

The Climate and Consumer Opportunity of Blue Foods

July 19th, 2023

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THANK YOU TO OUR DONORS

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THANK YOU TO OUR DONORS!

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Vanguard Renewables

Whole Foods Market

Wildway

WishGarden Herbs

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SPEAKERS



Courtney Pineau Executive Director, Climate Collaborative



Sam GarwinDirector of Market Development,
GreenWave



Courtney Boyd MyersFounder & CEO,
AKUA



Sophie EganDirector of Strategy,
Food for Climate League





A World of Aquatic Foods Resources

Empowering chefs, foodservice professionals, and healthcare professionals in promoting bivalves and sea vegetables

Climate Collaborative Webinar:

The Climate and Consumer Opportunity of Blue Foods









About Us

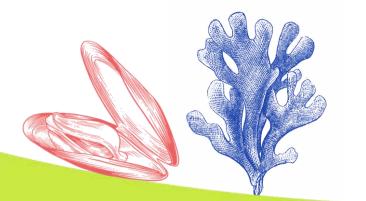


FOOD+ PLANET

We are a collective, visionary 501c3 aimed at empowering health professionals to be leaders in sustainable food systems. We envision a science and practice of nutrition that honors nature as the foundation of health through the four dimensions of sustainability.



We are a trailblazing, women-led 501c3 research collaborative working to make climate-smart eating the norm. We create toolkits, programs, and campaigns—founded in original behavioral science research—that connect sustainable food culture to people's diverse needs, values, and cultures.



The Project Team



Kate Geagan MS, RD Co-Founder, F+P



Sherene Chou MS, RD Co-Founder, F+P



Chris Vogliano PhD, RD Co-Founder, F+P



Sharon Palmer MSFS, RD Co-Founder, F+P



Eve Turow-Paul Founder & Executive Director, FCL



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Sophie Egan, MPH
Director of Strategy
FCL

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FCL Research
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Contributors

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Project Overview

Project Vision

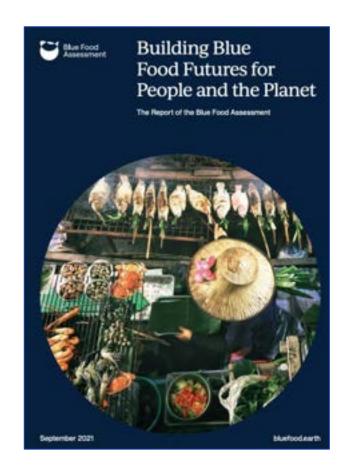
With **funding from Builders Initiative**, the 501(c)3 nonprofits Food for Climate League and Food + Planet developed **evidence-based narratives and nutrition resources to drive demand** for sustainable and nutritious aquatic foods, namely bivalves and sea vegetables.

These **tested narratives** serve a diverse ecosystem of organizations and stakeholders across the food system, including foodservice, culinary, health professional and retail sectors.



The Time for Aquatic Foods is Now

- Key climate solution to help meet the 2030 <u>Sustainable</u> Development Goals.
- Help address widespread **nutritional needs** and **climate goals** and drives **culinary innovation**. Win-win for people and the planet.
- Help us shift towards healthy, equitable, sustainable food systems.
- Connect seamlessly to today's top food trends, be it plant-based eating, protein-rich diets, immunity-boosting foods, or climatesmart eating.



Aquatic Foods Connect Tradition and Innovation



Farming and harvesting the seas while restoring local ecosystems is by no means a new practice.

Indigenous communities around the world have been sustainably harvesting and farming coastal environments for thousands of years. Bivalves, fish, and seaweed have a long history of being cultivated for use in food, medicine, ceremonies, and coastal protection.

Together we can create a healthy, tasty, and planet-friendly food future.

Let's dive into this bountiful opportunity!

Project Overview 10

Research Methodology



academic papers reviewed 184

organizations engaged with bivalves and sea vegetables analyzed 28

trend reports reviewed



health professionals interviewed



healthy dietary patterns for compatibility assessed 1.5K

eaters surveyed and interviewed

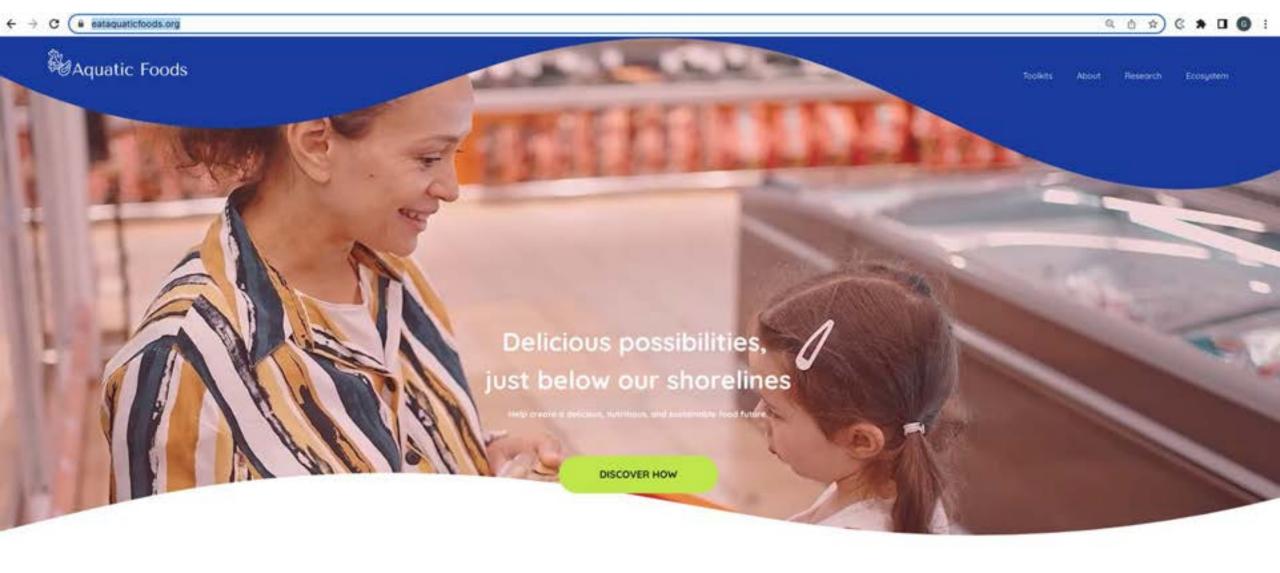


leverage for cutting-edge ethnographic insights

200K

people reached via social media

Project Overview 11



A World of Aquatic Foods Resources

Toolkit for Health and Nutrition Professionals

A Guide to the Wonderful World of Sea Vegetables

Learn more about the cultivation and qualities of commonly available sea vegetables.^{1,4}

What are Sea Vegetables?

