶<https://www.ameriresearch.com/inhalation-anesthesia-market/>

⁷Turk J Anaesthesiol Reanim. 2021 Apr; 49(2): 93–99.

⁸<https://doi.org/10.1016/j.resconrec.2021.105411>

⁹A "Greener" Anesthesia Through Capturing of Volatile Anesthetics Lauren Della Mora; Claude Laflamme, MD, FRCPC, MHSc; George Davis, RTTech; Elihu Henry, AA/RT Sunnybrook Research Institute, Toronto, Ontario

¹⁰Blue-Zone's environmental footprint of capturing/processing/transportation of 1 L of anesthetic is approximately 0.024 tonnes of eCO₂

¹¹W. Habre, T. Asztalos, P. D. Sly, F. Petak, Viscosity and density of common anaesthetic gases: implications for flow measurements, BJA: British Journal of Anaesthesia, Volume 87, Issue 4, 1 October 2001, Pages 602–607, <https://doi.org/10.1093/bja/87.4.602>

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JOIN US

Help us green the world

GET CERTIFIED

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