

N2N Carbon Capture & Storage Systems

Climate protection in unison with nature.

The Global Climate Crisis

Since 1850, humanity has released **2,500 gigatons** of CO₂ into our atmosphere. Half of these emissions occurred in just the last 30 years, with an additional **50 gigatons** being emitted annually.

While voluntary carbon markets have made progress, they've proven to deliver **extremely limited financial returns for producers**. This market is rapidly being replaced by the UN-backed global carbon accounting system, already mandatory in most European countries.

"Climate change is the greatest challenge humanity has ever faced. It is the race of our lives."

- Grantham Foundation



With over 1,800 major corporations committed to emissions reductions, the Carbon Credit market is expected to grow **15X by 2030** (McKinsey and Co.). UN protocols are projected to be fully implemented globally by the end of 2025, making removal credits valuable commodities traded through the Nasdaq Exchange.

N2N "SIEP" - The Solution

Proprietary Technology

The N2N "SIEP" (Selective Indiscriminate Electro-Chemical Process), Biomass Conversion System uses enzymes and microorganisms to quickly break down any biomass, capturing 97%+ of carbon and permanently attaching it to nutrient-rich soil and organic fertilizers.

First Financially Viable Solution

N2N offers the first financially viable and scalable carbon removal and storage system for producing CORCs (CO₂ Removal Credits) that meet UN standards for long-term removal and storage of carbon from the atmosphere.

Advantages Over Traditional Composting

- Attaches carbon to biomass (no CO₂ off-gassing)
- Maintains stability in solid and liquid forms
- Permanently retains 97%+ of carbon
- Process takes approx. 30 days max vs. 9-15 months for composting
- Traditional composting loses most of its carbon content as CO₂

Fixing the Global Climate Crisis

The N2N Global Solution

Step 1: Utilizes N2N Proprietary Technology

Deploy N2N's proven technologies, products, and processes to quickly create scalable carbon capture, removal, and storage credit projects globally with minimal capital outlay.

Step 2: Global Deployment

Deploy these systems worldwide to begin satisfying the ever-increasing demand for high-value carbon credits.

N2N projects can be quickly scaled with minimal training requirements for employees.

 Hedge

The key advantage of N2N credits is they are "Carbon Removal" credits, where physical carbon is removed and stored for 100+ years, not short-term "avoidance or offset" credits which have significantly lower value and limited demand.

Disrupting the Current Markets

While current systems either delay or limit CO₂ release, the N2N "SIEP":