Also called seaweeds, sea greens, sea plants, or "greens from the sea," sea vegetables are a vast, diverse group of edible marine algae and plants that grow in or near the ocean, as well as rivers and lakes.





Dulse (Palmaria palmata)

First harvested in Scotland and iceland thousands of years ago; today grown in Northern Atlantic and Northern Pacific

Red (can be crimson, purple, or red-brown) seaweed with smooth fronds and palmlike shape of palmaria family. Provides a rich salty and savory flavor.



Hijiki (Sargassum fusiforme)

Harvested along racky shorelines of China, Japan, and Korea

Leafy brown sec algae which is boiled and dried, giving an appearance of small black twigs. Delivers rich savory flavor with hints of earthy mushroom.



Kelp (Alaria, Saccharina)

Cultivated in waters of Pacific Northwest and shorelines of New England

Brown marine algae of which there are nearly 30 edible varieties including sugar, bull, winged, skinny, and ribban kelp. Delivers nich umami flavor.



(Lominoria)

Traditionally, cultivated in Japan, also today in Northern Atlantic and along the coasts of Alaska and Washington

Mature brown algoe that's a type of kelp. Typically available in dry, wide strips, rich in glutamic acids that give a deep umami flavor. Key flavor building ingredient in Japanese dash (broth).



Nori, Laver (Porphyro)

Cultivated historically in East Asia, and recently in North Atlantic Ocean

Deep purplish-red algae, which turns dork green or brown after drying, toasting, and pressing into thin sheets; Sweet, mild nutty toste with savory notes.



Ogonori, Sea Moss (Gracilaria)

Many varieties across Canada, Maine, British Isles, East Asia, Caribbean, and Hawaii, cultivated in Hawaii, California, and Florida

Although not technically a "mass," this fluffy sea algoe clings to rocks, growing just a few inches high. Fresh has a slightly salty flovor, while dried is the key ingredient in agar, used widely in Asian desserts and plant-based gelatin alternatives.



Sea Lettuce (Ulva)

Widely distributed across the world; commercially grown in California and Florida

Bright green, very fine marine algae which can grow with a ruffle-edge ("lettuce"), flat, or ribbon shape; has a soft, sorrellike flavor.

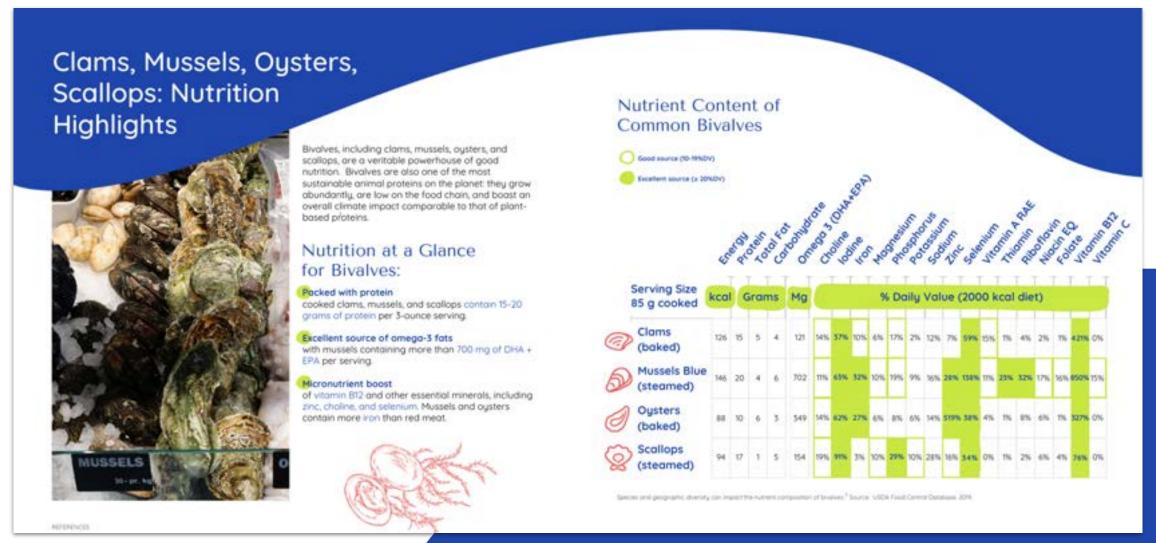


Wakame (Undorio)

Notive to many coastal areas, including China, Korea, and Japan; cultivated for centuries in Japan

Dark green fronds when rehydrated with a subtily sweet flavor and silky texture.

Toolkit for Health and Nutrition Professionals



Toolkit for Health and Nutrition Professionals



Clam Noodles with Crispy Shallots

Clams are the perfect pairing for pasta, along with crispy shallots and an herbal ginger-soy sauce. Affordable, delicious, and packed with protein, this recipe can be the star of your meal.





Ingredients:

Crispy shollets:

3 tablespoons canola oil

2 shallots, peeled and thinly sliced crosswise, about 1/16-inch thick or the thickness of a quarter (see Notes)

% teaspoon salt.

