

## Vesta is turning shorelines into carbon-removing powerhouses

Vesta protects coastlines and amplifies the ocean's natural ability to absorb CO<sub>2</sub>. Vesta adds a carbon-removing mineral, olivine, to sand at shorelines, where it reacts with seawater to simultaneously reduce acidity and increase its capacity to durably remove CO<sub>2</sub>. By mimicking and vastly accelerating Earth's natural rock weathering process, Vesta's "Coastal Carbon Capture" is an ideal solution to help the shoreline-protection

industry and ocean-based communities become more climate resilient.

Together with Elemental, Vesta has embarked on its second U.S. project — open sourcing its science to ensure the industry learns and grows alongside the adoption of this nature-based solution, and working closely with the local community to shape the adoption of this technology.



“For climate solutions to really scale, we know that both climate and community have to win. That’s why we’ve embedded this principle into our DNA since the very beginning”

— Vesta President and Co-Founder Kelly Erhart



## Status Quo

# 60M tons

of sand deployed each year to restore and protect beaches in the U.S., a largely untapped opportunity to sequester CO<sub>2</sub> from the atmosphere.<sup>24</sup>



Elemental Excelerator

## Progress Unlocked

# 500 tons

of CO<sub>2</sub> to be removed from the atmosphere by Vesta's project site in South Hampton, NY (equivalent to more than a million miles driven by the average gas-powered vehicle).<sup>25</sup>

# 14x

increase in scale from Vesta's first pilot to its second pilot, being deployed in partnership with Elemental in 2024.

