

FREYTECH INC.

REMOVE GREENHOUSE GASES AND ODOR

*In any Indoor Facility or
Outdoor Area In Real Time /
Continuous / Long-Term Basis
Without Electricity or Other
Consumables*

**GENERATE & SELL YOUR
OWN CO₂e CREDITS**

&

**DECARBONIZE &
MONETIZE**



**ENVIRONMENTAL
BALANCE DEVICE
(EBD TECHNOLOGY)**

EBD Space Odor
90 x 90 x 24 mm



EBD Soil Pack
90 x 16 mm

EBD Ground Pack
110 x 110 x 8 mm



SCIENTIFICALLY VALIDATED

- *Certified by the Ministry of Science and Innovation of Spain*
- *Certified "Safe to Use" by Florida International University (USA)*
- *Verified by NWTC University (Wisconsin, USA) for methane gas removal*
- *Proven by the Polytechnical University of Cartagena (Spain) to eliminate up to 98% of GHGs and ammonia gas*



EFFICIENT & SCALABLE

- *Installs in hours, not months*
- *Highly scalable for small to large-scale systems*
- *Service life of 15+ years with minimal maintenance*



COST-EFFECTIVE & SUSTAINABLE

- *Low-cost solution compared to traditional systems*
- *Operates without chemicals or electricity*

www.Freytech.com

What it is: EBD systems are readily deployable units that enhance and expedite the bioremediation of pollution in Air, Water and Soil. In the air, EBD causes the REMOVAL of greenhouse gases (GHG) and the elimination of bad odors. As the gases are being generated and emitted, EBD is enabling a supercharged bioremediation process degrading and eliminating them in real time. EBD is already in operation in a number of countries in the EU and North America in various applications and sectors on an industrial scale.

How it works: All matter is made up of atoms - tiny building blocks that include protons, neutrons, and electrons. Many natural and industrial processes depend on how electrons are transferred or shared, especially when it comes to pollution and environmental stress.

When air, water, or soil is polluted by chemicals, oil, heavy metals, GHG or other contaminants, it becomes toxic to the beneficial microbes that help ecosystems stay balanced and self-cleaning. A major culprit behind this damage is something called "oxidative stress", which is often caused by excessive levels of unstable Reactive Oxygen Species (ROS). The unstable ROS molecules behave like microscopic wrecking balls, stealing electrons from other molecules and triggering a chain reaction that harms biological systems.

Much like antioxidants protect our bodies from oxidative stress, the Environmental Balance Device (EBD) system helps neutralize the effects of ROS in the environment, restoring microbial balance and promoting recovery.

EBD works by interacting with Earth's electromagnetic field as well as positively charged particles from the sun which are ever present in the atmosphere. These interactions influence the molecular and ionic behavior of material located within the EBD treatment zone, restoring balance and positively affecting redox reactions and microbial energy exchange. When installed in a polluted environment, EBD systems function to reestablish energy equilibrium, which in turn causes unstable and oxidizing ROS to stabilize thereby converting it back to healthy oxygen at the molecular level in air, water and soil.

Our team perfected the combination and integration of materials built into the EBD systems which reestablish energy equilibrium enabling ROS stabilization as well as resonance enhancement in all substances located within the EBD treatment zone. Enhanced resonance combined with oxygen stabilization triggers the native, indigenous microbes to secrete specialized and powerful degradative enzymes through biosynthesis. EBD induced enzymes enable the breakdown of greenhouse gas and ammonia molecules into simpler and harmless elements.

Applications: EBD units have small footprints (see above photos and dimensions) and are easily installed around the outer perimeter of any GHG emitting location. Working together in unison, they cause the biodegradation and removal of GHG including, but not limited to, Methane (CH_4), Hydrogen Sulfide (H_2S), Carbon Dioxide (CO_2), Nitrous Oxide (N_2O), Ammonia (NH_3), in open space areas such as in oil fields, oil wells, landfills, wastewater treatment plants, oxidation lagoons, urban areas as well as in enclosed areas such as in manufacturing & industrial plants, factories, oil refineries, farm animal housing facilities, public restrooms, municipal buildings, food processing plants etc. EBD systems are also used to treat municipal wastewater, farm animal slurry wastewater as well as polluted soil. EBD technology is effective in removing and controlling the buildup of scaling & fouling in water piping used in boilers, groundwater wells, agricultural irrigation systems, desalination plants, cooling towers, residential and industrial appliances – in any application using poor quality water. Please contact us for more details and EBD applications.

Service Life: EBD system service life exceeds 15 years.

EBD technology helps achieve net zero by 2050 because it is installed quickly (in hours not months), at low cost, anytime, anywhere, in any polluting sector and location automatically going to work eliminating GHG and other pollutants. No infrastructure is required, and it is effective even when buried in the ground around the outer perimeter of outdoor areas and indoor facilities emitting GHG.

EBD technology is a valuable tool empowering both the public and private sectors to easily meet lower GHG emission goals and regulations. EBD complies with 1) EU Regulation 2018/842 of the European Parliament and of the Council of 30 May 2018 on binding annual greenhouse gas emission reductions by Member States, 2) California Climate Crisis Act (AB 1279, 2022), and 3) UAE Net Zero by 2050 Strategic Initiative.

David F. Roberts, CEO of Freytech Inc., will give a technical presentation at the World Utilities Congress, Abu Dhabi, UAE on May 29, 2025, at 2:40 PM in Theater No. 1, Session No. 25. Will also exhibit in Booth/Stand # 650.
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