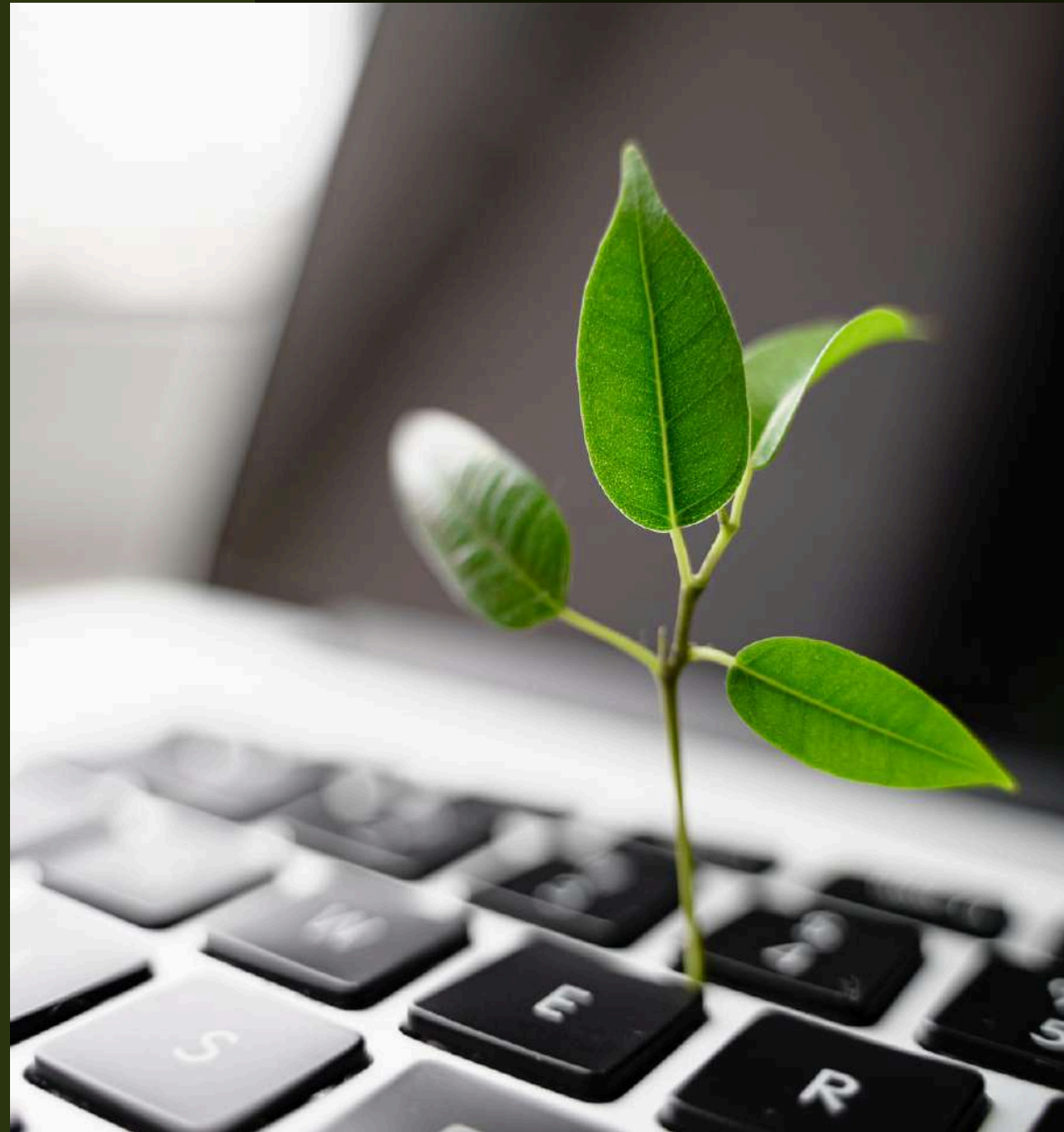


The background of the slide features several glass test tubes containing a vibrant green, granular substance, which is microalgae. The tubes are arranged in a slightly overlapping manner, with the one in the foreground being in sharp focus, showing the individual grains of the algae. The background is dark, making the bright green color of the algae stand out prominently.

