

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.

Together, we can

green the world

SUSTAINABLE ANESTHESIA RECOVERY

Every Strategy Available To Reduce Greenhouse Gas Emissions Counts



Our planet won't wait.

Neither will we.

Get in Touch

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Blue-Zone Technologies

SUSTAINABLE ANESTHESIA RECOVERY



WHY

BLUE-ZONE MATTERS

Over 60,000 Operating Rooms in North America.¹



Each Operating Room uses on average 20 L of Anesthetic per year.²

Less than 5% of the anesthetics used are consumed by the patient.³



The un-used anesthetics are typically removed from the Operating Room and vented into the environment.³

Waste Anesthetic Gasses (WAGs) have a Global Warming Potential 1000's of times more potent than CO₂.⁴



WAGs have an annual Global Warming Potential of over 600,000 Metric Tons of eCO₂ in North America.⁴



30 Million Trees would have to be planted annually to offset the North American WAG.⁵

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

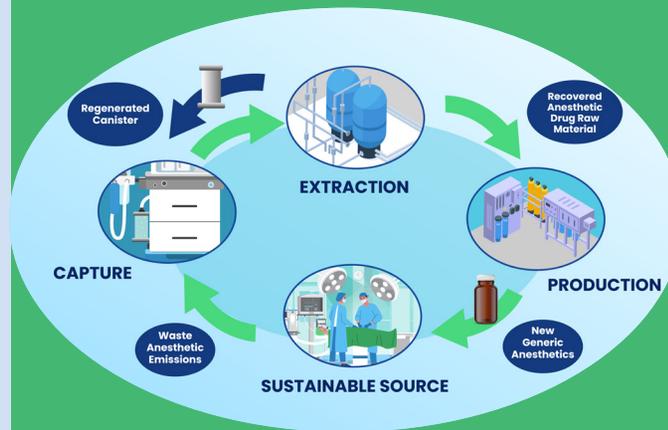


WAGs are up to seven times heavier than air, linger near ground level, and may adversely impact human health in neighbourhoods near healthcare facilities.¹¹



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

HOW IT WORKS



Blue-Zone's sustainable and green manufacturing process¹⁰.

Capture

Blue-Zone's globally patented **Deltasorb®** and **Centralsorb®** technology captures 100% of the WAGs before they are vented to the environment.⁹

Production

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

Extraction

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

Sustainable Source

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

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, MHS; 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

¹¹Based on Molecular Weight.

*Pending regulatory approvals, Desflurane Health Canada Approved.

JOIN US

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

Help us green the world

GET CERTIFIED

Contact us at health@blue-zone.ca



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