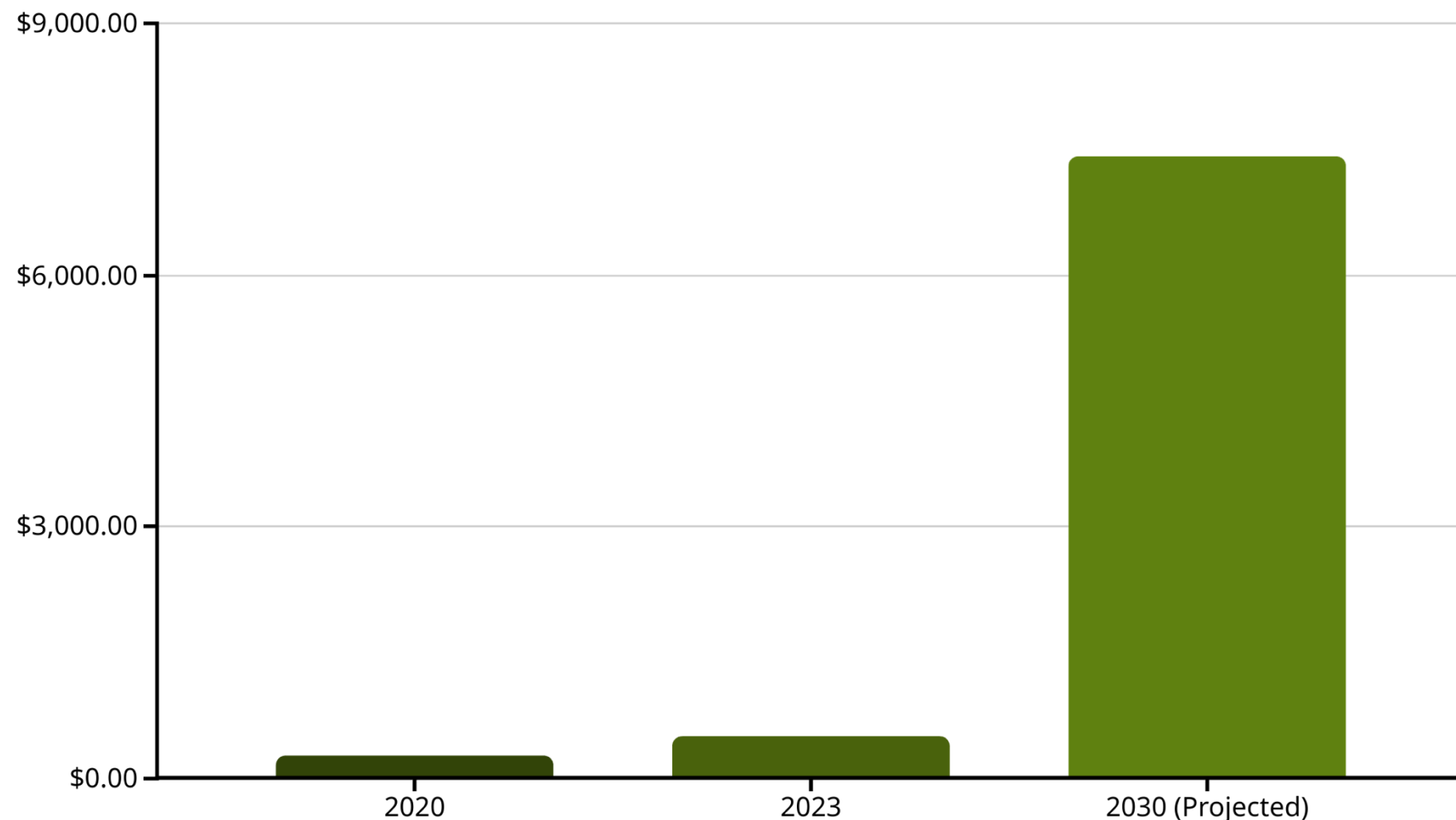
- Removes carbon from Biomass, eliminating CO₂ off-gassing
- Processes high volumes of carbon quickly
- Offers the lowest per/ton processing costs in the industry
- Scales easily to multiple sites with minimal capital cost
- Features transportable processing equipment
- Creates "CORCs", (CO₂ Removal Credits), tradable globally including the NASDAQ Exchange, faster and and cheaper than any other process currently available.

A single "SIEP" plant can equal the production of all other methods currently removing carbon globally.



The N2N systems, products & technologies have been extensively tested both in-house and by independent third parties and proven to create certifiable "Carbon Credits".

Large and Expanding Global Markets



5.1B

US CO2 Emissions

Metric tons of energy-related carbon dioxide emitted by the United States in 2019

44.1B

Global CO2 Emissions

Metric tons of energy-related carbon dioxide emitted globally in 2023

23%

US Market Growth

Annual growth rate of the US carbon market for the foreseeable future

\$85

US Tax Credits by 2025

Per ton tax credit slated by 2025, (currently \$60 / ton), additional to carbon credits

N2N Carbon Capture & Storage Advantages

Unmatched Solution

No other products, systems, or processes offer a scalable, low-cost solution for capturing, storing, and producing Carbon Credits that are also fully organic.

Addressing the Shortfall

Current carbon credits compensate for less than 4% of global greenhouse gas emissions and under 10% of Paris Agreement pledges as of 2020.

Active vs. Passive Approaches

Most existing carbon offsets are passive – not active – and do not increase carbon capture as N2N systems do. The majority are small, single location/product projects designed to reduce future emissions, (known as off-set credits).

UN Certified

N2N works with Puro.earth of Helsinki, Finland (a UN certified auditing company) to independently certify the "SIEP" credits in conjunction with local environmental engineers and satellite testing.