Microalgae-Based Liquid Trees: A Sustainable Future

Revolutionizing Urban Greenery
and Carbon Sequestration

Lo Carbon Solutions



Lo Carbon Solutions

For a Green Future

Lo Carbon Solutions, a leading climate tech company committed to addressing the pressing challenges of climate change by leveraging the potential of agricultural lands in India. Our pioneering project focuses on the generation and trading of carbon credits, empowering a cluster of farmers to participate in carbon markets and contribute to global efforts in carbon offsetting.

Lo Carbon Solutions, work to help to develop, implement and evaluate comprehensive strategies to reduce carbon emissions by transforming sustainability into competitive advantages. At Lo Carbon Solutions, we partner with our growing client base to help them tackle the obstacle of climate change to create a sustainable and impartial world for tomorrow.

Microalgae-Based Liquid Tree Carbon Sequestration



- **Location** : Urban areas in India, the Middle East, and Africa
- **Target**: 20,000 Indoor and Outdoor Liquid Tree Implementation
- **Project Value** : 100 Million US Dollars
- **Time Period** : 10 Years
- **Revenue Stream** : Trading of Carbon Credits Generated and Margin from Implementation and Maintenance of the Liquid trees.

Microalgae-Based Liquid Tree Carbon Sequestration



- **Current Status :** The technology has already been successfully implemented in several areas in India, demonstrating its efficacy and scalability.
- **Overview :** This project involves the deployment of microalgae-based liquid trees in urban environments. These innovative systems are designed to sequester carbon dioxide and produce oxygen, addressing air quality issues in densely populated regions.

Brief Overview of Liquid Trees

What Are Liquid Trees?

Definition:

Liquid trees are advanced environmental systems that use microalgae to capture carbon dioxide (CO₂) and purify air in urban environments.

They consist of transparent containers filled with water and nutrients, where microalgae perform photosynthesis.



Brief Overview of Liquid Trees

Key Features

- Compact Design:
 - Designed for installation in urban spaces such as streets, plazas, and building facades, where traditional greenery is limited.
- Continuous Operation:
 - Operates 24/7, absorbing CO₂ and releasing oxygen, regardless of weather conditions.
- High Efficiency:
 - Microalgae can absorb 10–50 times more CO₂ per square meter compared to conventional trees.



Brief Overview of Liquid Trees

Benefits

- Space-Efficient:
 - Ideal for densely populated cities with limited land for traditional tree planting.
- Low Maintenance:
 - Requires minimal upkeep with automated systems for nutrient delivery and air circulation.
- Sustainable:
 - Uses minimal resources—low water and energy requirements—while providing substantial environmental benefits.



Brief Overview of Liquid Trees

Applications

- **Urban Air Purification:**
 - Enhances air quality by removing pollutants and CO2 from the atmosphere.
- **Climate Action:**
 - Contributes to global efforts to reduce carbon emissions and combat climate change.



Introduction to Microalgae and Its Role in Sustainability

What is Microalgae?

- Single-celled organisms that thrive in aquatic environments such as oceans, rivers, and lakes.
- Capable of rapid photosynthesis, converting sunlight, CO₂, and nutrients into energy, while producing oxygen.
- Known for their high biomass productivity and efficient carbon absorption, making them an ideal candidate for sustainable technologies.

A Key Player in the Future of Urban Sustainability.

- Microalgae's potential for scaling up carbon capture and its adaptability to different environments make it a critical tool for urban sustainability projects.

The Global Need for Innovative Green Technologies



Rising Environmental Challenges

- Climate Change:
 - Global temperatures have risen by **1.1°C** since the pre-industrial era, leading to extreme weather events, rising sea levels, and ecosystem disruptions.
 - Urgent need to reduce **greenhouse gas emissions** and combat global warming.
- Air Pollution:
 - Over 90% of the world's population lives in areas with air quality below WHO standards.
 - Urban areas, in particular, suffer from high levels of CO₂, particulate matter, and other pollutants.
- Deforestation and Land Degradation:
 - Traditional forests are disappearing at alarming rates, impacting biodiversity and carbon absorption capacity.
 - Urbanization and industrialization reduce space for conventional green solutions like trees and parks.

