

Turning the tide on climate change

Ebb Carbon Confidential—Shared Under NDA

www.ebbcarbon.com

We are Ebb Carbon

Founded by leading scientists and climate technology veterans, we are a team of chemists, engineers, physicists, strategists, oceanographers, communicators, and more.

We are driven by a shared passion to make a positive impact on climate change and ocean health.

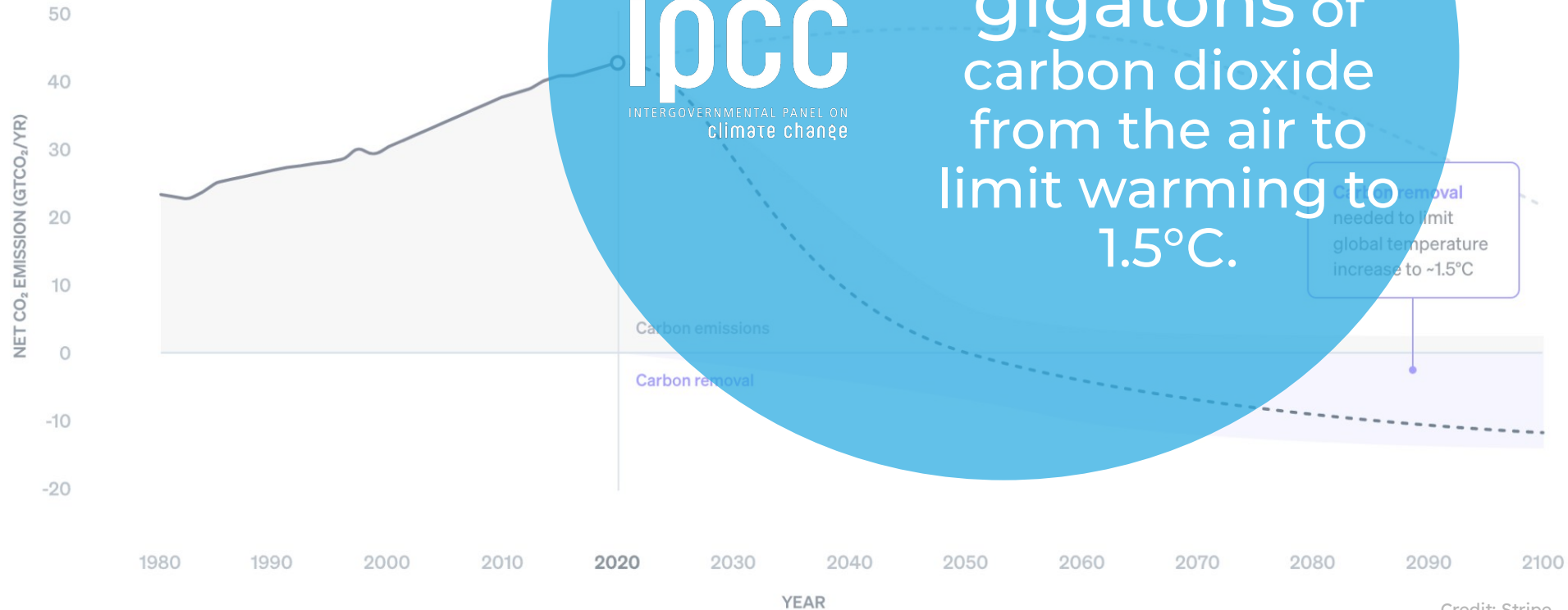
We are avid users of public transportation, $\frac{1}{2}$ of our team uses low carbon transportation, including trains, ferries, bikes and EV's.



Limit global temperature increase to:

~1.5°C

— Historical emissions - - - ~1.5°C path - - - Current path





We deliver high quality carbon removal while restoring the ocean

Using seawater and low-carbon electricity, we can remove gigatons of CO₂ permanently at competitive costs