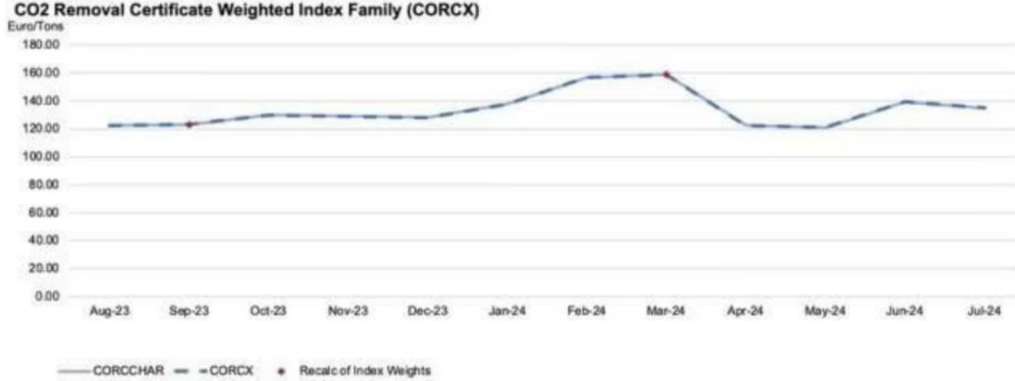
Engineered Carbon Removal & CORC Credits

Carbon removal involves physically capturing CO₂ from the atmosphere, stabilizing it, and placing it into durable storage for at least 100 years.

Puro.earth, an UN-approved international environmental engineering group, has established the first B2B standards, registry, and marketplace for carbon credits including the CORC (CO₂ Removal Credits) price index.

Unlike most carbon offset schemes that focus on emission reductions, Puro.earth credits are based on scientifically verified methodologies for engineered carbon removal.

The N2N "SIEP" methodology meets these rigorous standards.



Current monthly carbon credit value average is €138/ton according to the CORC index based on the Nasdaq trading platform.

In June 2021, Nasdaq acquired a majority stake in Puro.earth, further legitimizing this market.



Large Global Customer Base



Government Carbon Credits

The US Infrastructure Bill contains over \$6 billion in funding for Carbon Credits. Most governments worldwide have implemented Carbon Credit requirements and Carbon Tax schemes for which the N2N process qualifies under UN certification requirements.



Corporate Voluntary Credits

Major global companies are actively seeking Carbon Credits, including Tesla, Amazon, General Motors, Google, Daewoo Heavy Industries, and airlines.



Retail Credits

The voluntary "retail" market is growing rapidly as more groups seek to purchase carbon offsets to reduce their greenhouse gas footprint and become "carbon neutral." This market advances societal awareness of carbon issues and consumer behavior impacts.

N2N Flagship Technologies & Products



HEDGE

The N2N "HEDGE" range of eco-friendly products work with nature to increase carbon capture (sequestration) in plants by multiple times what nature achieves naturally.

BIOVERT

The N2N "BIOVERT" products are produced from organic/natural biomass and converted into high-grade organic growing mediums, soils, and fertilizers, while eliminating off-gassing, retaining captured carbon, and unlocking organic micro-nutrients.

SIEP

The N2N "SIEP" system is a benign, green technology that attaches carbon to processed biomass, stabilizing it in solid and dissolved forms, eliminating atmospheric warming while capturing 96%+ of available carbon and converting it into tradable carbon credits.

"SIEP" Technology:

Selective Indiscriminate Electro-chemical Process

- Creates a unique electrochemical reaction achieving molecular dissociation
- Processes biomass in less than 4 weeks vs. 9-18 months for traditional composting
- Targets specific molecules, preserving beneficial components
- Works with virtually any biomass feedstock (requires only ¼-inch particle size)
- Eliminates CO₂ off-gassing completely
- Remains unaffected by foreign bacteria, with no unusable by-products