Noodles with clams:

5 ounces dried linguine or spaghetti pasta

1-inch piece of ginger, peeled, cut into thin strips

2 cloves garlic, peeled and thinly sliced

X fresh serrano chili pepper, seeded, thinly sliced

12 ounces frozen cooked clams, defrosted (or 1 pound of fresh/frazen clams or mussels in the shell) 2 tablespoons say sauce, reduced sodium

5 sprigs fresh cilantro, leaves and stems, roughly chopped (about 2 tablespoons)

1 teaspoon sugar



Seaweed Caesar Salad

This satisfying, flavorful salad is brimming with health benefits and nutrition by way of two types of seaweed (kelp and nori), along with leafy green vegetables, and healthy fats. Simple and rustic, but saturated with tastes and textures, this salad is the perfect compliment for any meal, from soup to sandwiches.





Ingredients:

Seaweed Coesor Dressing:

¼ cup raw cashews

Boiling water

¼ cup plant-based milk*

1 tablespoon tahini

% lemon, juiced (1 tablespoon)

% tablespoon Dijon mustard

% tablespoon capers, rinsed, drained

1 tablespoon nutritional yeast

% teaspoon sea kelp flakes seasoning

1 gartic clove

% teaspoon black pepper

Solod:

1 large (1 pound) bunch romaine lettuce, chopped 5 tablespoons capers, rinsed, drained

% cup chopped non seaweed

1 cup croutons

1/2 cup vegan or regular Parmeson cheese

CPG and Foodservice Toolkits for Sea Vegetables

Top 3 Messaging Themes





SUSTAINABILITY



VERSATILITY





+89%

Eaters' interest in sea vegetables is poised to grow by 89% in the next 1-2 years, moving sea vegetables into mainstream acceptance.

MotivBase. 2022.

CPG and Foodservice Toolkits for Sea Vegetables

Top 3 Tips

Compare them to land-based vegetables.

Visually present them as convenient everyday foods.

Call seaweeds sea vegetables.



Stacked Sea Veggie Burger Grilled superfood patty layered with avocado, fresh tomato and crunchy sprouts.



33%

of U.S. eaters surveyed say they don't consume sea vegetables because they're simply unaware of them.

Maine Aquaculture Innovation Center. n.d.

Ecosystem



Toolkits About Research Ecosystem

Ecosystem

This network map is intended as a living platform to reflect the passionate, growing ecosystem of supporting the movement for sustainably produced aquatic foods.

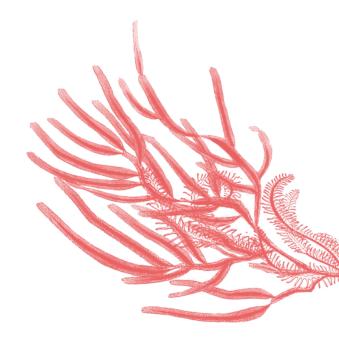
Our communications toolkits aim to support the existing ecosystem of diverse stakeholders we bivalves and sea vegetables. Our intention is to equip these colleagues—from entrepreneurs and to ocean farmers and food service professionals, from NGO leaders and think tank experts to inversearchers—with tested messages and narrative strategies to make their own marketing and coeven more resonant with their target audiences.

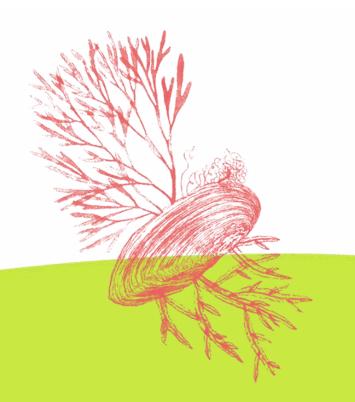
Hover over elements within the ecosystem to the right to see connections by region and use the I which type of products each stakeholder focuses on. You can also use the drapdown filters at the window to see only certain types of stakeholders or product types at a time—or, switch from "Sta View" to see stakeholders as points on the world map. (Note: make sure all regions are clicked at geo view window).





Thank You!









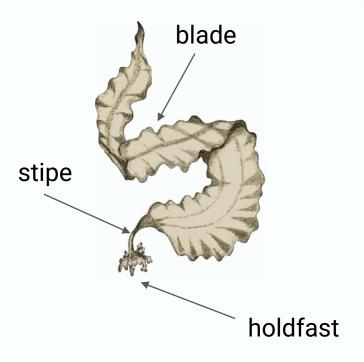
Bringing Kelp from Sea to Table

The opportunity for CPGs to build a new, blue economy









A seaweed primer

- 1. Seaweed belongs to the *algae* family
 - How big is it? (macro vs. micro)
 - Where does it grow? (fresh vs. salt water)
 - What color is it? (green, red, or brown)

Seaweed \rightarrow saltwater macroalgae Kelp \rightarrow a family of brown seaweed

CO₂+ energy glucose formation **Photosynthesis**

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1. Seaweed absorbs carbon dioxide faster than any land-based plant

