

Lite Air

TEC.

SKYHOOK

CLEAN AIR SOLUTIONS AT SCALE

Building clean-air infrastructure. Turning pollution into solutions.

www.liteairtech.com

EXECUTIVE SUMMARY

TURNING POLLUTION INTO SOLUTIONS

Modular carbon capture and air-purification infrastructure for industrial facilities

THE OPPORTUNITY
A staged platform designed to help industrial operators deploy, validate, and monetize measurable emissions reduction.

COMPANY OVERVIEW

LiteAir TEC Inc. is a Texas-based environmental-technology company developing the Skyhook™ Tower, a proposed modular platform for high-volume air treatment, carbon capture, and co-pollutant removal near petrochemical, refining, and other high-emission industrial sources. Commercialization is engineering-first: validate the system, deploy an instrumented pilot, then scale corridor by corridor.

TECHNOLOGY PLATFORM

Multi-stage air treatment with sensor networks and digital-twin analytics for measurable, auditable performance.

DEPLOYMENT & OPERATIONS

Site assessment, permitting, installation, commissioning, monitoring, and ongoing O&M through facility partnerships.

COMMERCIAL MODEL

Owner-operator and design-build-sell pathways supported by data services, licensing, and potential verified carbon value.

WHY THIS MARKET MATTERS

Industrial facilities need credible pathways to reduce emissions without building full carbon-market and deployment expertise in-house.

ENGINEERING-FIRST COMMERCIALIZATION

VALIDATE → PILOT → VERIFY → PARTNER → SCALE

Illustrative concept. Performance, capture volumes, financing, and incentive eligibility remain subject to engineering validation, measurement, verification, and applicable requirements.



OUR PURPOSE

CLEAN AIR. HEALTHIER PLANET. BETTER FUTURE.

01 MISSION

To engineer and deploy scalable clean-air infrastructure that captures carbon, removes harmful pollutants, and delivers measurable impact for people, communities, and the planet.

02 VISION

A future where every breath is cleaner, communities are healthier, and the atmosphere is restored for generations to come.

03 WHAT WE DO

We design, engineer, and plan to operate the Skyhook™ clean-air platform, combining advanced vortex airflow, base-integrated multi-stage filtration, sensors, and renewable-energy systems for industrial-scale carbon and pollutant removal.

Illustrative Concept — Engineering Validation Required.

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MARKET OPPORTUNITY

HIGH-MARGIN BUSINESS MODEL

500,000+
TONS CO_2 CAPTURED PER TOWER / YEAR

Site-enhanced target scenario — engineering validation required.

UP TO
$180
/ METRIC TON

45Q CREDIT — QUALIFYING DAC STORAGE CASE

3 TOWERS
IN 5 YEARS

Pilot + 2 deployments

MULTIPLE REVENUE STREAMS

45Q tax credits • Carbon credits • Licensing • Data services • Equipment & maintenance



45Q TAX CREDITS — WHERE ELIGIBLE

- 12-year credit period begins when qualifying capture equipment is placed in service.
- Subject to measurement, verification, IRS rules, storage or utilization requirements, and project qualification.
- Credits may be transferred or monetized where permitted.

ABOUT 45Q RATES

Up to $180 per metric ton applies only to qualifying direct-air-capture carbon oxide permanently stored and meeting prevailing-wage and apprenticeship requirements. Qualifying utilization may receive a different rate. Eligibility is not guaranteed.

Illustrative Concept — Engineering Validation Required. Financial and capture figures are *scenarios, not guarantees.*

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ILLUSTRATIVE FINANCIAL SCENARIOS

SCENARIO ECONOMICS & ECOSYSTEM

ANNUAL 45Q CREDIT POTENTIAL PER TOWER GROSS — BEFORE COSTS

SCENARIO	CO_2 CAPTURE / YEAR	45Q RATE	GROSS CREDIT POTENTIAL	NOTES
VALIDATION CASE	50,000 metric tons	Up to $180 / ton	Up to **$9 MILLION**	Early deployment; ramp-up period
INTERMEDIATE CASE	250,000 metric tons	Up to $180 / ton	Up to **$45 MILLION**	Stable operations; typical performance
TARGET CASE	500,000+ metric tons	Up to $180 / ton	Up to **$90 MILLION+**	Site-enhanced target at scale