The Need for Green Technology Solutions

·Innovative Approaches Required:

- Conventional environmental solutions like tree planting are insufficient to address the scale of the climate crisis.
- Space limitations in urban areas and rapid industrial development require compact, high-efficiency green technologies.

·Liquid Trees and Other Green Innovations:

- Technologies like microalgae-based liquid trees offer scalable solutions for carbon capture and air purification in urban areas.
- Innovations in renewable energy, sustainable infrastructure, and carbon sequestration are critical to achieving global sustainability goals.

Driving Global Sustainability Goals

- Paris Agreement & UN SDGs:
 - Green technologies play a key role in meeting international climate targets, such as limiting global temperature rise to 1.5°C.
 - Promoting clean air, sustainable cities, and climate action as part of global efforts to protect the planet.

How Microalgae-Based Liquid Trees Function

1. Microalgae as the Core Component

- Photosynthesis Process:
 - Microalgae absorb carbon dioxide (CO₂) from the air and use sunlight to perform photosynthesis, producing oxygen (O₂).
 - They are highly efficient at capturing CO₂ due to their fast photosynthetic rate and simple cellular structure.

2. Continuous Air Filtration

- CO₂ Absorption:
 - Air is continuously drawn into the liquid tree system, where microalgae capture CO₂ and release purified oxygen.
 - This creates a closed-loop system that operates 24/7, ensuring constant air purification.

3. Compact Design for Urban Use

- Modular Structure:
 - Liquid trees are housed in transparent containers filled with water and nutrients to support microalgae growth.
 - Designed to fit into urban spaces like streets, plazas, or building facades, making them suitable for space-constrained environments.

4. Minimal Resource Requirements

- Sustainable Operation:
 - Requires minimal water and energy inputs to maintain the microalgae environment.
 - Uses LED lighting in areas with limited natural sunlight to maintain photosynthesis during night-time or cloudy days.

5. Low Maintenance

- Automated Systems:
 - Equipped with automated nutrient delivery and air circulation systems, reducing the need for frequent manual intervention.
 - Nutrients are periodically replenished to sustain the microalgae over time.

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Importance and Sustainability

Why Liquid Trees Matter

- Innovative Urban Solution:
 - Designed for modern cities where traditional greenery is hard to implement due to limited space.
 - Offers an immediate impact on air quality and carbon sequestration.
- Tackling Climate Change:
 - Continuous CO2 Absorption: Microalgae in liquid trees can capture CO2 24/7, providing consistent environmental benefits.
 - Supports global climate goals by reducing carbon emissions in densely populated urban areas.
- Space-Efficient Greenery:
 - Requires minimal space compared to conventional trees, making it ideal for urban landscapes like streets, public squares, and rooftops.



Sustainability Benefits

- Low Resource Consumption:
 - Operates with minimal water and energy use, making it environmentally friendly and cost-effective for long-term urban deployment.
- Adaptability to Harsh Conditions:
 - Thrives in polluted, high-temperature urban environments where traditional trees struggle.
- Scalable Green Infrastructure:
 - Easily integrated into urban planning for both developed and developing cities.
 - Promotes sustainable urban development by addressing air pollution and climate change with a cutting-edge approach.



Global Urbanization Trends and Need for Liquid Trees

Urbanization and Environmental Challenges

- Urban Growth: Over 50% of the global population now lives in urban areas; expected to reach 68% by 2050.
- Challenges: Cities face growing issues such as:
 - Limited space for greenery
 - Air pollution and heat island effects
 - Increasing carbon emissions and poor air quality
- Green Infrastructure Demand: Urban planners seek compact, efficient, and sustainable solutions to:
 - Improve air quality
 - Reduce carbon footprint
 - Create livable, eco-friendly urban environments

Liquid Trees as the Solution

- Compact and Space-Efficient: Ideal for densely populated urban areas with limited space for traditional trees.
- Flexible Installation: Can be deployed in sidewalks, plazas, rooftops, and even indoor environments.
- Year-Round Functionality: Continuous carbon absorption and air purification regardless of environmental conditions.



