



Investor Presentation

February 2024

Miniaturization puts technology in everyone's hands

AireCore will enable everyone will have access to mass spectrometry



Mainframe to Laptop:
1980: 1.16M Mainframe Computers
2021: 2.9 Billion Laptops



Land Line to Cellular:
1980: \$6B USD Market
2021: \$400B USD Market



Laboratory to Field:
2021: \$5B USD – AQMS Market
2023: Miniaturization through patented AireCore enables expanded use in Forensics, Pharma, Life Sciences and now, Emissions Management

The Monetizing of Emissions Mitigation Strategies

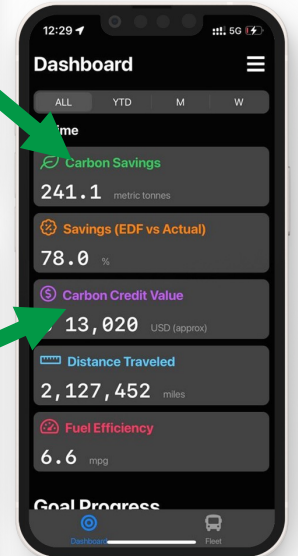
What is AireCore?

AireCore includes the **emissions measurement device, encrypted cloud storage, and desktop/mobile applications** to view your emissions and carbon footprint.

\$3,000 USD: AireCore System

\$1,200 USD/year: Reporting, Service, Maintenance

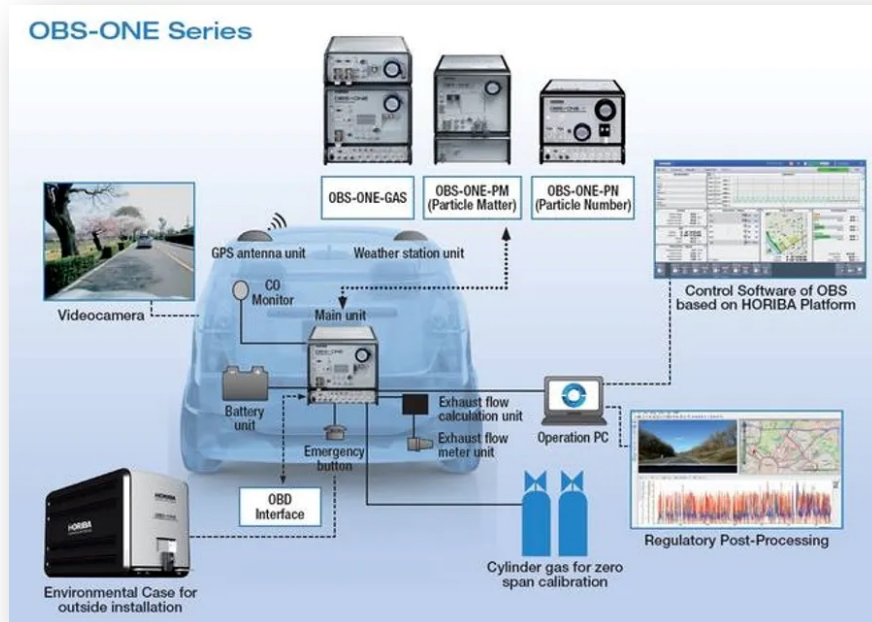
\$10,000 USD/year: Rig Monitoring, Measurement, Reporting



*Generation 1 Unit Shown

Is it Possible to Measure Emissions Without AireCore?

- Horiba OBS-ONE PEMS – System Cost - \$100,000 USD+
- Requires Separate Battery Unit
- Requires Calibration Gas Cylinders
- Over 140lbs.



