

Unveiling carbon-negative green nickel farming and significant CO2 sequestration

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/EINPresswire.com/ -- [Metalplant](https://metalplant.com/process/) Emerges from Stealth, Unveils Groundbreaking Technology: Fusing Nickel Phytomining and Enhanced Olivine Rock Weathering for Eco-Friendly Nickel Production and Significant CO2 Sequestration. <https://metalplant.com/process/>

To delve into the intricacies of this groundbreaking technological leap, there was the privilege of consulting [Sahit Muja](#), the esteemed Executive Director and Co-founder of Metalplants. Mr. Muja elucidated Metalplant profound reverence for the altruistic spirit and environmentally conscious principles that guide individuals.



The Metalplant co-founders Laura Wasserson, Eric Matzner and Sahit Muja together with the farming team on location in Albania.

Embarking on its journey years ago in the United States, Metalplant meticulously assembled a cadre of eminent scholars spanning the fields of agromining, chemistry, and environmental engineering, drawn from prestigious academic institutions worldwide. The overarching mission was to unlock the inherent potential of 100% organic solutions, harmonizing the formidable capabilities of hyperaccumulating flora with cutting-edge green magnesium olivine technology.

Mr. Muja expressed, "Studying nature yields invaluable insights into sustainable and harmonious environmental solutions. Nature, honed over millions of years, has perfected processes and systems to achieve equilibrium and efficacy. Here are some pivotal principles observed in nature that inspire environmental innovation: biodiversity is paramount for preserving ecosystem vigor and adaptability. Minerals, forests, and soil serve as natural filters, purifying water and air through physical, chemical, and biological means. The magnesium-based olivine has sequestered CO2 via enhanced weathering—each magnesium ion capturing two CO2 ions, albeit at a typically gradual pace."

"The Metalplant team has accelerated this process by optimizing conditions for rapid reactions: finely crushing green olivine minerals, exposing them to water and varying temperatures, and cultivating authentic hyperaccumulating plants. This groundbreaking endeavor represents a milestone in the green revolution. The conversion of CO₂ into magnesium carbonates, alongside other natural processes converting it into sugars, vitamins, and facilitating the eco-friendly removal of heavy metals, repurposed for batteries and green energy transition, offers a holistic and sustainable solution. The gradual dissolution of magnesium olivine in seawater not only enriches biodiversity with essential minerals but also mitigates ocean acidity while permanently converting carbon dioxide into valuable substances."

"Emulating these natural filtration mechanisms in engineered systems can offer sustainable solutions for water and air purification from CO₂. Nature capitalizes on renewable energy sources like sunlight and wind in its natural processes. Investing in and championing renewable energy solutions inspired by nature is pivotal for reducing dependence on non-renewable resources."

"Through diligent observation and emulation of nature, researchers and environmentalists can unearth sustainable and regenerative solutions that honor the delicate equilibrium of ecosystems. Biomimicry, a practice rooted in drawing inspiration from nature to tackle human challenges, epitomizes the potential of applying nature's wisdom to address environmental concerns," Mr. Muja said.

Sahit Muja elaborated, "We stand at the forefront of this transformative shift, establishing the world's largest plantations of their kind in Tropoje, Albania. This monumental undertaking has yielded unprecedented success, not only in the sequestration and perpetual containment of substantial volumes of CO₂ within its natural habitat but also in catalyzing the generation of carbon-negative nickel. Furthermore, this pioneering innovation has catalyzed the rejuvenation of barren landscapes, created employment opportunities, and facilitated soil purification by effectively eliminating harmful heavy metals. Remarkably, the potential of this groundbreaking technology is limitless, with the capacity to remove an astounding one trillion tons of CO₂ from the atmospheric milieu."

In the face of shifting weather patterns, rising sea levels, and escalating extreme weather events, the specter of climate change looms large as one of humanity's most urgent challenges.

In both 2023 and 2024, the world witnessed a succession of catastrophic climate disasters, including unprecedented heatwaves, storms, floods, and wildfires. With over 1 trillion tons of extra CO₂ suffocating the atmosphere, the planet is in severe danger. Amidst this crisis, the pivotal role of carbon capture technologies becomes paramount—a crucial call to society.

Fortunately, some of the world's wealthiest individuals are stepping up, using their financial influence to support climate solutions. This palpable shift is exemplified by the proactive

involvement of the top 10 billionaires worldwide in the fight against climate change.