Global Deployment Potential of Liquid Trees

Key Regions for Liquid Tree Deployment

- Africa:
 - High urbanization rates; cities like Lagos, Cairo, and Nairobi face space and air quality challenges.
 - Liquid trees can address pollution and improve environmental sustainability in fast-growing urban centers.
- Middle East:
 - Cities such as Dubai, Abu Dhabi, and Riyadh are characterized by extreme heat and limited green space.
 - Liquid trees offer solutions for air purification and reducing the urban heat island effect.
- India:
 - Rapid urban growth in cities like Mumbai, Delhi, and Bangalore demands innovative green solutions.
 - Liquid trees can help offset urban carbon emissions, improve air quality, and contribute to national sustainability goals.

Scalability and Impact

- Modular Design: Liquid trees can be installed in a variety of urban environments, from public parks to transportation hubs.
- Sustainability Initiatives: Aligns with global climate goals such as the Paris Agreement and the UN Sustainable Development Goals.
- Global Partnerships: Cities and corporations worldwide can adopt liquid trees to meet their carbon reduction targets and enhance urban livability.



Detailed Comparison of Carbon Absorption Rates

Carbon Absorption by Microalgae vs. Conventional Trees

- Microalgae (Liquid Trees)
 - Absorbs 10–50x more CO₂ per square meter compared to conventional trees.
 - Faster photosynthesis due to simple cellular structure and higher surface area.
 - Can absorb CO₂ continuously, even in controlled urban environments.
 - Microalgae-based systems can absorb up to 2 kg of CO₂ per day in compact installations.
- Conventional Trees
 - Absorb around 22 kg of CO₂ per year (per mature tree).
 - CO₂ absorption fluctuates with seasons, growth phase, and environmental conditions.
 - Slower in urban areas due to stressors like pollution and lack of space.
 - Growth and full CO₂ sequestration potential take years to achieve.

Efficiency of Microalgae in CO2 Sequestration & Large-Scale Potential

Microalgae Efficiency in Continuous CO2 Absorption

- 24/7 CO2 Absorption: Operates in controlled environments, providing continuous carbon sequestration.
- Compact System: Requires minimal space; one liquid tree can replace multiple conventional trees in urban areas.
- Scalability: Microalgae can be cultivated in dense environments, increasing CO2 absorption in areas with limited land.

Potential for Large-Scale Urban Carbon Sequestration

- High Sequestration Capacity: Large-scale deployment in urban centers can offset significant carbon emissions.
- Urban Integration: Ideal for cities with limited green space, helping to achieve climate goals.
- Scalable Infrastructure: Easily expanded through modular setups, covering rooftops, public squares, and building facades.

Comparison of Microalgae-Based Liquid Trees vs Conventional Trees

<u>ASPECT</u>	<u>Microalgae-Based Liquid Trees</u>	<u>Conventional Trees</u>
Space Requirement	Minimal space; ideal for dense urban areasASPECT	Requires significant land and root space
Carbon Absorption	Absorbs 10–50x more CO2 per m²; continuous CO2 capture	Slower CO2 absorption; seasonal and growth-phase dependent
Growth Time	Immediate impact; operational from day one	Requires years to grow and reach full CO2 sequestration potential

<u>ASPECT</u>	<u>Microalgae-Based Liquid Trees</u>	<u>Conventional Trees</u>
Maintenance	Low maintenance; self-contained system	Regular maintenance: pruning, watering, pest control
Environmental Resilience	Thrives in polluted, harsh urban environments	Vulnerable to pollution, soil compaction, and limited water access
Biodiversity Support	Minimal support for biodiversity	Provides habitat for birds, insects, and other wildlife
Aesthetic Value	Modern, innovative design; compact and flexible	Natural, traditional beauty; shade and cooling effects