The OBS-ONE PEMS is designed for ease of deployment, consistency, and flexibility

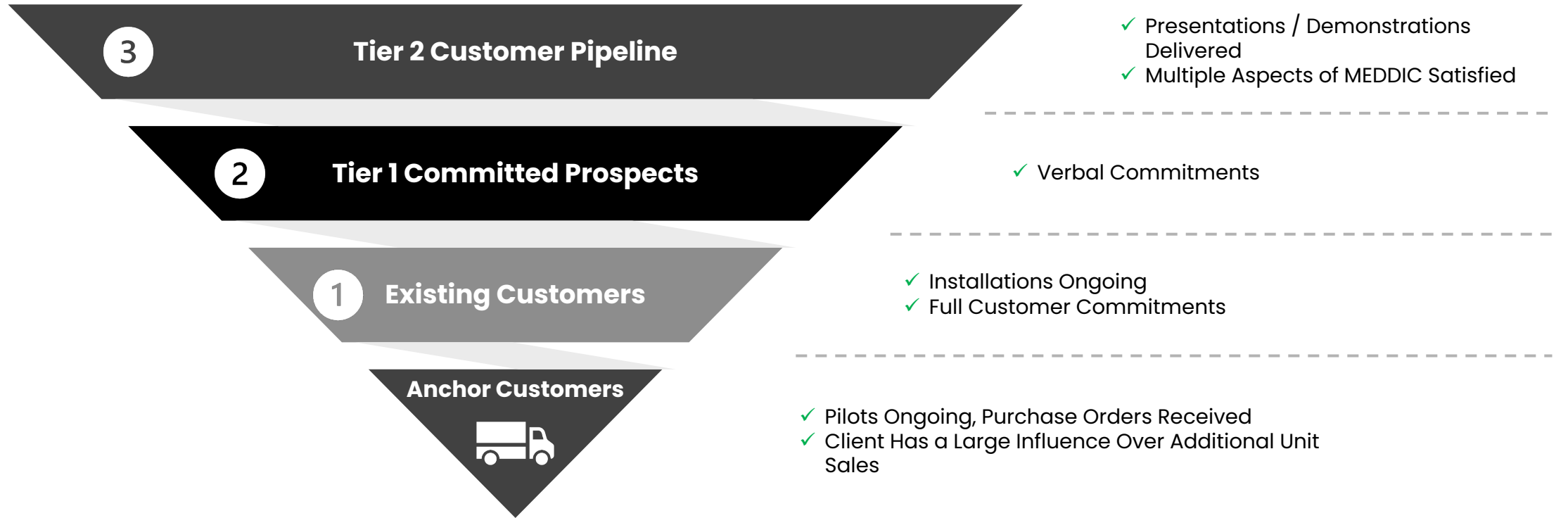
Our PEMS is designed for ease of deployment, consistency in the face of extreme environments, and flexibility with the future in mind, allowing users to add technology and adapt to changing measurement needs.

The OBS-ONE series, originally launched in 2014, offered an advanced PEMS for on-board measurement that complies with the latest/pending regulations of the EU and US rulemaking bodies.

It is ideally suited for RDE measurement, heavy-duty in-use programs, and real-world development. System modules characterize emissions, greenhouse gases, particle number (OBS-ONE PN), and particle mass (OBS-ONE PM) via a state-of-the-art interface known as HORIBA ONE.



Sales Funnel



Illustrative Potential Customer Base – 200,000 Units



Sales Pipeline – Anchor Customer – Nabors (NYSE : NBR)

Anchor Customers: Customers who have pledged purchase orders to Spectaire and additionally represent a part of a larger supply chain increasing the chances of expansion into a further partner base upon successful implementation.

- Nabors (NYSE : NBR)**
- Signed Purchase order 500 Units @ \$2000/Unit
 - Recurring Revenue of \$10,000 / Unit based on utilization
 - Estimated ARR (annual recurring revenue) – \$5M USD
 - Identified Assets Under Control – 1500 Additional Units
 - Partner Opportunities Include – Chevron, Exxon, Shell, BP, etc.