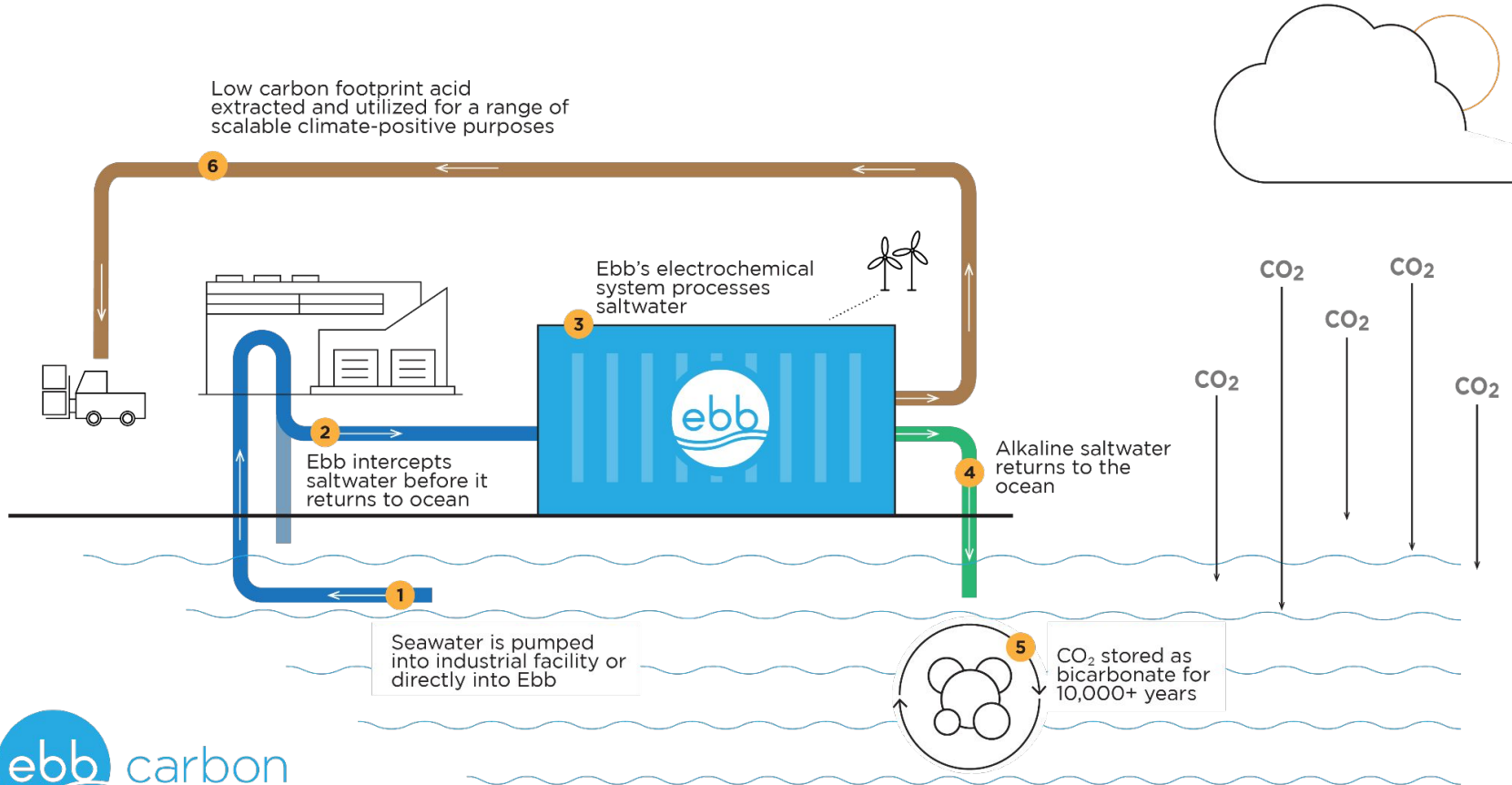
We are on a mission to create a healthier planet for generations to come

The earth regulates the chemistry of the ocean and draws down CO_2 from the air through ocean alkalization, a process that happens naturally over millions of years.

We use electrochemistry to accelerate this process so atmospheric carbon can be safely removed fast enough to counteract climate change and de-acidify seawater.