<u>ASPECT</u>	<u>Microalgae-Based Liquid Trees</u>	<u>Conventional Trees</u>
Installation Costs	Higher initial setup cost, but lower long-term maintenance	Lower upfront cost, but higher long-term care expenses
Urban Integration	Easily integrated into urban infrastructure (buildings, plazas, etc.)	Requires significant modification of urban spaces for planting

Market Potential for Liquid Trees in Africa

Urbanization and Environmental Needs

Rapid Urban Growth:

- Africa is experiencing some of the fastest urbanization rates globally, with urban populations expected to increase by 1.2 billion by 2050.
- Cities like Lagos, Cairo, Nairobi, and Johannesburg face challenges including limited green spaces, high pollution levels, and rising temperatures.

Environmental Challenges:

- High levels of air pollution and carbon emissions in major cities.
- Heat island effect exacerbates urban heat, impacting quality of life and public health.

Opportunities for Liquid Trees

Space Optimization:

- Liquid trees offer a compact, space-efficient solution for urban environments where traditional tree planting is challenging.
- Can be installed in sidewalks, rooftops, and public spaces, maximizing use of available urban space.



Air Quality Improvement

- Provides effective CO2 capture and air purification, addressing critical urban air quality issues.
- Helps cities meet environmental regulations and sustainability goals.

Scalability and Adaptability:

- Modular design allows for scalable implementation across various urban areas, from large cities to smaller towns.
- Adaptable to different climates and urban settings, making it suitable for diverse African environments.

Market Growth Potential

Government and Corporate Support:

- Increasing focus on sustainability and green infrastructure by governments and businesses.
- Potential for partnerships and funding through initiatives aimed at reducing carbon footprints and improving urban environments

Global Initiatives:

- Alignment with international sustainability goals and climate agreements.
- Opportunity to leverage international funding and support for climate action projects.

Content:

- High potential due to rapid urbanization and need for sustainable development
- Addressing issues like deforestation and desertification
- Opportunities in countries focusing on green city initiatives

Market Potential for Liquid Trees in the Middle East

Urbanization and Environmental Challenges

·Rapid Urban Development:

- Middle Eastern cities, such as Dubai, Abu Dhabi, Riyadh, and Doha, are undergoing rapid urban expansion.
- High urban growth rates with increasing demands for sustainable solutions in densely built environments.

Opportunities for Liquid Trees

Adaptability to Harsh Conditions:

- Liquid trees can thrive in extreme temperatures and low water availability, making them ideal for arid environments.
- Efficient cooling: Helps mitigate the urban heat island effect by providing localized cooling.

·Space Optimization:

- Offers a compact and flexible solution for urban areas where space is limited, such as high-density commercial and residential zones.
- Can be integrated into building facades, rooftops, and public spaces.



Air Quality Improvement:

- Provides effective CO2 capture and air purification, addressing critical pollution levels and contributing to improved urban air quality.
- Supports efforts to meet environmental regulations and sustainability goals.

Market Growth Potential

Government Initiatives:

- Governments are increasingly investing in green technologies and sustainable urban planning as part of their climate action plans.
- Potential for public-private partnerships and funding for innovative green infrastructure projects.

Alignment with Vision Plans:

- Aligns with national visions such as Saudi Vision 2030 and UAE Vision 2021, which focus on environmental sustainability and urban development.
- Opportunity to contribute to global climate commitments and enhance the region's sustainability profile.

Market Potential for Liquid Trees in India

Urbanization and Environmental Challenges

•Rapid Urban Growth:

- India's urban population is expected to exceed 600 million by 2031, with major cities like Mumbai, Delhi, Bangalore, and Hyderabad expanding rapidly.
- High density in urban areas creates significant challenges for green infrastructure and air quality.

•Environmental Issues:

- Severe air pollution in major cities due to industrial emissions, vehicle exhaust, and construction dust.
- Heat island effect intensifies urban temperatures, impacting public health and energy consumption.

Opportunities for Liquid Trees

A.Space Efficiency:

- Ideal for densely populated urban areas where space for traditional tree planting is limited.
- Can be installed in sidewalks, rooftops, and building facades, optimizing the use of available space.