Implementation Status

– Pilot in Delivery

Estimated Completion of 500 Units

– TBD Based on Funding

Existing Pilot Metrics

- 70% Measured Reduction in NOx vs. Current Reporting
- 55% Measured Reduction in SO2 vs. Current Reporting
- 18% Reduction in CO2 vs. Current Reporting



NABORS



Sales Pipeline – Anchor Customers

Nabors (NYSE : NBR) –

Mosolf –

Ordered Units 500, Additional Units Under Control 1000

Ordered Units 300, Additional Units Under Control 1000

Sales Pipeline – Customers

G&S Direct –

International Landscaping –

Pilot Installed and Ongoing, 55 AireCore Units

Pilot Installed and Ongoing, 30 AireCore Units

Sales Pipeline – Committed Prospects

(clients with understanding of price and verbal commitment of installation upon availability of units)

Bison Trucking –

UPS –

Pacific Northwest National Labs (PNNL)–

10 Unit Pilot – 8000 Direct Trucking Units – 22,000 Branded Trucks

10 Unit Pilot – 126,000 US Trucks in Fleet – Partner Fleets Additional

15 Unit Pilot – 500 AireCore Stationary Units



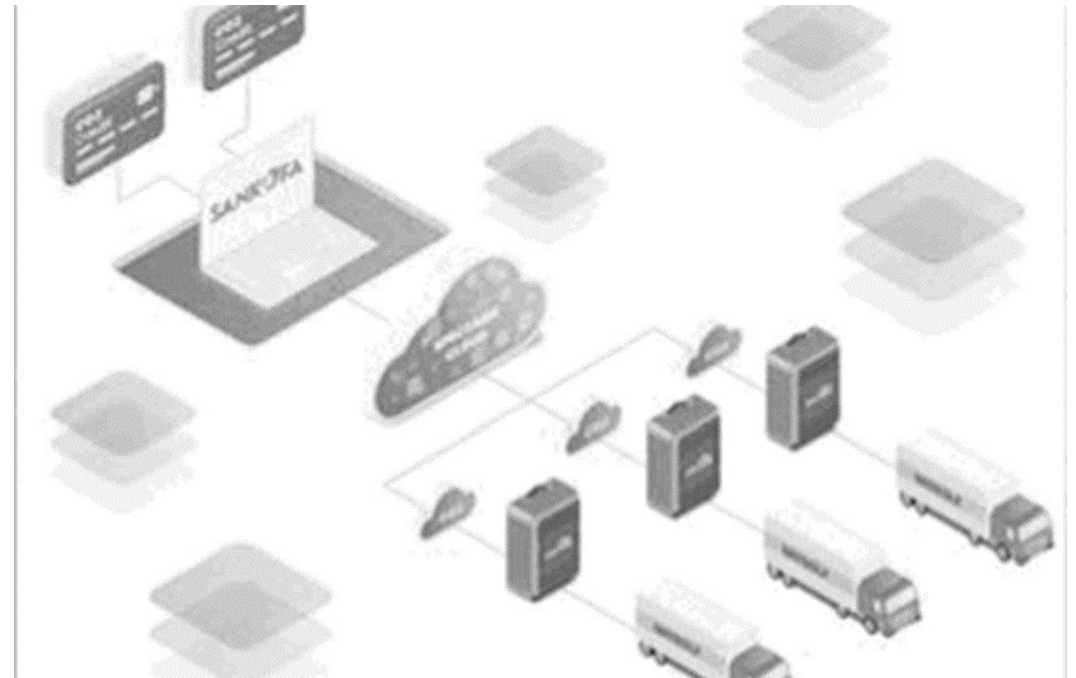
Proving Lower Emissions Generates Carbon Credits

Enabling Technology-Based Credits with Permanence

Most Verified Carbon Standard (VCS) carbon credits are land use based; however, the permanence of these credits are proving unsuitable to satisfy market demands.

Demand for Carbon Credits is Increasing

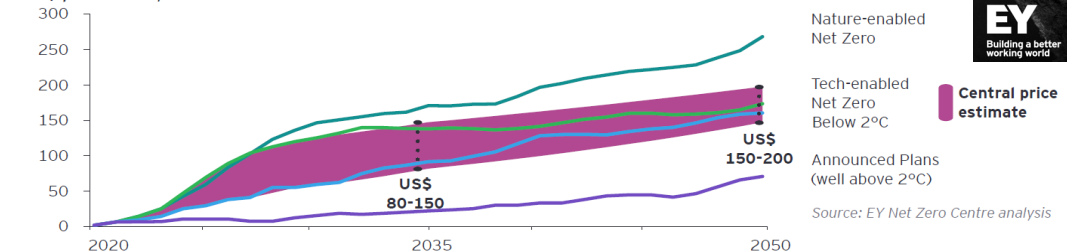
Public disclosure of net zero targets is creating exponential demand growth for carbon credits, Only technology-based credits have the permanence to fill the rapidly expanding demand.