5-YEAR REVENUE POTENTIAL

3 towers deployed by Year 5



POTENTIAL INVESTORS

- Infrastructure Funds
- Climate Technology Investors
- Family Offices
- Strategic Energy Investors
- Sovereign Wealth Funds
- Private Equity

STRATEGIC PARTNERSHIPS

- Oil & Gas Refiners
- Petrochemical Facilities
- Utilities & Power Producers
- Engineering & EPC Firms
- Carbon Credit Registries
- Environmental Data Platforms
- Government & Municipal Agencies
- Industrial Manufacturers

All scenarios assume qualifying DAC, permanent storage where applicable, prevailing-wage and apprenticeship compliance, measurement and verification, full-year operation, and applicable law. Illustrative only — not guaranteed; subject to engineering, site, tax, legal, and third-party validation.

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INNOVATION & DEPLOYMENT

Global Reach. Cleaner Future.



UNITED STATES
Texas Gulf Coast — priority pilot corridor

EUROPE
Industrial decarbonization markets

MIDDLE EAST
Industrial and energy hubs

MEXICO
Monterrey — industrial partnership opportunity

ARGENTINA
Bahía Blanca — emerging industrial opportunity

INDIA
High-impact air-quality markets

Illustrative Concept — Engineering Validation Required. Markets, funding, performance, and deployment timing are planning scenarios, not guarantees.

CAPITAL STRATEGY
$250M–$500M

Phased capital pathway aligned to engineering validation, pilot deployment, and commercial scale-up.

CARBON REMOVAL COMPETITION
Company-reported global competition milestone: Top 200, 2022–2025.

PROTOTYPE PROGRESS
Early airflow prototype demonstrated strong airflow and purification behavior. Full-scale performance requires independent engineering validation.

STRATEGIC COLLABORATION
Engaging industry leaders, researchers, engineering firms, and environmental innovators.

GLOBAL IMPACT VISION
Scalable clean-air infrastructure designed to reduce carbon and co-pollutants and improve air quality in high-need regions.

PILOT READINESS
Pre-commercial platform advancing through engineering validation, site selection, permitting, and instrumented pilot planning.

STRONG PARTNERSHIPS. GREATER IMPACT.

LiteAir TEC and three strategic partners advancing **cleaner air**, **cleaner water**, and stronger communities.

LiteAir TEC. SKYHOOK + BigWater Protocol + ATAP Water Solutions + WSSP Water Sustainability & Solutions Program

LITEAIR TEC – SKYHOOK™

Proposed clean-air infrastructure for carbon and co-pollutant removal at industrial scale.

BIGWATER PROTOCOL

Web3-enabled engagement designed to connect participation, incentives, and measurable air-and-water impact.

ATAP WATER SOLUTIONS

Atmospheric water generation systems designed for modular, off-grid clean-water access.

WSSP

Water-sustainability and generation solutions focused on sourcing clean freshwater from subsea wells.

AN INTEGRATED CLEAN-AIR & CLEAN-WATER ECOSYSTEM

CLEAN AIR INFRASTRUCTURE

Carbon and co-pollutant removal pathways.

ATMOSPHERIC WATER

Modular atmospheric water generation.

SUBSEA FRESHWATER

Sustainable freshwater sourcing and generation.

DIGITAL ENGAGEMENT

Data, participation, incentives, and measurable impact.