- Air Quality Enhancement:
 - Provides efficient CO2 capture and air purification, addressing critical pollution issues and improving overall air quality.
 - Helps cities comply with environmental regulations and contribute to public health improvements.
- Climate Adaptation:
 - Liquid trees offer a sustainable solution to the urban heat island effect, providing localized cooling in hot urban environments.

Market Growth Potential

- Government and Corporate Support:
 - Increasing focus on sustainable urban development and smart city initiatives.
 - Potential for partnerships with government programs and corporate investments in green technologies.
- Alignment with National Goals:
 - Supports India's National Action Plan on Climate Change and commitments under the Paris Agreement.
 - Opportunity to leverage funding and support for urban sustainability projects from national and international sources.
- Growing Awareness and Demand:
 - Rising public and governmental awareness about climate change and the need for innovative green solutions.
 - Increasing demand for sustainable technologies in the urban planning sector.

Commercial Benefits of Liquid Trees

1. Revenue Generation

- Carbon Credit Sales:
 - Potential to generate and sell carbon credits by capturing significant amounts of CO₂, creating a new revenue stream.
 - Aligns with global carbon trading markets and sustainability reporting requirements.
- Product Sales and Service Contracts:
 - Opportunities for contracts with Governments, businesses, property developers and others for installation and maintenance of liquid trees.

2. Cost Efficiency

- Low Maintenance Costs:
 - Minimal upkeep required compared to traditional green infrastructure, reducing long-term operational costs.
 - Automated systems for nutrient delivery and air circulation minimize manual intervention.
- Resource Efficiency:
 - Uses less water and energy than conventional green solutions, making it a cost-effective option for urban areas with limited resources.

3. Brand and Market Positioning

Sustainability Leadership:

- Positions companies and cities as leaders in sustainable development and innovative green technologies.
- Enhances corporate social responsibility (CSR) profiles and aligns with environmental, social, and governance (ESG) criteria.

Enhanced Property Value:

- Installation of liquid trees can increase property values and attract environmentally-conscious tenants and customers.
- Provides a unique selling proposition for real estate and commercial properties.

4. Public and Private Sector Opportunities

Government Grants and Incentives:

- Eligibility for government grants, subsidies, and tax incentives aimed at promoting green technologies.

Partnerships and Collaborations:

- Potential for strategic partnerships with governmental agencies, environmental organizations, and other stakeholders.
- Opportunities for joint ventures and collaborative projects in urban sustainability initiatives.

·5. Market Expansion

·Global Reach:

- o Scalable design allows for deployment in diverse urban environments worldwide.
- o Potential for expansion into emerging markets with growing urban populations and environmental challenges.



Types of Microalgae for Liquid Trees & Cultivation Process

1. Types of Microalgae Used

Spirulina (Arthrospira platensis):

- Efficiency: High CO₂ absorption and nutrient-rich.
- Growth Rate: Rapid growth, suitable for continuous cultivation.
- Resilience: Tolerates various environmental conditions.

·Chlorella (Chlorella vulgaris):

- Efficiency: Effective CO₂ capture and oxygen production.
- Growth Rate: Fast growth, adaptable to different cultivation systems.
- Resilience: Thrives in diverse temperatures and conditions.

·Dunaliella (Dunaliella salina):

- Efficiency: High tolerance to saline conditions, suitable for arid environments.
- Growth Rate: Moderate growth rate, highly productive under optimal conditions.
- Resilience: Adapted to extreme conditions, such as high salinity and temperature.

2. Selection Criteria

Efficiency:

- Ability to absorb CO₂ and produce oxygen efficiently.
- Higher carbon sequestration capacity enhances overall system performance.

Growth Rate:

- Fast-growing microalgae ensure continuous operation and lower cultivation costs.
- Important for maintaining high productivity and system stability.

Resilience:

- Tolerance to environmental stresses, such as temperature fluctuations and nutrient variations.
- Ensures reliable performance in varied urban conditions.