Increasing demand, expectations of quality, and unit supply costs will make carbon credits scarce and expensive

Offset credit price outlook, 2020-2050

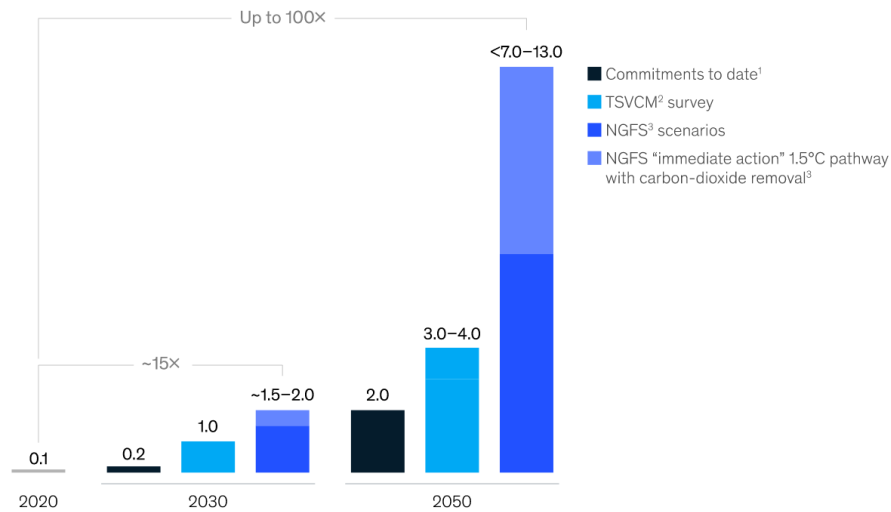
US\$ per t-CO2e; 2020 dollars



Consensus Indicates the VCS Market Will Grow

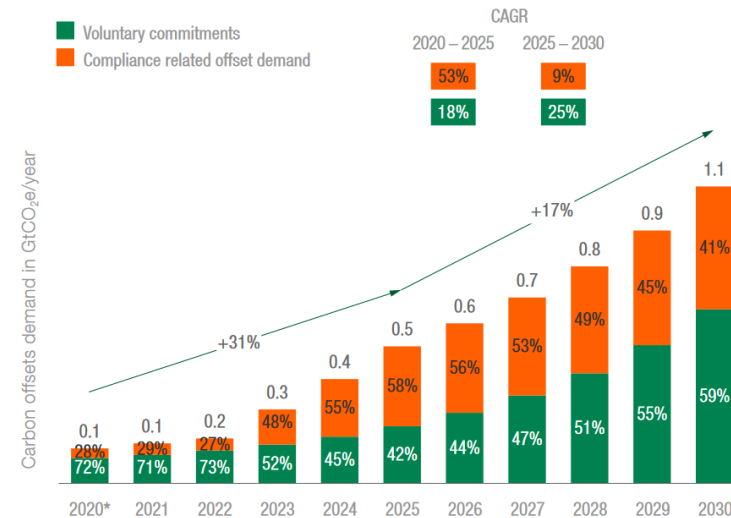
Global demand for voluntary carbon credits could increase by a factor of 15 by 2030 and a factor of 100 by 2050.