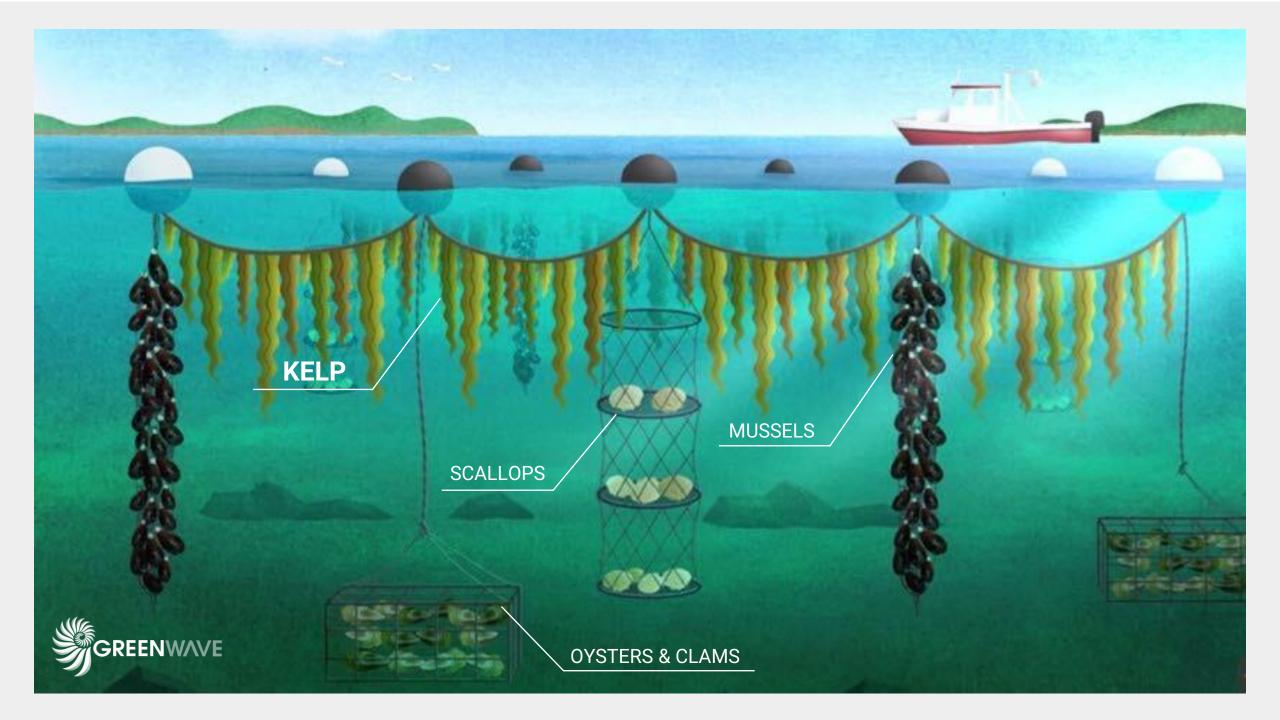
CO₂+ energy glucose formation **Photosynthesis**

A seaweed primer

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Seaweed \rightarrow saltwater macroalgae Kelp \rightarrow a family of brown seaweed

- 1. Seaweed absorbs carbon dioxide faster than any land-based plant
- 2. Seaweed is the foundation of the ocean ecosystem



Farmed kelp is the most sustainable crop on earth



freshwater



fertilizer



arable land



absorbs CO2



superfood



rebuilds ecosystems



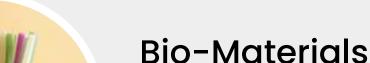
income diversification

High margin, low volume

One crop, Many uses

Low margin, high volume





Food

Coatings & films

Ingredients

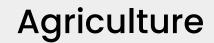
Nutraceuticals

Seasonal fresh crop

Value-added products

- Packaging
- Fabrics & textiles





- **Animal supplements**
- **Bio-stimulants**





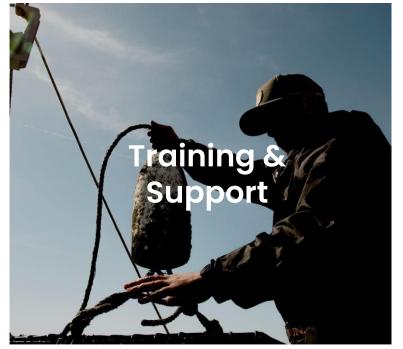




We train and support regenerative ocean farmers in the era of climate change.

Goal: Train 10,000 farmers by 2030











Program Areas

GreenWave identifies barriers to growth, develops solutions, and disseminates best practices back to the field through four program areas