3. Overview of Cultivation and Maintenance Process

Cultivation Process:

- Culture Medium: Microalgae are grown in a nutrient-rich aqueous medium.
- Growth Conditions: Controlled environments with optimal light, temperature, and CO₂ levels.
- Harvesting: Regular collection of microalgae biomass for processing and maintenance of the liquid tree system.

Maintenance Process:

- Nutrient Supply: Automated systems to provide necessary nutrients and maintain optimal growth conditions.
- Cleaning: Periodic cleaning of growth containers to prevent contamination and ensure efficient photosynthesis.
- Monitoring: Continuous monitoring of environmental parameters (pH, temperature, CO₂ levels) to ensure system health and performance.

Application Areas for Liquid Trees

1. Urban Environments

·Building Facades:

- Installation on building exteriors to enhance air quality and provide aesthetic green features.
- Helps in reducing the urban heat island effect and improving building energy efficiency.

·Rooftops:

- Utilized on rooftop gardens and green roofs to optimize space and contribute to carbon capture.
- Provides cooling and reduces roof surface temperatures.

·Public Spaces:

- Integrated into parks, plazas, and sidewalks for effective air purification in high foot-traffic areas.
- Enhances urban aesthetics and promotes environmental awareness.



2. Industrial Applications

·Industrial Facilities:

- Installed near factories and power plants to capture CO₂ emissions and improve local air quality.
- Supports compliance with environmental regulations and reduces industrial carbon footprints.

·Waste Treatment Plants:

- Applied in wastewater treatment facilities to assist in CO₂ capture and improve air quality.
- Enhances the sustainability of waste management operations.



3. Transportation Hubs

- Airports and Train Stations:
 - Deployed in high-traffic areas like airports and train stations to manage air pollution from vehicle emissions.
 - Provides a welcoming environment for travelers and contributes to cleaner air.
- Bus Stops and Transit Centers:
 - Implemented at bus stops and transit centers to reduce vehicle emissions and improve commuter experiences.
 - Helps in creating healthier and more pleasant public transport environments.