Voluntary demand scenarios for carbon credits, gigatons per year



Voluntary commitments to drive demand

Demand driven by voluntary commitments and industry-compliance schemes



*Actual
Compliance demand includes California CoT and other smaller geographical compliance offset demand
Source: Registries (Verra, Gold Standard, ACR, CARI, CORSIA, IMO, IEA, GDP, Company commitments, ICAP, Fraunhofer ISI, BCG analysis)

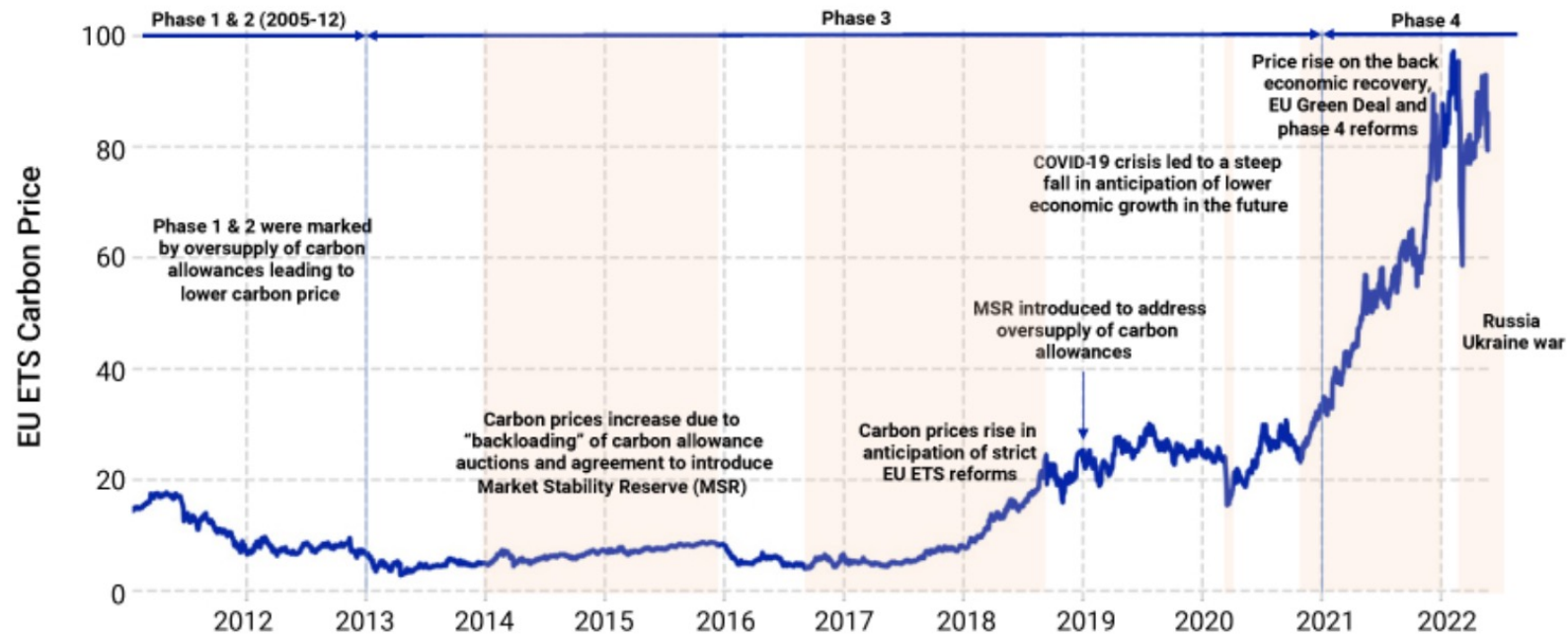
McKinsey
& Company



Compliance Markets Pricing Reaching New Highs

Government Run - \$1T USD Approx – 20% Coverage

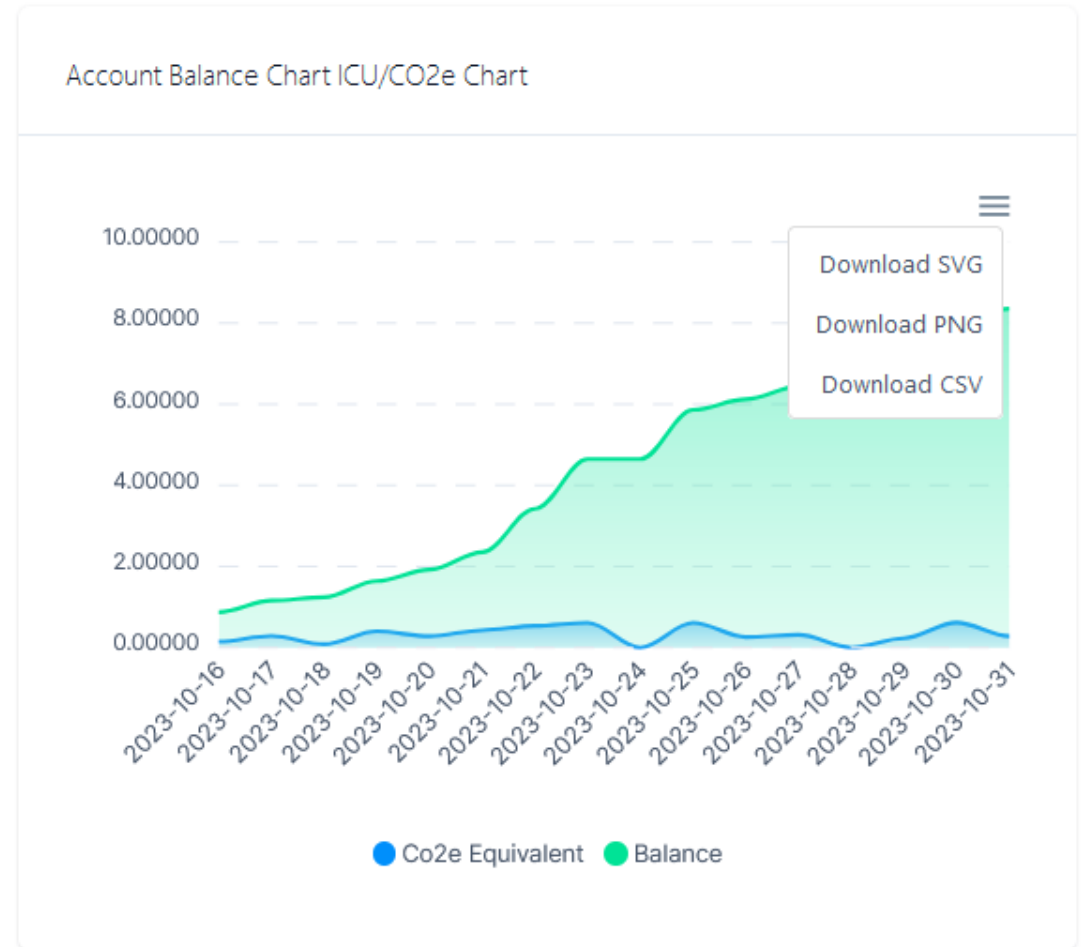
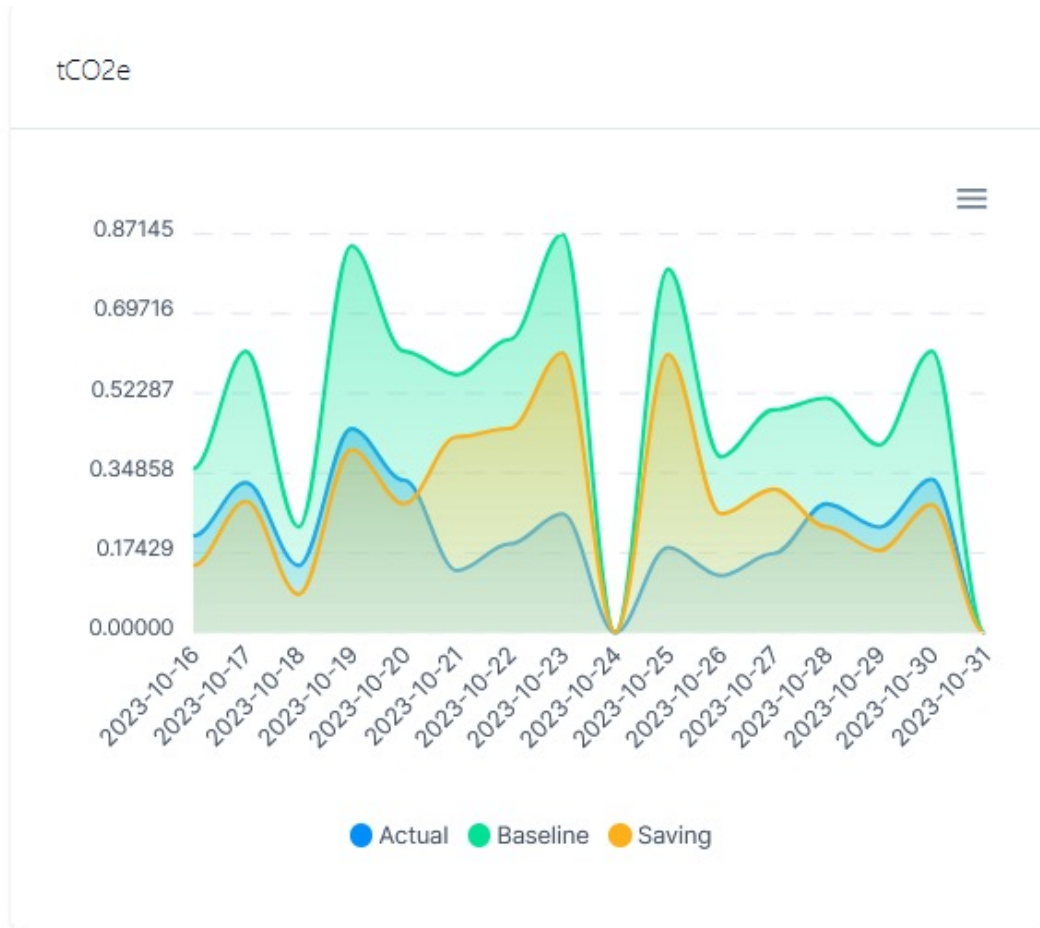
Timeline of EU ETS carbon price