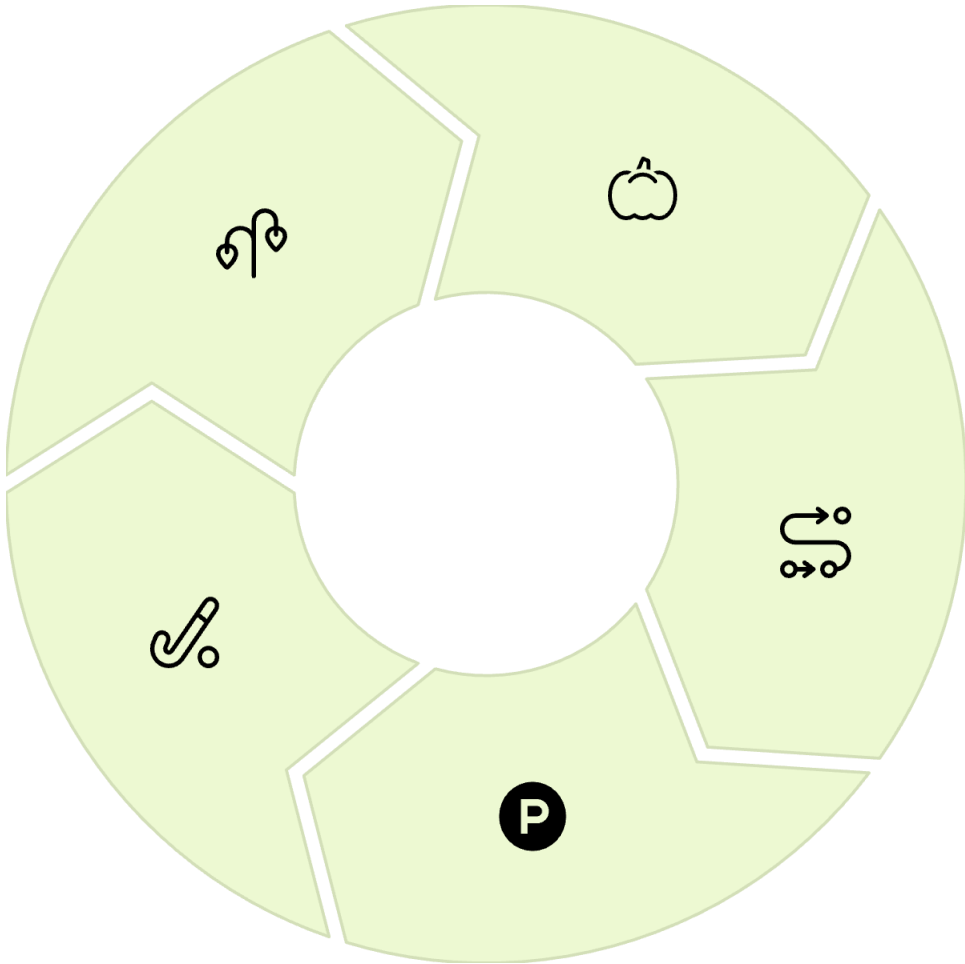
The N2N Regenerative Cycle

Enhanced Plant Growth

HEDGE Products accelerate CO₂ absorption in plants up to 300+%

Field Application

BIOVERT Organic Products enhance field growth



Biomass Harvesting

Biomass and produce is harvested

SIEP Conversion

Biomass is converted to high-value organic products while carbon storage/credit generation takes place

Product Creation

N2N organic products/credits available for sale or application

N2N proprietary products accelerate all processes throughout this cycle, creating a truly regenerative system.

N2N Revenue Opportunities



N2N Carbon & Soil Systems
Deployment of proprietary technology



Carbon Capture Projects
N2N approved implementation



HEDGE Application
Application of carbon-enhancing products



Credit Validation
Measured increase in CO₂ sequestration



Enhanced Growth
N2N processed organic products enhance field growth



Biomass Processing
Using N2N Proprietary Processes



Product Sales
Sell N2N processed and grown products



Carbon Credit Sales
Measure carbon removal and sell credits

Validation and Testing



Academic Validation of N2N Technologies

- University of Liverpool Open Innovation Hub
- Chiapas University of Mexico Agriculture Department
- Cornell University Field Extension Study
- Multiple independent university trials



Commercial Validation of Products & Processes

- Three years of continuous study on N2N owned commercial farms
- Global commercial trials
- Ongoing testing of different biomasses across various countries
- Independent third-party testing



Next Stage Developments - Expansion Plans

Growing Specific High-Value Carbon Crops for Processing

- Completed and passed testing for 100-year non-bury carbon credit certification
- Plans to use Biovert products to expand farming operations for carbon-specific crops
- Crops grown using HEDGE spray products and Biovert organic fertilizers
- Recent collaboration with Agri-Aloe LLC to utilize their GroAlo products
- Early trials show GroAlo products increase microbial activity within Biovert soils



Since 2008, Coats Agri Aloe, LLC has conducted multiple third-party studies to test their patented GroAloe products, including with N2N products / processes which are showing promising synergies.