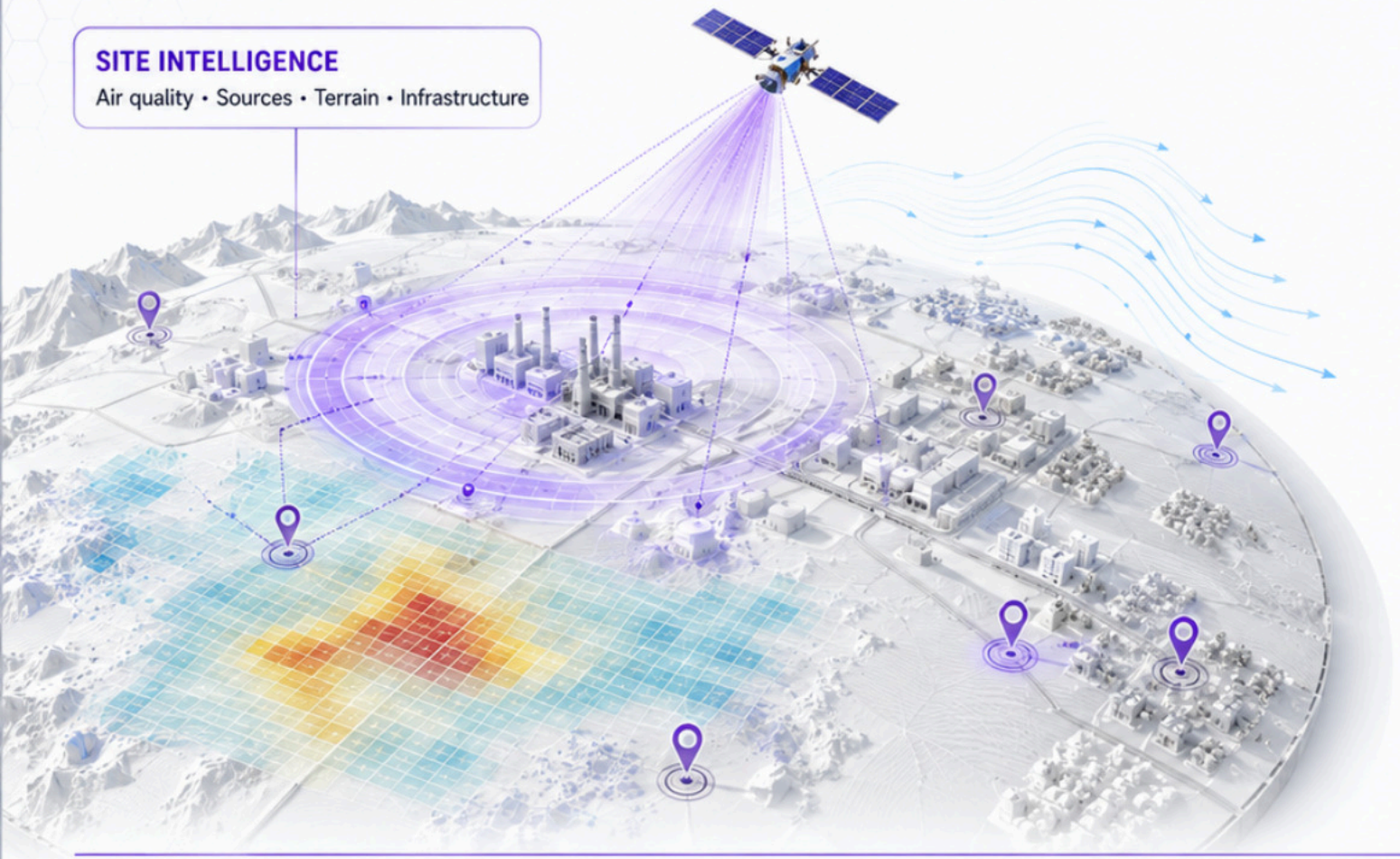
ONE COMPANY. THREE STRATEGIC PARTNERS. SHARED IMPACT.

Collaboration scope and commercial terms remain subject to definitive agreements, technical validation, regulatory requirements, and deployment-partner approval.

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PREPARATION & DISCOVERY

Building the foundation for scalable clean-air infrastructure that lasts.



OUR DISCOVERY PROCESS

01 ENVIRONMENTAL ASSESSMENT
Evaluate air quality, pollution sources, meteorology, terrain, and site conditions to identify the highest-impact opportunities.

02 ENGINEERING & CFD ANALYSIS
Model airflow, intake conditions, vortex behavior, pressure losses, and treatment-system requirements using site-specific engineering inputs.

03 INFRASTRUCTURE PLANNING
Plan foundations, electrical systems, utilities, access, constructability, safety, and integration with host-facility operations.

04 PERFORMANCE MODELING
Develop scenario-based estimates for airflow, capture, pollutant removal, energy demand, and operational performance.

05 DEPLOYMENT STRATEGY
Create a phased plan from validation and pilot deployment through measurement, verification, optimization, and commercial scale-up.

ASSESS → MODEL → PLAN → VALIDATE → DEPLOY

Illustrative Concept — Engineering Validation Required. Site design, CFD, performance, permitting, and deployment plans require project-specific data and independent review.

