

# Olivine Mineral's Breakthrough Initiative in Coastal CO2 Capture, North Carolina

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[/EINPresswire.com/](#) -- In its recent announcement, [Vesta](#) heralds; "Vesta is proud to announce the successful deployment of our Coastal Carbon Capture pilot project in Duck, North Carolina. We estimate this pilot project will remove approximately 5,000 tonnes of carbon dioxide after accounting for its emissions, and it will be extensively monitored by independent third parties. We are excited to advance the world's understanding of the role olivine sand can play in making coasts more resilient while addressing the root cause of climate change".

[Albanian Minerals](#) CEO [Sahit Muja](#) articulated, "Our planet has been generously endowed with essential elements to safeguard Earth, biodiversity, and humanity. Regrettably, the vital triangle of life—air, land, and water, our most precious natural resources—is now under severe threat from pollution." Muja emphasized, "Ocean acidification poses a global menace to oceans, estuaries, and waterways, often referred to as the 'evil twin' of climate change. It presents one of the most significant ecological challenges worldwide, with severe environmental, social, and economic repercussions for ocean industries. Effectively addressing this issue requires a coordinated governance effort."

Presenting a natural remedy to counter ocean pollution, acidity, and mineral depletion, Mr. Muja underscored, "Exploring nature provides invaluable insights into sustainable and harmonious environmental solutions. Over millions of years, nature has honed processes and systems to achieve balance and efficiency. Numerous key principles observed in nature serve as inspiration for environmental solutions."

Continuing, he explained, "Nature underscores the significance of biodiversity in maintaining ecosystem health and resilience. Minerals, forests, and soil act as natural filters, purifying water and air through physical, chemical, and biological processes."



Sahit Muja

Muja detailed, "Replicating these natural filtration mechanisms in engineered systems can offer sustainable solutions for water and air purification. Nature adeptly utilizes renewable energy sources, such as sunlight and wind, in its processes. Prioritizing and advocating for renewable energy solutions, inspired by natural processes, is crucial in reducing reliance on non-renewable resources."

He concluded, "By closely observing and learning from nature, researchers and environmentalists can uncover sustainable and regenerative solutions that respect the intricate balance of ecosystems. Biomimicry, a practice drawing inspiration from nature to address human challenges, exemplifies the potential of applying nature's wisdom to tackle environmental issues," as expressed by Sahit Muja.

Sahit Muja eloquently expressed, "In our pursuit of sustainable solutions, we've unveiled an ingenious approach employing the extraordinary green rock, magnesium silicates, olivine, and a meticulously crafted blend of essential minerals. Our method involves mining these rocks, milling them with eco-friendly energy and practices, employing electric trains and environmentally conscious ships for transportation, and dispersing the grains over targeted environments. This stands out as the most efficient, secure, and cost-effective strategy to combat climate change and the concomitant ocean acidification.

Muja emphasized, "Our groundbreaking product, featuring a high-grade olivine variant, coupled with the utilization of free wave energy in oceans, has the power to convert CO<sub>2</sub> into magnesium carbonates. This mineral combination enriches the ocean with vital elements for sustaining life, fostering the overall health and wellness of biodiversity. Enhanced green rock olivine weathering emerges as a multifaceted solution, addressing atmospheric carbon dioxide reduction, nutrient supply, and the mitigation of ocean acidification."

Contemplating the vast energy potential harbored in ocean waves, which encompass 70 percent of the planet's surface, oceans stand as an abundant source of renewable energy. The estimated potential of ocean wave energy reaches up to an astounding 500 percent of the current global demand for electricity.

Muja underscored the scalability and enduring nature of enhanced green rock olivine weathering, stating, "Achieve the capture of 100% of humanity's annual CO<sub>2</sub> emissions with a mere 0.1 utilization of shelf seas; this represents a permanent and impactful solution. The prolific wave energy inherent in coastal areas accelerates olivine weathering, leveraging the force of waves to crush the rock and expedite the natural carbon dioxide capture process."

Sahit Muja proudly positions Albanian Minerals as the custodian of an unparalleled global mineral reserve, boasting the world's foremost magnesium olivine capable of capturing 100% of global carbon dioxide emissions. This cutting-edge technology, currently in development, assures cost-effectiveness, scalability, and a lasting impact.

At the forefront of innovation, the company pioneers an olivine-based product, securing a crucial mineral blend to address a paramount global challenge and guarantee sustenance for all living biodiversity.

Sahit Muja articulated the advent of cutting-edge technologies currently under development on land and water, promising cost-effectiveness, scalability, and enduring impact.

At the vanguard of innovation, Vesta PBC, Metalplant, and other trailblazers are pioneering an olivine-based product to confront a paramount global challenge and ensure sustenance for all biodiversity.

The magnesium Olivine-based Natural Green Wonder pledges a spectrum of assurances:

- 100% natural composition
- 100% eco-friendly credentials
- 100% effectiveness in enriching soil and water nutrition
- 100% efficiency in CO2 removal, with each ton of olivine eliminating an equivalent ton of CO2
- 100% guarantee of permanent CO2 storage, fostering vegetation growth as magnesium carbonate
- 100% commitment to regulating land, water, and ocean acidity
- 100% dedication to pH equilibrium in terrestrial ecosystems
- 100% assurance of enhanced production and vegetative proliferation
- 100% guarantee against land desertification
- 100% provision of 20 essential minerals crucial for all life forms
- 100% commitment to purifying land and water from toxic metals
- 100% assurance of elevating the quality of the entire food chain
- 100% guarantee of reducing mineral deficiencies
- 100% commitment to improving water quality
- 100% assurance against land degradation and erosion
- 100% dedication to regulating land drainage
- 100% assurance against diseases
- 100% commitment to enhancing nutrition for marine biodiversity
- 100% dedication to boosting energy levels across all forms of life
- 100% commitment to combatting climate change

Sahit Muja passionately declares, "To sustain over 8.1 billion people, hundreds of billions of animals, trillions of sea creatures, and hundreds of trillions of plants, fruit trees, grasses, vegetables, and more, Albanian Minerals diligently works to introduce globally this marvel of green olivine—a mineral combination poised to become one of the greatest natural supplements of the future. This extraordinary wonder is the cornerstone of every living entity, a fundamental building block of the 21st century—a beacon for a new world."

David Greenberg

Green Innovation News

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