Current Focus - Next Certifications

100-year Gold Standard Certification

Currently, Biochar is the only stored carbon certified to be spread on top of the ground (not buried) while qualifying for non-buried CORC carbon credits.

While Biochar has proven carbon attachment for 100+ years, it requires a costly, energy-intensive process with relatively low carbon capture rates. Several independent reviews have found excessive Biochar application can lead to soil degradation by altering pH and nutrient balance.



The N2N "SIEP" process has been tested and proven to capture 96%+ of available carbon, securing it to processed biomass while achieving the same 100-year storage results as Biochar.

N2N has completed testing and expects to obtain the same certification as Biochar by Q3 2025.

N2N is in the process of becoming an accredited supplier of certified carbon credits directly to the Nasdaq Exchange.

What are N2N Hedge Products?

Eco-friendly, plant protectant, surface modification products that really work



Plant Protection

- Encases plants/foilage in a protective barrier
- Protects against moulds & mildew
- Deters aphids, mites and other destructive insects

Growth Enhancement

- Enhances photosynthesis (more than 2.8x)
- Increases the rate of Carbon Sequestration
- Increases plant growth and yield

Sustainability

- Enhances plant health
- Allows for "Veganic" growing
- OMRI listed as safe for use in organic growing



What are N2N BIOVERT Products?

Innovative Creation Process

BIOVERT products, including organic soils and fertilizers, are crafted through the innovative N2N "SIEP" process, transforming organic matter into soil amendments that enhance soil texture and release essential nutrients.

Environmental Benefits

The resulting BIOVERT products are organic, rich in beneficial microbial life, and packed with bio-available nutrients. The entire process occurs without emitting greenhouse gases or heat into the atmosphere.

Fermentation vs. Decomposition

Unlike traditional composting which relies on decomposition, "SIEP" uses specially N2N developed enzymes to process biomass, allowing immediate conversion of biomass into soil or growing mediums/organic fertilizers without the typical 1+ year maturation period.

Versatility & Efficiency

"SIEP" handles a wide range of feedstocks and has been optimized to maximize efficiency and carbon storage. BIOVERT products contain elevated levels of nitrogen and carbon, with fixed carbon levels many times higher than traditional composting methods.

High Value N2N "BIOVERT" Products

Containing Captured & Stored Carbon

Valuable End Products

When "SIEP" is used to process grass, timber, vegetation, or similar materials, it produces highly marketable and profitable Class "A" nutrient-rich organic soils and fertilizers.

Carbon Retention

The "SIEP" process is fast and cost-effective while keeping captured carbon within the processed product, unlike traditional composting that can lose upwards of 95% via off-gassing.