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TOP EMITTING SECTORS

Focusing on major stationary and industrial sources where site-specific clean-air infrastructure may deliver the greatest impact.

GLOBAL EMISSIONS EXPOSURE

01 POWER GENERATION

The largest global stationary-source category, driven primarily by coal and natural-gas combustion.

02 HEAVY INDUSTRY — STEEL & METALS

Energy-intensive production with significant combustion and process emissions.

03 CEMENT & BUILDING MATERIALS

High process emissions from calcination combined with fuel combustion.

04 OIL, GAS, REFINING & PETROCHEMICALS

Concentrated emissions across extraction, processing, refining, and chemical manufacturing.

05 FREIGHT & INDUSTRIAL TRANSPORTATION

Large fuel-related emissions concentrated around ports, rail hubs, logistics corridors, and industrial zones.

General global ordering for strategic context; relative emissions vary by region, year, technology, and accounting boundary.

LITEAIR DEPLOYMENT PRIORITIES

- Texas Gulf Coast refinery and petrochemical corridors
- Power and utility host facilities
- Steel, cement, and heavy-manufacturing sites
- LNG and industrial-processing hubs
- Waste-to-energy and large stationary sources
- Freight, rail, port, and logistics corridors

SITE QUALIFICATION LENS

- Pollutant concentration
- Airflow and plume conditions
- Host-facility readiness
- Energy and utility access
- Permitting and MRV pathway
- Commercial economics

TARGET THE LARGEST SOURCES. VALIDATE EACH SITE. SCALE PROVEN PERFORMANCE.

Target sectors are strategic planning priorities, not deployment commitments. Site selection, capture potential, economics, permitting, and incentive eligibility require project-specific engineering and independent validation.

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FIRE: EXECUTION & DECISION-MAKING

Turning engineering into measurable environmental performance through disciplined stage gates.

LiteAir TEC advances from site-specific engineering to pilot evidence, verified operating data, and informed commercial-scale decisions.

01 ENGINEER
Design with precision

- Establish site-specific design basis and boundary conditions
- Complete CFD, airflow, structural, and mechanical analysis
- Define filtration, electromagnetic, and Fusion Light Chamber requirements
- Model capture scenarios, pressure losses, energy demand, and safety

→

02 BUILD
Fabricate to the engineering basis

- Manufacture prototype and pilot-scale Skyhook components
- Construct the integrated base and treatment chambers
- Install filtration media, collection systems, sensors, and controls
- Integrate power, storage, backup, and data architecture

→

03 DEPLOY
Commission and validate

- Transport, install, and integrate tower and base systems
- Calibrate sensors, monitoring equipment, and controls
- Commission airflow, treatment stages, and safety systems
- Verify continuous-operation capability through instrumented testing

→

04 OPERATE
Measure, optimize, and decide

- AI-assisted air-quality and performance monitoring
- Predictive maintenance and operational optimization
- Environmental reporting, alerts, and auditable data records
- Measurement, reporting, verification, and third-party review pathways

DECISION GATES

ENGINEERING BASIS APPROVED → PILOT FABRICATED → COMMISSIONING DATA VERIFIED → COMMERCIAL SCALE DECISION

DESIGN & SCENARIO INPUTS

Airflow design target: up to 25 million CFM • Gross capture scenarios: 50,000 to 500,000+ metric tons CO_2 per year • Continuous operation, design life, backup resilience, and commercial performance subject to validation.

ENGINEER THE BASIS. BUILD THE PILOT. VERIFY THE DATA. SCALE THE EVIDENCE.

Illustrative Concept — Engineering Validation Required. *Performance, capture, operating life, resilience, cost, and deployment timing are targets or scenarios—not validated guarantees.*

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INNOVATIVE CLEAN-AIR INFRASTRUCTURE.
BUILT FOR GENERATIONS.

LEARN MORE • PARTNER • INVEST

www.liteairtech.com

LET'S BUILD THE FUTURE OF CLEAN AIR.



WHY CLEAN AIR MATTERS

HEALTHIER LIVES
Cleaner air supports respiratory health and healthier communities.

STRONGER COMMUNITIES
Cleaner air improves quality of life and community resilience.