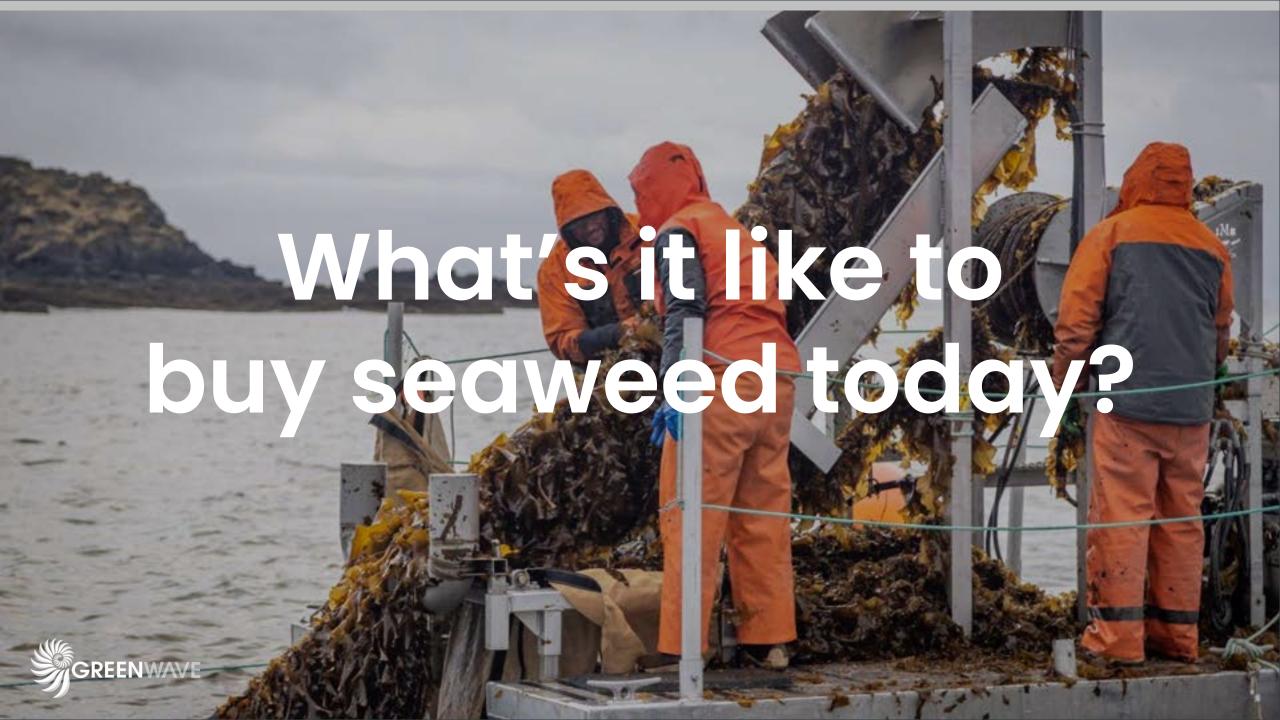




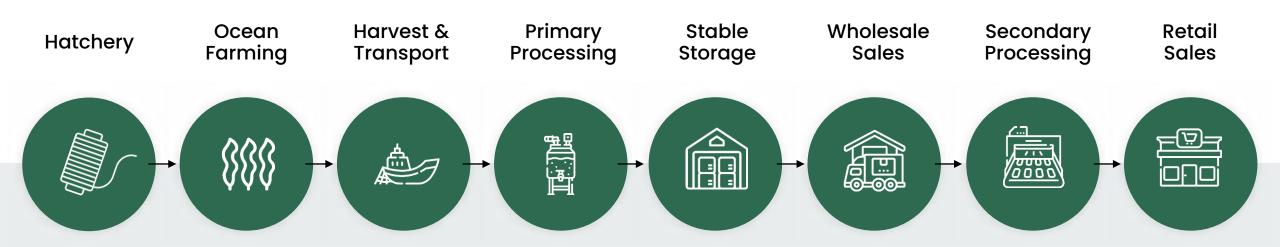
We work alongside ocean farmers, processors, and buyers to coordinate supply and demand for seaweed, shellfish, and the ecosystem services provided by these crops.

Our goal is to support the evolution of an equitable, diverse, and transparent value chain.





The Seaweed Value Chain









25-50 networked farms



Land-based hatchery and processing hub

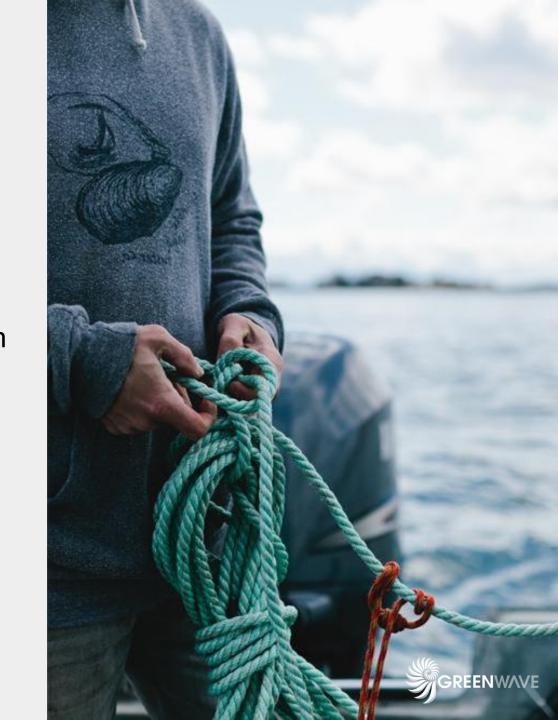


Values-aligned start-ups, CPG companies, and institutional buyers



Purchasing Landscape

- ~5 relatively small, partially vertically integrated companies contract, process, and sell most of the farmed seaweed in the US
- Independent farmers are eager to form direct relationships with buyers, but a third party is often needed to support with processing
- Because of the long annual growing season, forward contracts are critical to secure supply
- Availability of certain formats (dried) is currently limited due to processing bottlenecks
- Food safety regulations, quality standards, and testing protocols are actively under development



Early CPG kelp innovators











barnacle















Unlock new flavors, textures, and health benefits.

With just a 5-20% inclusion:

- Enhance flavors by harnessing umami without salt
- Boost micronutrients, including: vitamins C, K, E, A, B-12, antioxidants, iodine, iron, zinc, magnesium, calcium, and omega-3's
- Create vegetarian and vegan foods with moist textures and craveable flavors
- Harness nutraceutical effects including blood sugar regulation, anti- inflammatory properties, gut health, and brain health



2. "Replace and displace" to reduce climate impact

Review your product portfolio to see if seaweed can replace ingredients that:

- Are produced fossil fuel intensive production methods
- Require large amounts of water or arable land
- Depend on practices that negatively impact soil health, water or air quality
- Negatively impact quality of life in communities where they are produced



3. Build a regenerative, equitable industry from the ocean up

How might we...



Weave social justice into the fabric of the ocean economy?



Ensure that everyone in the value chain is equitably compensated?



Scale through replication, rather than consolidation?



Innovate through collaboration in addition to competition?



Maintain values-alignment throughout the supply chain?

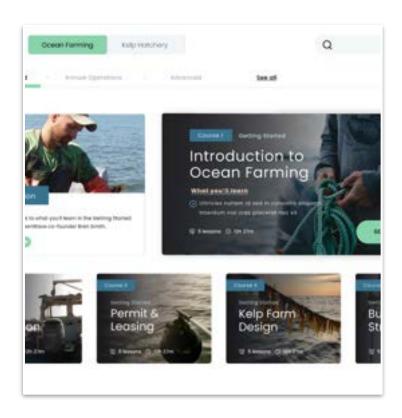


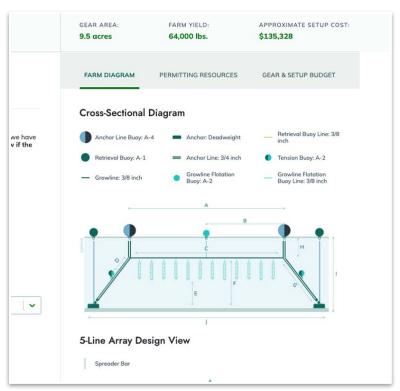


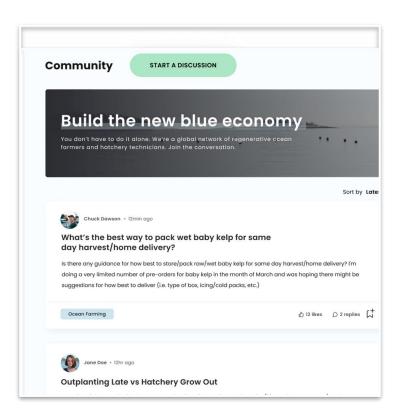
The Ocean Farming Hub

Scaling training & support for the kelp value chain

















Sample Program

Species: Sugar kelp, bull kelp (limited)