Sample period: Jan. 18, 2011, to May 31, 2022. EU ETS carbon price is based on 12-month constant-maturity futures prices.

AireCore Carbon Credit Calculation

User Interface: Daily Savings vs. Baseline – Accumulated tCO2e Savings



High Level Business Model

Manufacturing Capacity 10000
Trucking Units 9000
Drilling Rig Units 1000

Revenue

Hardware Sales 30,000,000
Service Trucking 10,000,000
Service Drilling Rig 10,000,000
Total 50,000,000

Costs

Manufacturing 20,000,000
Payroll 6,000,000
Legal,Acct.,insurance 3,000,000
Other 2,000,000
Total 31,000,000

EBITDA 19,000,000



Management Team: Spectaire Inc



Brian Semkiw

Chief Executive Officer



- Serial technology entrepreneur with a track record of building and scaling transformational technologies, e.g. Apple Pay
- Two-time public company CEO, Rand Worldwide and Carta Worldwide



Brian Hemond, PhD

Chief Scientific Officer



- Co-inventor of the Spectaire AireCore MMS technology at MIT
- Served as Chief Executive Officer / Chief Operations Officer of Indigo Technologies, an electric vehicle startup



Chris Grossman

Chief Technology Officer



- 15+ years of executive experience in VAR/PSP business
- Former Chief Operations Officer for a global sales organization pioneering enterprise technical sales techniques



Leonardo Fernandes

Chief Financial Officer



- 15+ years of experience in capital markets, investor relations, and fundraising
- Co-founder and COO of firm providing financial statements preparation and IPO-readiness services

Spectaire In The News

BELL CEREMONIES

Spectaire Rings the Nasdaq Stock Market Opening Bell

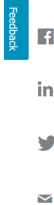
PUBLISHED
OCT 25, 2023



Spectaire In The News

Spectaire Announces Shipment of First Commercial Units and Manufacturing Partnership With Columbia Tech

PUBLISHED
NOV 29, 2023 8:00AM EST



Manufacturing of Spectaire's AireCore Outsourced to Columbia Tech, a Subsidiary of the Coghlin Companies

WATERTOWN, Mass., Nov. 29, 2023 (GLOBE NEWSWIRE) -- [Spectaire Holdings Inc.](#) (NASDAQ: SPEC) ("Spectaire" or the "Company"), a provider of innovative air quality monitoring and emissions reduction services, announced that it has shipped its first commercial units from manufacturing partner, Columbia Tech, a subsidiary of Coghlin Companies.