A HEALTHIER PLANET
Carbon and co-pollutant removal supports atmospheric restoration.

ECONOMIC OPPORTUNITY
Clean-air infrastructure can create jobs and support innovation.

A LEGACY FOR GENERATIONS
Building cleaner-air systems creates lasting stewardship.

WHEN DISASTER STRIKES, CLEAN-AIR INFRASTRUCTURE MATTERS.



VOLCANIC ASH



TOXIC EVENTS



INDUSTRIAL ACCIDENTS & CHEMICAL SPILLS



WILDFIRE SMOKE

BUILT FOR THE MOMENTS THAT MATTER MOST.

LiteAir TEC systems are being designed for rapid deployment with resilient **backup-power capability.**

> ***"CLEANER AIR. STRONGER PEOPLE. A BETTER FUTURE FOR ALL."***

Illustrative Concept — Engineering Validation Required.

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SKYHOOK BASE TREATMENT SYSTEM

PROPOSED MULTI-STAGE AIR-TREATMENT ARCHITECTURE

1 DOWNFLOW INLET

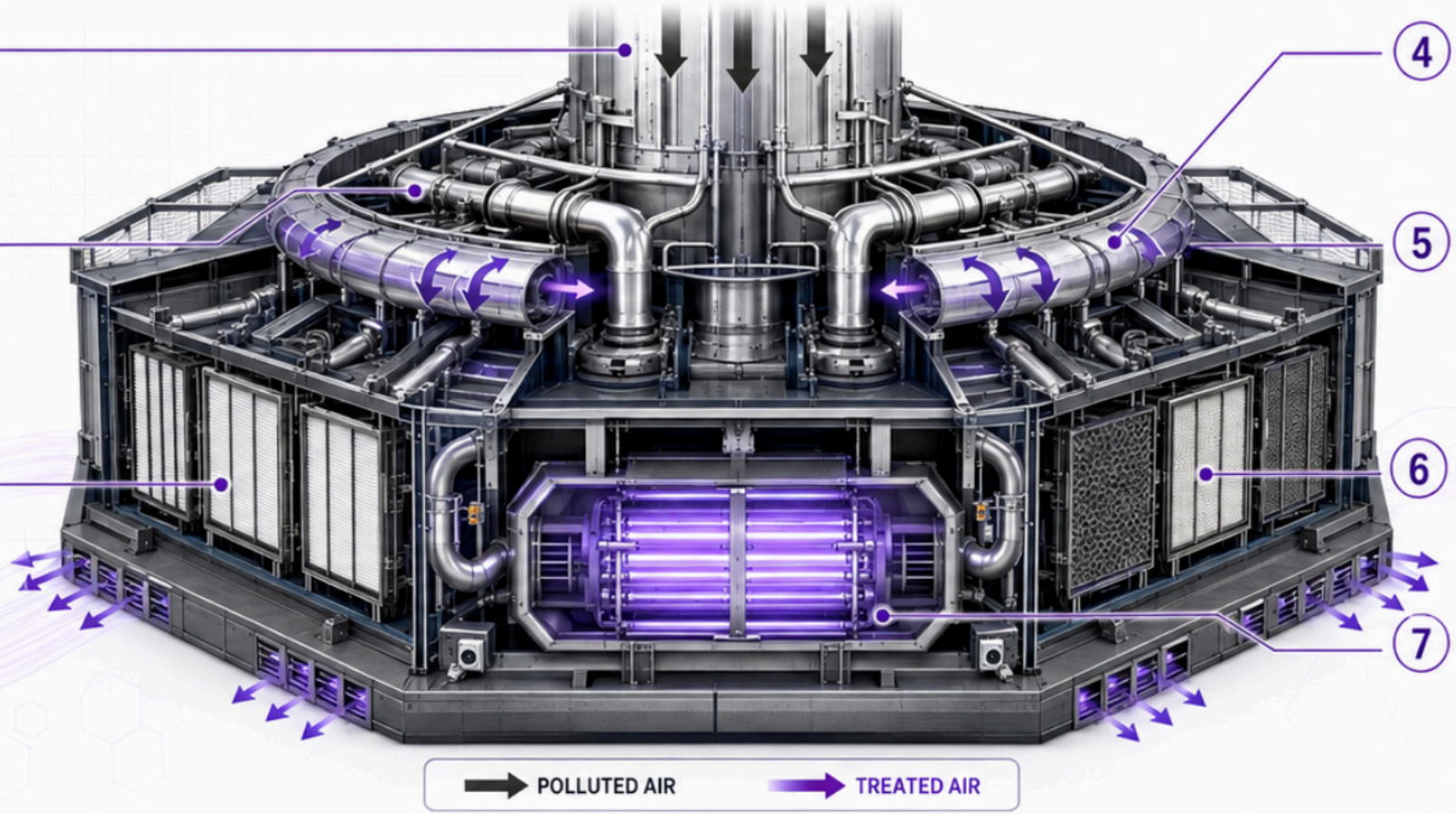
Polluted air arrives from the tower shaft and enters the base distribution manifold.