Provenance: Alaska, USA

Seasonality: Annual harvest each April-May

Flavor: Umami, salty, delicately vegetal

Format: Fresh-frozen, vacuum sealed

Handling: Store frozen, refrigerate to thaw,

use within 2 days of defrosting

Sizes: 5 or 10 lbs

Recommended Applications:

soups ferments

smoothies pickles

sauces toppers

dressings meal kits

seasonings plant-based proteins



INGREDIENTS: Bull kelp (Nereocystis)

ALLERGENS: May contain trace amounts of shellfish

FLAVOR PROFILE: Savory, salty, delicately vegetal

FORMAT: Fresh-frozen, vacuum sealed

SHELF LIFE: Store frozen for up to 1 year

HANDLING INSTRUCTIONS: Store frozen, refrigerate to thaw, keep refrigerated and use within 2 days of defrosting

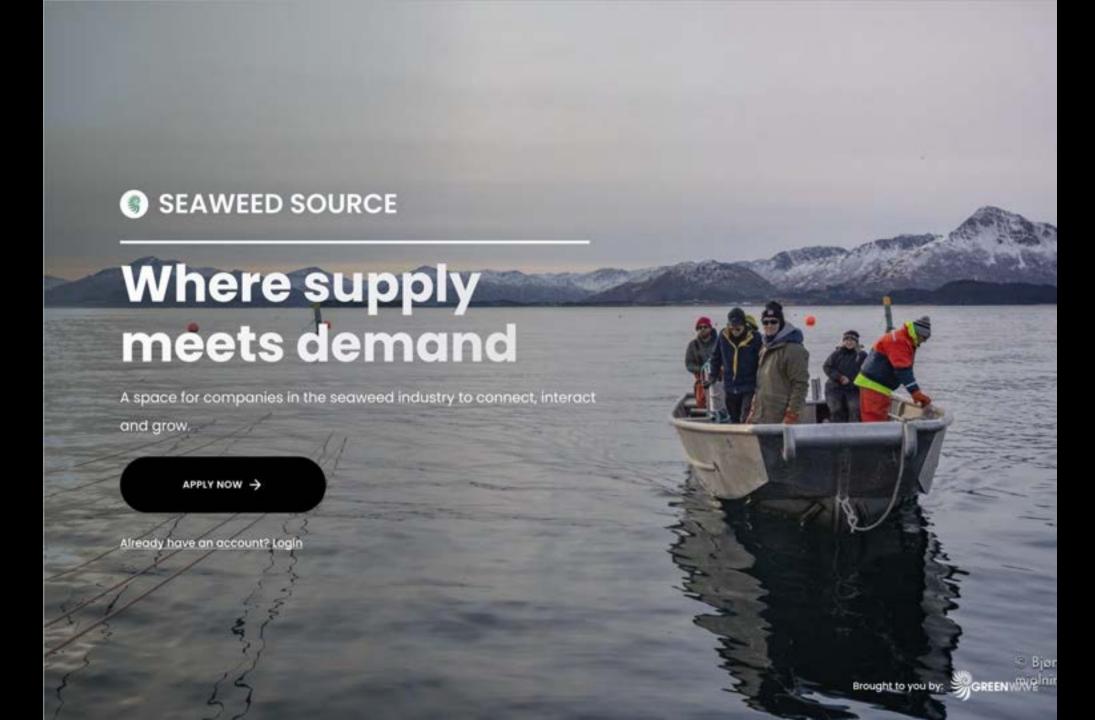
APPLICATIONS:

Stipes - pickles, ferments, toppers, salsas Blades - soups, smoothies, sauces, dressings, seasonings, chips





← Sign up here!



7

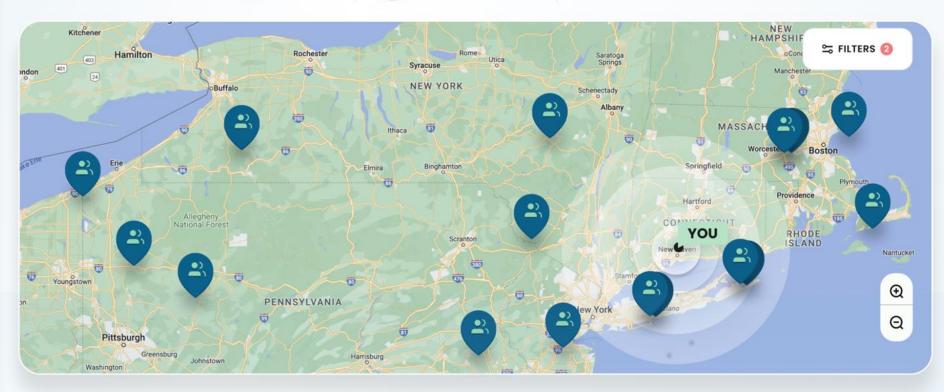
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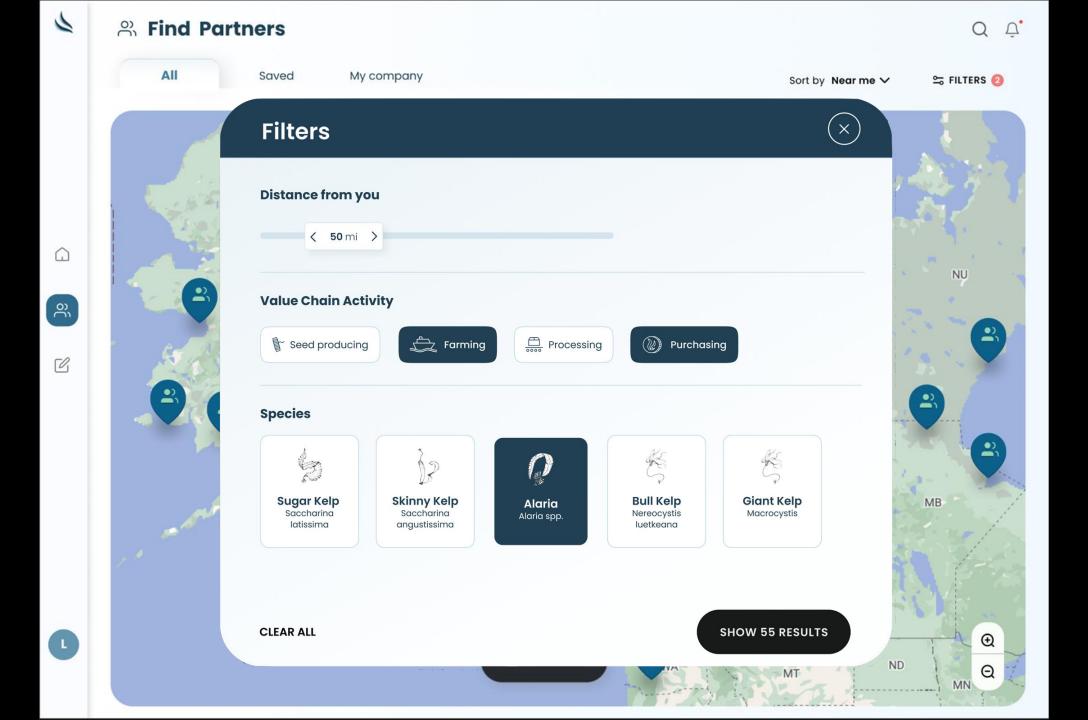