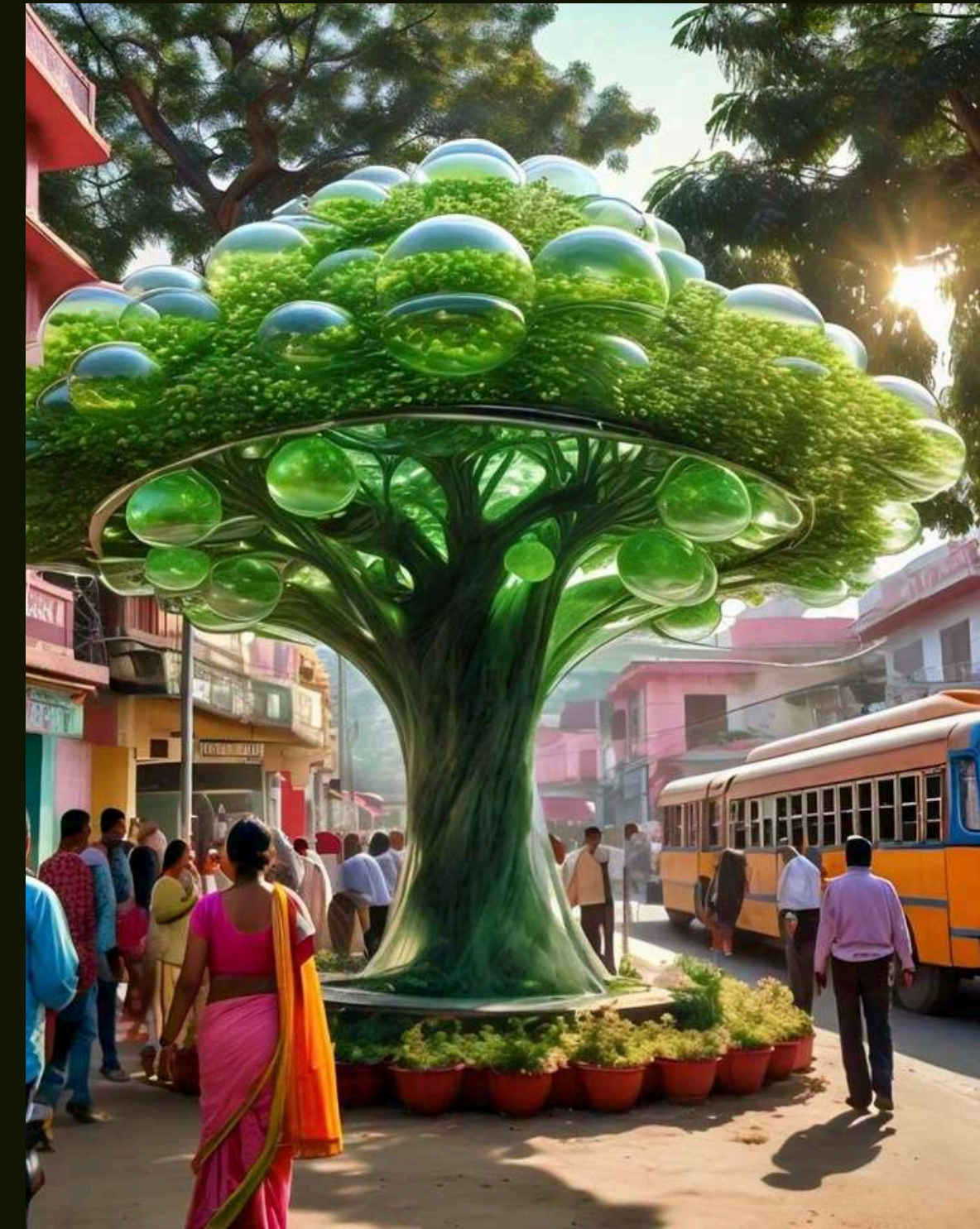
4. Residential Areas

High-Density Housing:

- Installed in residential complexes and apartment buildings to optimize space and enhance air quality.
- Provides private and community green spaces in densely populated areas.

Community Projects:

- Used in local community projects to promote environmental stewardship and improve neighborhood air quality.
- Engages residents in sustainability efforts and urban greening initiatives.



5. Educational Institutions

Schools and Universities:

- Implemented on campuses to educate students about sustainability and environmental technology.
- Enhances the campus environment and contributes to educational programs on climate action.



Future of Liquid Trees Business

1. Technological Advancements

Innovative Designs:

- Development of next-generation systems with enhanced efficiency and integration capabilities.
- Advancements in microalgae strains for improved CO2 absorption and resilience.

Automation and Smart Systems:

- Integration of IoT and AI for real-time monitoring and automated maintenance.
- Use of data analytics for optimizing performance and resource management.

2. Market Expansion

Global Deployment:

- Expansion into new geographic markets with increasing urbanization and environmental challenges.
- Opportunities for partnerships and collaborations in developing and emerging economies.

Diverse Applications:

- Expansion beyond urban settings into industrial sectors, transportation hubs, and residential areas.
- New applications in agriculture, waste management, and climate adaptation.

3. Sustainability and Impact

·Contribution to Climate Goals:

- Supporting global efforts to achieve net-zero emissions and meet international climate agreements.
- Enhancing urban sustainability through innovative green infrastructure.

·Social and Environmental Benefits:

- Improvement in public health by reducing air pollution and providing cooling solutions.
- Promotion of environmental education and community engagement in sustainability initiatives.

4. Business Opportunities

Revenue Streams:

- Growth in carbon credit sales, government incentives, and private investments in green technologies.
- New revenue opportunities from product and service contracts, licensing, and consulting.

Strategic Partnerships:

- Formation of alliances with government agencies, corporations, and research institutions.
- Collaboration on innovation projects and sustainability initiatives.

5. Challenges and Solutions

Scalability and Cost:

- Addressing challenges related to scalability and cost-effectiveness of large-scale deployment.
- Continuous research and development to improve affordability and efficiency.

Regulatory and Market Acceptance:

- Navigating regulatory frameworks and market acceptance for new technologies.
- Building awareness and support through education and advocacy.

THANK YOU

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