2 VORTEX BLOWER & FLOW DISTRIBUTION

Twin-ring blower assemblies maintain controlled radial airflow. Mechanical stage—not filtration.

3 PRE-FILTRATION

Replaceable pre-filters remove dust, sand, metals, and larger particulates.



4 HEPA FILTRATION

HEPA banks target fine particulate matter, including PM10 and PM2.5; they do not capture CO_2.

5 REUSABLE CARBON FILTER MODULES

Carbon-media modules are proposed for CO_2, VOC, and selected gas-phase co-pollutant capture.

6 FUSION LIGHT CHAMBER

Final proposed UV-C and photocatalytic treatment stage before discharge.

7 SENSORS & 360° BASE DISCHARGE

Air-quality sensors support monitoring; treated air exits through perimeter base vents.

AIRFLOW DESIGN TARGET:	CONTINUOUS-OPERATION CONCEPT:	MONITORING:	MODULAR FILTER ACCESS:
25M+ CFM	24/7	CO_2 • PM2.5 • PM10 • NO_x • VOCs	SERVICEABLE BASE

PRE-FILTER → HEPA → CARBON MEDIA → FUSION LIGHT → MONITORING → DISCHARGE

Illustrative Concept — Engineering Validation Required. Performance, media selection, pressure drop, residence time, and capture efficiency remain subject to independent engineering validation.

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CARBON BYPRODUCTS & UTILIZATION PATHWAYS

FROM CAPTURED CO_2 TO POTENTIAL COMMERCIAL VALUE

1 CAPTURE & CONDITIONING



Captured CO_2 is separated, conditioned, monitored, and prepared for the selected end-use or storage pathway.

2 CUSTOMER UTILIZATION OPTIONS



BUILDING MATERIALS

Carbon-cured concrete, cement additives, and aggregates.



MINERALIZATION

Stable carbonate materials and potential long-term storage in solid form.



SYNTHETIC DIAMONDS

Specialty carbon feedstock where purity and process requirements are met.



INDUSTRIAL PRODUCTS

Potential chemicals, polymers, carbon feedstocks, and synthetic fuels.



AGRICULTURE

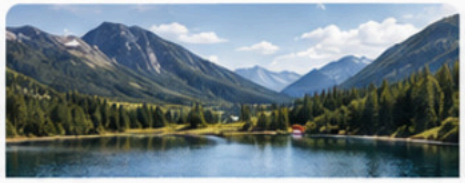
Controlled greenhouse enrichment subject to purity and safety requirements.



GEOLOGICAL STORAGE

Third-party transport, injection, monitoring, and approved storage.

THE FINAL PATHWAY IS SELECTED WITH THE CUSTOMER BASED ON PRODUCT SPECIFICATIONS, ECONOMICS, REGULATION, AND VERIFIED ENVIRONMENTAL OUTCOMES.



FLEXIBILITY

Multiple end-use pathways.



PARTNERSHIP

Customer and industry collaboration.



COMPLIANCE

Pathway-specific regulatory requirements.



VALUE CREATION

Potential products, services, and environmental value.