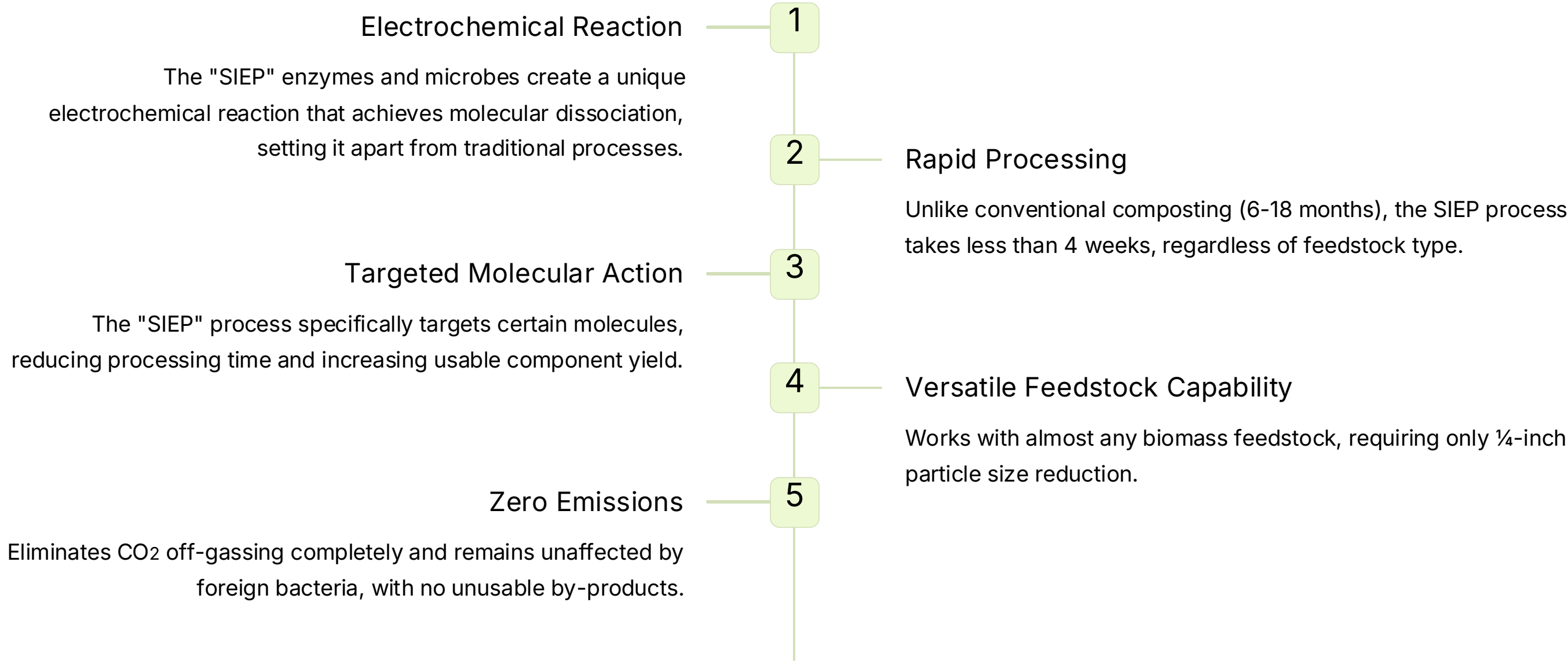
Waste Management Applications

When applied to animal manure or sewage-based materials, "SIEP" significantly reduces or eliminates faecal coliform colonies, offering powerful waste management solutions.

Market Opportunity

With up to 50% of material in city landfills being biodegradable and suitable for "SIEP", producing high-value BIOVERT soils and capturing tradable carbon credits represents an exciting and socially responsible opportunity.

N2N "SIEP" - Selective Indiscriminate Electro-chemical Process



N2N Contracting Group

(A wholly owned subsidiary of N2N Farming Group)

N2N Contracting Group undertakes the physical works and supplies all equipment and management for N2N “SIEP” and N2N BIOVERT operations globally

- N2N Contracting Group provides all site services for each different N2N project. This includes the supply of land clearing, excavation, grinding, mulching, preparation for cropping and harvesting, transportation and all establishment and on-site services required for a N2N project.
- The Contracting Group owns / operates a wide variety of equipment / machinery including dozers, loaders, excavators, grinders, flat-bed / tip-trucks and trailers, tractors, spray-units, baggers, cultivation and harvesting equipment etc.
- Having the ability to undertake the Civil part of any project allows N2N to control all aspects of the operation as a fully vertically integrated business thereby reducing the overall risk of any project and eliminating any potential third-party issues.



The “SIEP” system for “BIOVERT” and Carbon Credit production.

Bagging not required for carbon credit only projects, bury and cover only.

