Join our mission to achieve Net-Zero Emissions



Our planet won't wait.

Neither we will.

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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@Blue-Zone Technologies @Blue-Zone Technologies @BlueZoneToronto

Sustainable ANESTHESIA RECOVERY



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



Blue-Zone Technologies sustainable anesthesia recovery



Over 60,000 Operating Rooms in North America¹

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

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



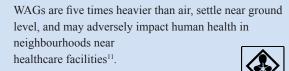
The un-used anesthetic is typically removed from the Operating Room and vented into the environment³

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



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 ⁵https://www.encon.be/en/calculation-co2-offsetting-trees ⁶https://www.ameriresearch.com/inhalation-anesthesia-market/ 7 Turk J Anaesthesiol Reanim. 2021 Apr; 49(2): 93-99. ⁸https://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 W. 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 *Pending regulatory approval

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JOIN US

Help us green the world

GET CERTIFIED

Contact dan.mcelroy@focushealthpro.com