Need help finding a supplier or making a sale?

We're here to support you in expanding your network and growing your business.

CONTACT NOW





Blue Evolution company description copy

What we do



Grows Seaweed



Processes Seaweed

Available Seaweed

© capacity 50-70K wet lbs annually



Sugar Kelp Saccharina latissima



Skinny Kelp Saccharina latissima



Wakame Scientific name



Company Details



Founding Year 2017



Farm Size 1.5 Acres

Ac viverra nulla fermentum sagittis. Maecenas vitae vestibulum nunc vulputate nec. Hendrerit massa dui laoreet imperdiet elementum euismod nunc velit viverra.

Media









SAVE PROFILE

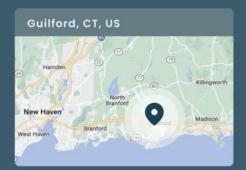


harvestinc.com









Active Listings

1 week ago Looking for partners

Need sugar kelp spools





greenwave.org/seaweed-source

Samantha Garwin

Director of Market Development
sam@greenwave.org

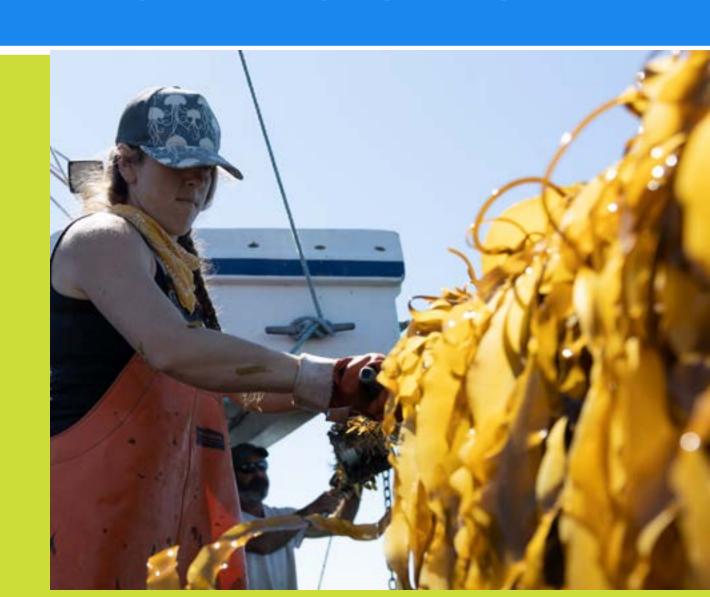


@GreenWaveOrg



WHAT ARE BLUE FOODS?

- Animals, plants, algae
- Harvested from lakes, rivers & oceans
- Provide protein & nutrients to over 3B people
- Employs 800 million people worldwide



AKUA'S PRODUCTS

AKUA CREATES THE WORLD'S MOST DELICIOUS, NUTRITIOUS & SUSTAINABLE PLANT-BASED MEAT & SEAFOOD ALTERNATIVES FROM REGENERATIVE AQUACULTURE & SELLS INTO RETAIL, FOOD SERVICE, AND ONLINE.



















Z V O



bon appétit

HEALTHYISH LOVES IT

The Perfect Frozen Veggie Burger Doesn't Exi—

AKUA's salty-smoky kelp burgers are all I want to eat this summer.



FORTUNE

ENVIRONMENT - AGRICULTURE

The seaweed superfood revolution could end world hunger—and save the planet

"Oceans cover more than 70% of the world's surface and yet contribute to 2% of the world's food. Seaweed remains an untapped food source potential. The UN's Food and Agriculture Organization even went so far as to describe seaweed as a "precious ally" in the fight against hunger."

The New York Times

How Will We Eat in 2023? Here Are 10 Predictions.

Briny flavors, high-end Jell-O shots, a fascination with outer

space and a concern for Earth will guide our choices. At least that's what the food forecasters say. Whole Foods Market's Top 10 Food Trends for 2023

Help From Kelp

As consumers look for alternative ingredients and experiment with new flavors, nutrient-rich, ecofriendly kelp-inspired foods are gaining popularity.

LOCALLY SOURCED WITH BIG IMPACT

WE SOURCE 100% OF OUR KELP FROM NEW ENGLAND-BASED, REGENERATIVE OCEAN FARMERS WHO GROW NUTRIENT-DENSE FOOD WITHOUT USING FRESH WATER, DRY LAND, FERTILIZER, OR FEED WHILE REMOVING VAST AMOUNTS OF CARBON FROM OUR SEAS, HELPING TO REVERSE CLIMATE CHANGE.













