

PNO Rental

# Climate investment portfolio

Patch × Normative

Total investment

# 271.10 tons

1 ton = 1 credit



**Running tide kelp  
sequestration**

59.64 credits



**greenSand Olivine  
Enhanced Weathering**

77.26 credits



**HUSK Biochar**

73.20 credits



**Carbon Cure Concrete  
Mineralization**

61.00 credits

# Running Tide Kelp Sequestration

Growing and sinking kelp forests, which can store up to 20 times more carbon per acre than land forests.

Running Tide is harnessing the power of the ocean to build a climate positive future. Oceans represent two-thirds of the Earth's surface and have an understated role to play in the future of our life on Earth. Coastlines that were once abundant ecosystems are now closer to empty wastelands facing ecologic and economic collapse. At Running Tide, we have experienced this firsthand, and we know the problem won't solve itself. That's why we are building technologies to accelerate and scale the naturally restorative benefits of the ocean.

Kelp removes CO2 from the ocean as it grows (20x faster than trees!). We are building the most efficient carbon removal system in the world by scaling this natural process. Our solution relies on photosynthesis, ocean currents and gravity to remove and store carbon in the deep ocean. Our system offers permanent, scalable carbon removal at low cost and without high land use.

Location: Maine - United States



## Highlights

- +Pioneers new technology +Supplier operational 3-5 years
- +Project operational 1-3 years



## Kelp farming

Kelp is growing and sequestering carbon via photosynthesis. Once the kelp has matured, project developers will sink kelp into the deep sea, where low oxygen concentrations prevent carbon from escaping.

# greenSand Olivine Enhanced Weathering

Using olivine, a mineral that naturally absorbs the CO<sub>2</sub> in rainwater, to permanently remove carbon from the air.

greenSand removes CO<sub>2</sub> from the atmosphere by harnessing the natural weathering process. Olivine, a mineral found all over the world, is ground up and used on pathways, parking lots, and railway lines. There, through reactions with rain and the ambient air, bicarbonate solutions are formed that lead to the safe and permanent storage of CO<sub>2</sub> in limestone on the seafloor. greenSand has a unique tracking system whereby each tonne of CO<sub>2</sub> purchased has a unique identifier linking it to the specific location where the olivine is located.

Location: North Holland - Netherlands



## Highlights

- +Female or minority-led supplier
- +Supplier operational 10+ years
- +Project operational 10+ years
- +Pioneers new technology



## Enhanced Weathering

Carbon-absorbing minerals are being crushed and distributed across the world

# Husk BIOCHAR

Creating biochar-based fertilizers that lock away carbon for 1000+ years, while boosting harvest yields by as much as 40%.

HUSK is the leading producer of biochar, carbon-based fertilizers, and natural pesticides for smallholders. Biochar is a pure, high-carbon form of charcoal made from plants, which improves soil quality and increases crop yields by enhancing water holding capacity, nutrient uptake, and fertilizer efficiency, as well as by stimulating microbial activity in the soil—all while sequestering carbon. HUSK's first installation in Cambodia produces biochar and sequesters carbon using pyrolysis in a rice mill, transforming an undervalued byproduct of the rice industry into effective and affordable agricultural inputs for smallholders. The result has been a 40% average increase in crop yields, which means higher revenue for farmers as well as a reduction in chemicals and irrigation costs.

Location: Phnom Penh - Cambodia



## Highlights

- + Improves community environmental literacy
- +Female or minority-led supplier
- +Supplier operational 3-5 years
- +Pioneers new technology



## Biochar

Waste biomass is being heated and converted into biochar. The stable biochar is then distributed to agricultural landowners and applied on farmland.

# CarbonCure Concrete Mineralization

Injecting CO<sub>2</sub> into cement to make super-strong low-carbon concrete.

CarbonCure's carbon dioxide removal (CDR) technology offers permanent, verifiable, and scalable carbon reductions for the concrete industry. The retrofit technology is installed in hundreds of concrete plants globally, and the company is continuing to launch new innovative products and technologies. CarbonCure's technology won the grand prize in the \$20 million NRG COSIA Carbon XPRIZE competition, selected as the most scalable breakthrough technology to convert CO<sub>2</sub> emissions into usable products. CarbonCure was also recognized as Cleantech Group's North American Company of the Year in 2020.

Location: Nova Scotia - Canada



## Highlights

- + Operates in multiple countries
- + XPRIZE Carbon Removal finalist
- + Supplier operational 10+ years
- + Pioneers new technology



## Concrete injection

Captured CO<sub>2</sub> is being injected into concrete mix and is undergoing mineralization to become permanently embedded in the concrete.