The outsourcing of manufacturing to Coghlin Companies significantly reduces the ramp-up time and capital requirements to initiate the scaled production of AireCore™, Spectaire's patented micro-mass-spectrometer. Aligning with an experienced commercialization partner allows Spectaire to focus on

Spectaire Announces Manufacturing Financing Agreement to Enable Mass Production

PUBLISHED
DEC 12, 2023 8:00AM EST



Viva Capital to Provide Purchase Order and Factoring Financing to Accelerate Growth into Road Freight Market

WATERTOWN, Mass., Dec. 12, 2023 (GLOBE NEWSWIRE) -- [Spectaire Holdings Inc.](#) (NASDAQ: SPEC) ("Spectaire" or the "Company"), a leader in air quality monitoring and emissions reduction technology, today announced further details of its balance sheet-light business model in form of manufacturing financing agreements with Viva Capital Funding, LLC ("Viva").

The agreement with Viva allows Spectaire to dramatically lower the working capital needs in the production of AireCore™ units to reach this market. The Company believes this capital-efficient financing structure, together with the [outsourcing of manufacturing of AireCore™ units to Columbia Tech](#), a subsidiary of Coghlin Companies, creates an asset-light production model that will enable Spectaire to achieve positive free cash flow in a shorter time frame.

Spectaire In The News

Spectaire and Sankofa LTD Announce Sale of \$750,000 USD of Carbon Offset Credits

PUBLISHED
NOV 13, 2023 8:00AM EST



WATERTOWN, Mass., Nov. 13, 2023 (GLOBE NEWSWIRE) -- [Spectaire Holdings Inc.](#) (NASDAQ: SPEC) ("Spectaire"), a provider of air quality monitoring and emissions reduction services, is pleased to announce the sale of 12,500 carbon offset credits for \$750,000 USD with Sankofa LTD ("Sankofa") acting as broker to the transaction. This transaction marks a significant milestone in the carbon offset marketplace, as management believes these credits will be some of the first credits sold based on measurement of actual emissions in the field.

Traditionally, carbon offsets are approved at the program level where the environmental impact is estimated, and carbon credits are issued based on those projections. Through AireCore, Spectaire measures emissions directly in the field resulting in what management believes are some of the first carbon credits sold based on the measurement of actual reductions.

Revolutionizing The Carbon Credit Industry: Introducing The Spectaire Carbon Offset Portal

PUBLISHED
DEC 4, 2023 4:05PM EST



Bringing Next Generation Carbon Credits to Heavy Duty Trucking with Enhanced Transparency and Specificity

WATERTOWN, Mass., Dec. 04, 2023 (GLOBE NEWSWIRE) -- [Spectaire Holdings Inc.](#) (NASDAQ: SPEC) ("Spectaire"), a leader in air quality monitoring and emissions reduction technology, proudly unveils its latest innovation – the Spectaire Carbon Offset Portal. This groundbreaking platform redefines the carbon credit landscape, serving as a comprehensive hub for carbon credit creation and acquisition. Powered by Spectaire's proprietary AireCore™ emissions measurement system, the portal provides unparalleled detail and transparency for every carbon credit issued by Spectaire.

The Spectaire Carbon Offset Portal heralds a new era in the carbon credit market. It empowers buyers with the ability to scrutinize individual carbon credits issued using Spectaire's technology – a stark departure from the traditional practice of buying generic credit blocks. Each credit, meticulously quantified using Spectaire's cutting-edge AireCore™ mass spectrometers, is searchable in the portal,



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