WE SELL KELP

IN PARTNERSHIP WITH

ECROP PROJECT

FRESH FROZEN OR DRIED



FRESH FROZEN ATLANTIC KELP CHOPPED

8lb or ~4kilo bag



ATLANTIC KELP FLAKES & POWDER

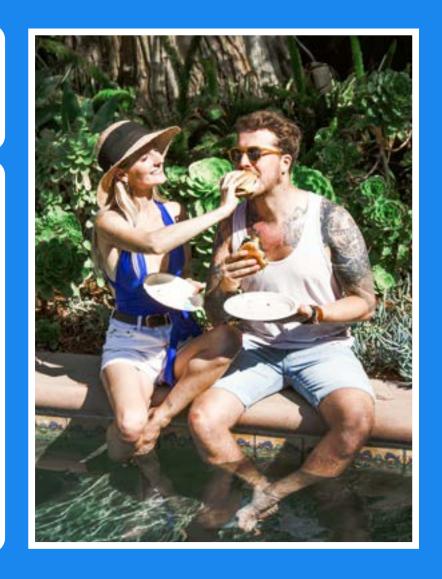
Dried & Milled to 20, 40 or 80 mesh

THE BIG OPPORTUNITY

AMERICA WANTS TO EAT MORE KELP....

.... BUT DOESN'T KNOW HOW!

- seaweed is the fastest growing source of food (BBC) & is consistently named one of the TOP health trends in wellness.
- Today only 10% of all grocery stores sell seaweed (and most of that is pre-packaged sushi).
- If they do sell it, 98% is imported from China, Japan, or Korea.



WHY KELP?



AKUA SOURCES 100% OF OUR
KELP FROM NEW ENGLANDBASED, REGENERATIVE
OCEAN FARMERS WHO GROW
NUTRIENT-DENSE FOOD
WITHOUT USING FRESH
WATER, DRY LAND,
FERTILIZER, OR FEED WHILE
REMOVING VAST AMOUNTS
OF CARBON FROM OUR SEAS,
HELPING TO REVERSE
CLIMATE CHANGE.

- IMPROVES
 BONE DENSITY
 AND CELLULAF
 HEALTH
- BOOSTS
 HYDRATION &
 METABOLISM
- ANTI-INFLAMMATORY

KELP
FOR
YOUR
HEALTH

KELP REMOVES
MORE C02 FROM
THE OCEAN THAN
LAND-BASED
PLANTS DO FROM
THE AIR PLUS
REQUIRES NO DRY
LAND OR FRESH
WATER TO GROW.

KELP
FOR
THE
PLANET

ACCORDING TO
THE WORLD BANK,
FARMING
SEAWEED IN JUST
0.1% OF THE
WORLD'S OCEANS
COULD CREATE 50
MILLION DIRECT
JOBS.

FARMING
FOR THE
ECONOMY



KELP

FOR



YOUR

HEALTH

Improves Bone Density

Better Sleep

Seaweed is high in an amino acid called tryptophan. It's used by the brain to create melatonin & studies show higher levels of tryptophan in the body = higher levels of melatonin.

Nutrient Dense

Kelp is one of the only foods that actually expands in your stomach! It leaves you feeling full and satisfied for longer. It also gives your body a metabolic boost!

Omega-3s

Found in fish, nuts, and you guessed it... KELP! Omega 3 fatty acids can combat inflammation, helping to reduce joint pain and stiffness.

Rich in Iodine

Naturally occurring in kelp, iodine is important for balancing the thyroid system and ensuring the metabolism is working at its top functionality. Iodine is also said to maintain healthy brain activity as well as help with brain development in children.

Kelp is a great source of Vitamin K, a key vitamin for supporting bone density & helping to prevent issues like osteoporosis

prevent issues like osteoporosis Hydration or arthritis.

Kelp allows your body to retain moisture & stay hydrated which will allow you to feel more energized throughout the day with glowing, flake-free skin.

Weight Loss

Kelp is a superfood from the sea, packed full of key vitamins & minerals your body needs to properly function and thrive!

Antioxidants

Kelp is packed full of antioxidants. This helps protect your skin against UV rays as well as everyday air pollution.

Vanadium

A naturally occurring trace mineral in Kelp, it works to balance your body's blood sugar and handle stress more effectively.

Anti-Inflammatory

Kelp contains Fucoidan, a polysaccharide which is known to be an anti-inflammatory. Scientists have also linked it to reducing cholesterol levels!

MORE MICRONUTRIENTS THAN ANY OTHER BURGER



Calcium 88mg	7%
Iron 2mg	12%
Potassium 245mg	5%
Vitamin A 192 IU	21%
Vitamin C 2mg	3%
Vitamin K 12mcg	10%
Thiamin 1mg	73%
Riboflavin 1mg	72%
Niacin 6mg	35%
Vitamin B6 1mg	51%
Folate 70mcg	18%
Panthonthenic Acid 1mg	11%
Magnesium 40mg	10%
Phosphorus 160mg	13%
Zinc 1mg	7%
Selenium 4mcg	8%
Omega-3 10g	7%

FINALLY, A BURGER THAT LEAVES YOU FEELING GREAT.



HELPING KELP GO MAINSTREAM

Product market fit

 Working with celebrities and influencers...

And SpongeBob





OUR SOLUTION IN ACTION

AKUA has purchased 120,000 lbs of oceanfarmed kelp



AKUA has sold 300,000+ kelp burgers



AKUA has sold 6,000 lbs+ of ground meat



AKUA has sold 10,000+ krab cakes

RESPONSIBLE FOR REMOVING 7.5 TONS OF HARMFUL **C02 FROM OUR** SEAS

AVOIDING NEARLY 1 MILLION POUNDS OF ADDITIONAL C02 THAT WOULD'VE **BEEN PRODUCED BY THE EQUIVALENT** POUND FOR POUND OF FACTORY-**FARMED RAISED BEEF.**

WITHOUT HARMING A SINGLE CRAB, **LEAVING 10,000 HAPPY CRABS IN THE SEA!**

*STATS AS OF 12/31/2022



DISCUSSION



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