- The biomass is processed into quarter inch sizing for Biovert products, seven-inch sizing for bury only, using a hammer mill, tub-grinder or similar grinding equipment.
- Processed Biomass then delivered to bury site or bag stuffer.
- Processed Biomass is sprayed with a measured amount of a liquid SIEPenzymes.
- The Biomass is stored for approximately four weeks in the air-tight bags, (or similar oxygen starved environment), to ensure full conversion of all variations in feedstock composition.
- The bag / bury site, is then opened and a small portion of a proprietary “living soil” is added to the mix to start regeneration and reinvigoration of the microbes and initiate the process to create an active BIOVERTproduct.
- Alternatively, when SIEP is being used for the creation of Carbon Credits only, the treated biomass is buried in open pits with soil put on top for cover, where it remains.
- No off-gassing, heat generation or loss in quantity of the treated biomass ever occurs with the SIEP system.



Validation - Lab Results

Initial Carbon Content Testing

The "OKC Soil, Water and Forage Analytical Laboratory" test shows a carbon content in the Westville Biomass of **50.56%**



Soil, Water & Forage Analytical Laboratory

Oklahoma State University Division of Agricultural Sciences and Natural Resources
 045 Agricultural Hall
 Stillwater, OK 74078
 E-mail: soiltesting@okstate.edu
 Website: www.soiltesting.okstate.edu

ANIMAL WASTE ANALYSIS REPORT

Adair Co Extension
 ADAIR COUNTY EXTENSION OFFICE
 220 W DIVISION
 COURTHOUSE
 STILLWELL, OK 74960
 918-696-2253

Name: N2N Global Holdings Group
 Location: 2011W Danforth Rd#162 Edmon sawdust
 Lab ID No.: 217332
 Customer Code: 1
 Sample No.: 14889
 Received: 8/6/2024
 Report Date: 8/13/2024

TEST RESULTS FOR: Solid SOURCE: Compost

TEST	As Received	As Received lbs/ton	Dry Basis lbs/ton
Moisture			
Dry Matter			
pH			
EC			
Soluble Salts:			
Total N	4.19 %	3.8	
Phosphorus (P2O5)			
Potassium (K2O)			
Calcium (Ca)			
Magnesium (Mg)			
Sodium (Na)			
Sulfur (S)			
Iron (Fe)			
Zinc (Zn)			
Copper (Cu)			
Manganese (Mn)			
Total C	50.56 %	611.1	

* DL = Detection Limit

Sherry Clark
 Signature

Carbon Retention Testing

The "Ward Laboratories Inc" test on the "SIEP" processed biomass shows an organic matter LOI-% of just 3.9% (representing the remaining unattached carbon), demonstrating a **96.1% retention of carbon** in the processed material.



Account No.: 49788
 Results For: ALPHA PROJECT
 Location: GO GREEN

MERCHANT, MATT
 411 6TH AVE
 VINTON, LA 52349

Soil Analysis Report
 Invoice No.: 1426817
 Date Received: 05/17/2024
 Date Reported: 05/21/2024

Sample ID	Soil pH	Moisture %	Organic Matter %	EC	Ca	Mg	K	S	P	Fe	Zn	Cu	Mn	N	C	LOI %	LOI %	LOI %
01046	7.5	0.52	NONE	3.9	0.3	1	87	250	1403	198	120	22.5				10.4	0.3	0.3

Analysed By: Patrick Preece
 Date: 05/21/2024
 Page 1 of 1
 Box 308-234-2419 Fax: 308-234-1940 9160 100 www.wardlab.com 4027 Cherry Ave., P.O. Box 755 Kearney, Nebraska 68542-0755

N2N "SIEP" Summary

N2N Carbon Projects have Great Potential

Growing Global Market

The Global Market for Voluntary Carbon Credits is growing exponentially, with international standardization already ratified and implementation underway.

Zero-Emission Solution

N2N Carbon processes have zero CO₂ emissions while helping offset hard-to-abate residential and commercial emissions.

Significant Supply Gap

Less than 5% of global demand for Carbon Credits is currently being satisfied, with the gap widening as more countries implement carbon requirements for international trade.

Proven Commercial Viability

N2N has demonstrated it can generate significant Carbon Credits on a commercial scale, at low costs, utilizing proven and tested, natural and organic products and processes.

The N2N Carbon system has the potential to become the dominant global system for producing Carbon Removal/Storage Credits while significantly removing significant amounts of CO₂/carbon globally.

Contact N2N

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