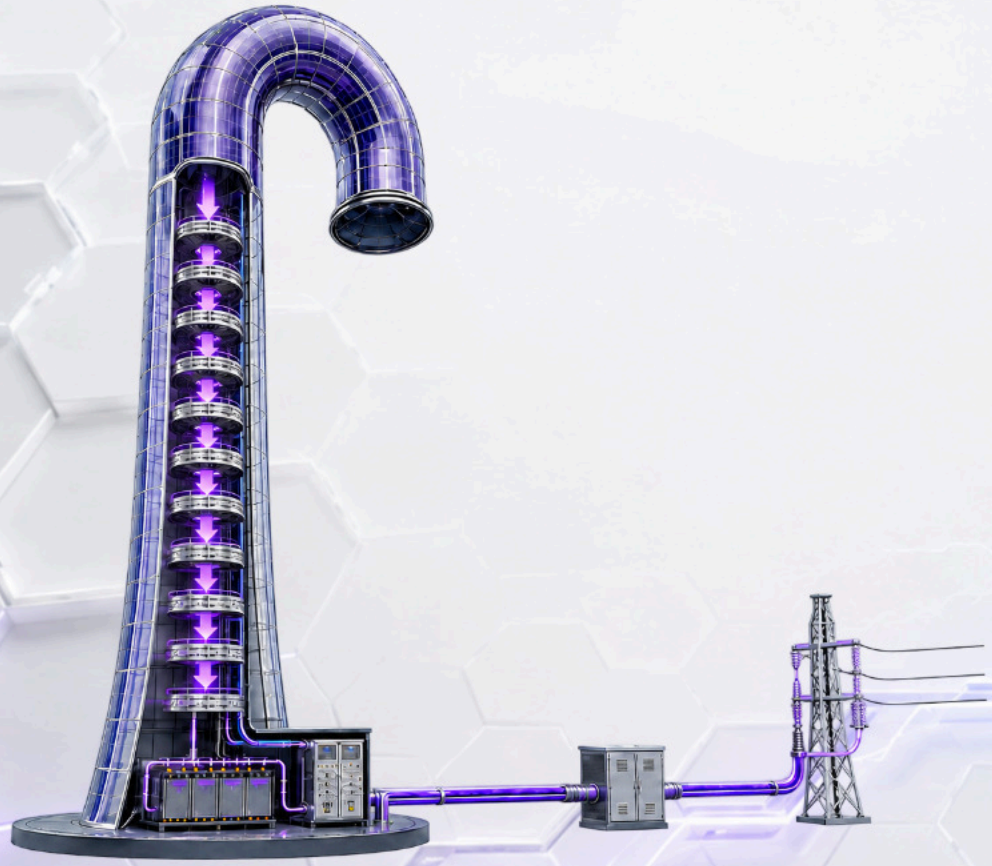
SUSTAINABILITY

Measurable outcomes supported by verification.

Illustrative pathways only. Utilization, storage, lifecycle emissions, product eligibility, commercial value, and 45Q treatment depend on pathway-specific engineering, approvals, measurement, verification, and applicable law.

HOW SKYHOOK™ MAKES, STORES & USES ELECTRICITY

A simple four-step explanation of the integrated energy system



1 SUNLIGHT BECOMES ELECTRICITY

Photovoltaic film wrapped around the usable tower surface converts sunlight into DC electricity.

Illustrative peak: ≈0.95–1.26 MWdc

Basis: 45-ft diameter × 800-ft straight shaft, 60% active coverage, 150–200 W/m² rated film.

2 MOVING AIR SPINS THE GENERATORS

Up to 11 turbine-generator modules may be installed based on electricity needs. Each module faces the downward airflow.

Illustrative gross range at 11 modules: ≈15–120 kW

Example only: 3-m rotors at 10–20 m/s airflow. Final module count and net recovery require load, airflow, and pressure-drop validation.

3 POWER IS CONDITIONED & STORED

Inverters and controls combine both sources. The battery smooths the supply and supports continuous operation.

4 THE TOWER IS POWERED FIRST

100%+ DESIGN GOAL

Fans • filtration • sensors • controls

Verified surplus may support the grid only after tower loads and storage reserves are met.

SOLAR OUTPUT + NET AIRFLOW RECOVERY − TOWER LOAD = AVAILABLE GRID EXPORT

Illustrative Concept — Engineering validation required. Final output depends on site solar resource, film product, rotor design, pressure drop, module ratings, and measured tower load.

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Thank You

BUILDING THE FUTURE OF CLEAN AIR.

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SKYHOOK™ TOWER — 3-D CONCEPT IN DEVELOPMENT

Illustrative Concept — Engineering Validation Required.