Bill Gates, with a staggering net worth of \$153 billion, emerges as a leading advocate for climate action and clean technology investment. Here are key highlights of his contributions: Gates plays a central role in steering the Breakthrough Energy Ventures fund, a cornerstone of the broader Breakthrough Energy Group. This fund strategically allocates resources to innovative and sustainable technologies poised to tackle climate change head-on. His climate fund has set an audacious target of mobilizing \$15 billion into clean technology, underscoring his unwavering commitment to advancing clean and sustainable solutions.

Jeff Bezos, boasting a net worth of \$208 billion, has embarked on a laudable crusade against climate change, marked by a monumental pledge of \$10 billion for initiatives solely dedicated to addressing this formidable challenge. Michael Bloomberg, with a net worth of \$106 billion, emerges as a stalwart champion for climate action, spearheading the "Beyond Carbon" campaign with unwavering determination to reshape the United States' energy landscape.

Irish billionaires Patrick and John Collison, with a combined net worth of \$15 billion, are making significant strides in combating the climate crisis through their Stripe Climate fund, which channels resources toward supporting startups devoted to impactful climate solutions.

In a remarkable act of philanthropy, Jeremy Grantham, with a net worth of \$1 billion, has pledged 98% of his wealth to the Grantham Foundation for the Protection of the Environment, specifically targeting climate action.

Swiss entrepreneur and philanthropist Hansjörg Wyss, boasting a net worth of \$4.8 billion, has committed \$1 billion to preserving the planet, focusing on conserving Earth's land and supporting global conservation efforts.

Mark Zuckerberg, boasting a net worth of \$183 billion, has earmarked \$44 million for climate solutions through his philanthropic organization, complementing Meta's commitment to achieving net-zero emissions by 2030.

Elon Musk, with an impressive net worth of \$189 billion, is deeply committed to carbon removal, as evidenced by initiatives like the XPrize competition, offering \$100 million in support. As one of the world's most renowned entrepreneurs, Musk's groundbreaking contributions, such as Tesla's pioneering advancements in electric vehicles and renewable energy, are leading the charge for positive change in the business world. Musk's focus on battery development is evident, with his recent call for increased nickel production. Notably, Metalplants Company has achieved a remarkable milestone by producing green nickel with negative CO2 emissions, marking a significant stride toward a sustainable future, particularly considering that nickel production is among the most polluting and environmentally degrading processes.

Sahit Muja, with a net worth surpassing \$3.5 billion, has emerged as a leading proponent in the

global business and technology sphere, advocating for innovative solutions in clean energy and environmental sustainability. With a forward-thinking approach, Muja spearheads investments in green innovation, pioneering initiatives in CO2 capture, and addressing water and land pollution. Notably, as the Co-founder of Metalplant, he is instrumental in transforming green nickel production.

In his capacity as the Chairman and CEO of influential enterprises like Global Mining, Green Minerals, and [Albanian Minerals](#), Sahit Muja wields significant influence in the realms of business, investment, and groundbreaking technologies on a global scale. His impact spans diverse sectors, including mining, metals, minerals, oil, natural gas, renewable energy, and innovative green technologies.

Muja's strategic investments in mining have led to remarkable geological discoveries, uncovering over 1 trillion tons of valuable minerals worldwide. Currently, he holds the world's largest magnesium olivine reserves, renowned for their exceptional quality, and one of Europe's largest chrome ore reserves. Furthermore, Muja's portfolio includes substantial reserves of nickel, cobalt, gold, silver, copper, platinum, palladium, aluminum, iron ore, manganese, and Rare Earth Minerals, underscoring his commitment to sustainable resource development.

Bernard Arnault currently holds the title of the world's wealthiest individual, boasting a staggering net worth of \$223 billion. Bernard Arnault, the chairman and CEO of LVMH Moët Hennessy Louis Vuitton SE, has demonstrated a growing commitment to addressing climate change and promoting green energy initiatives within his conglomerate and beyond. LVMH has implemented various sustainability measures, including reducing greenhouse gas emissions, improving energy efficiency in their operations, and increasing the use of renewable energy sources.

Arnault has emphasized the importance of environmental stewardship and sustainability in LVMH's business practices. The company has set ambitious targets to reduce its carbon footprint and minimize its impact on the environment. Additionally, LVMH has invested in renewable energy projects and sustainable practices across its supply chain.

Moreover, Bernard Arnault has been vocal about the need for collective action to combat climate change. He has supported initiatives aimed at promoting renewable energy adoption, advocating for policies that encourage sustainability, and collaborating with other organizations to advance environmental goals.

Arnault's commitments on climate change and green energy reflect a growing recognition within the business community of the urgent need to address environmental challenges and transition towards a more sustainable future. His leadership in this area underscores the role that businesses can play in driving positive change and fostering a more sustainable economy.

Sahit Muja

Green Innovation News

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