How Ebb Carbon works



R&D
SUNY
STONY BROOK





R&D
SAN CARLOS



R&D

NEW EBB HQ
IN SOUTH SAN
FRANCISCO



PNNL SEQUIM
100 TON
DEPLOYMENT



U.S. DEPARTMENT OF
ENERGY



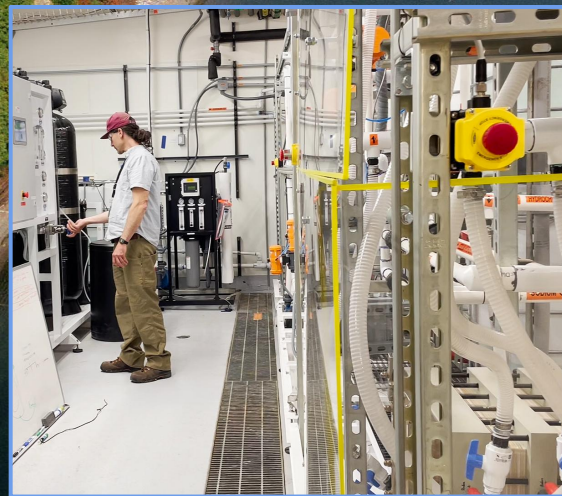
Pacific Northwest
NATIONAL LABORATORY



PMEL

W
UNIVERSITY of
WASHINGTON

 climateworks
FOUNDATION



Project
Macoma
Port Angeles,
WA
500 TON
DEPLOYMENT



Operational in
2024

CONFIDENTIAL CLIENT
PROJECT MACOMA LLC
1301 MARINE DRIVE - TERMINAL 7
PORT ANGELES, WA 98363

ISSUE FOR PERMIT
MARCH 2024
BC PROJECT NO. 159812
NOT FOR CONSTRUCTION

DRAWING INDEX

Sheet Number	Drawing Number	Drawing Title
	COVER	COVER SHEET, VICINITY MAP AND DRAWING INDEX
	GENERAL	
1	C-000	NOTICE, ASSURANCE AND LEGEND
2	C-001	EXISTING CONDITIONS
3	C-100	OVERALL SITE PLAN
4	C-000	MAJOR SITE PLAN
5	C-000	GRADING PLAN
6	C-000	SCOUR/SEA WALL/SHOREMENT PLAN
7	C-400	UTILITY COORDINATOR PLAN
8	C-000	DETAILS
9	C-800	ENVIRONMENTAL CONTROLS PLAN
10	C-000	DEP IMPROVEMENTS
	BUILDINGS	
11	B-000	MAIN ELECTRICAL ROOM PLAN - BUNKER BUILDING
12	B-100	ELECTRICAL SHED BUILDING - PLANS AND ELEVATIONS
14	B-000	ELECTRICAL SHED BUILDING - SECTIONS
15	B-000	EXISTING ELECTRICAL BUNKER BUILDING SECTION
16	B-000	START PLANS AND SECTIONS
17	B-000	SCHEMATIC AND TYPES
	STRUCTURE	
18	S-000	GENERAL NOTES
19	S-000	SPECIAL INSPECTIONS NOTES
20	S-000	STANDARD DETAILS
21	S-100	CONCRETE FOUNDATION AND DETAILS
22	S-100	MAIN ELECTRICAL ROOM PLAN AND SECTIONS - BUNKER BUILDING



VICINITY MAP



SITE MAP

FLOOR PLAN

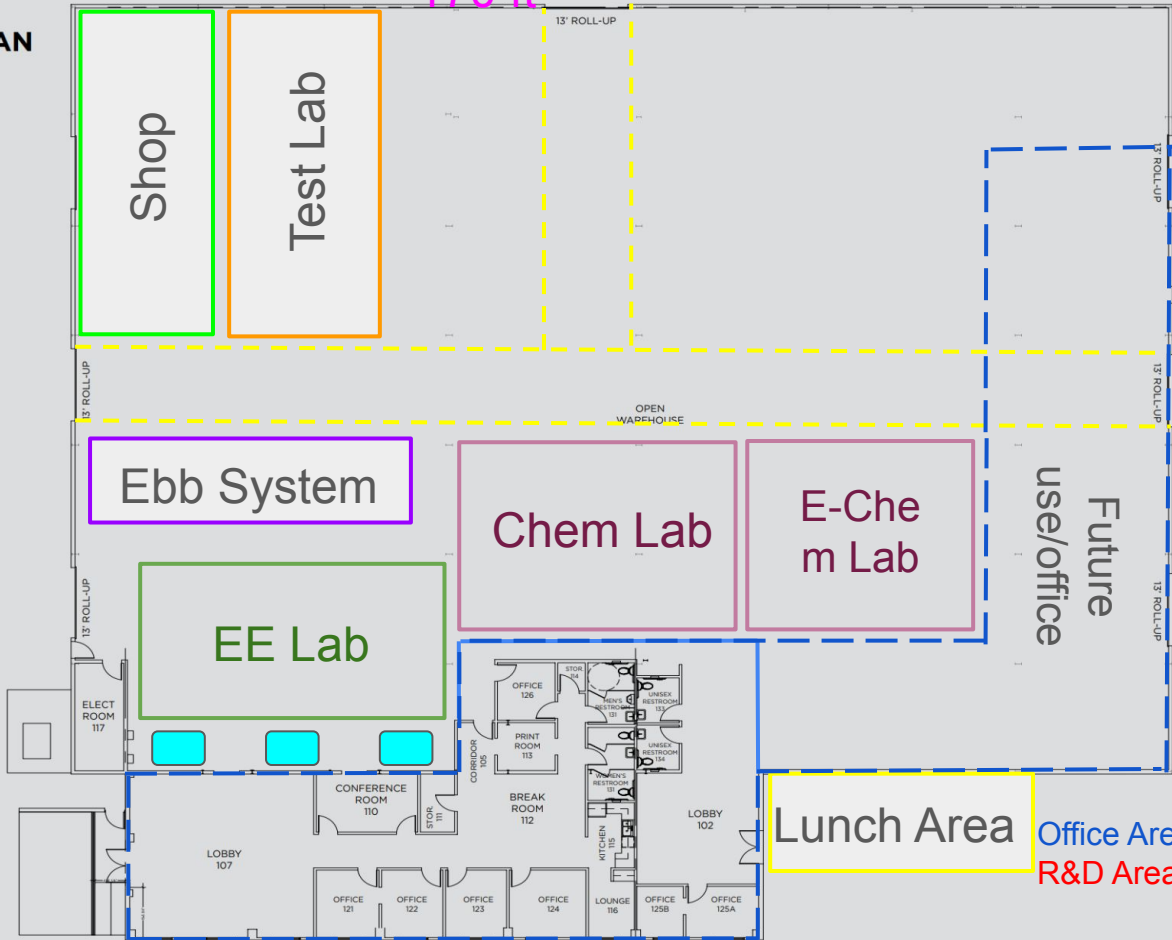
170 ft

137 ft

96 ft

Tenant Improvements:

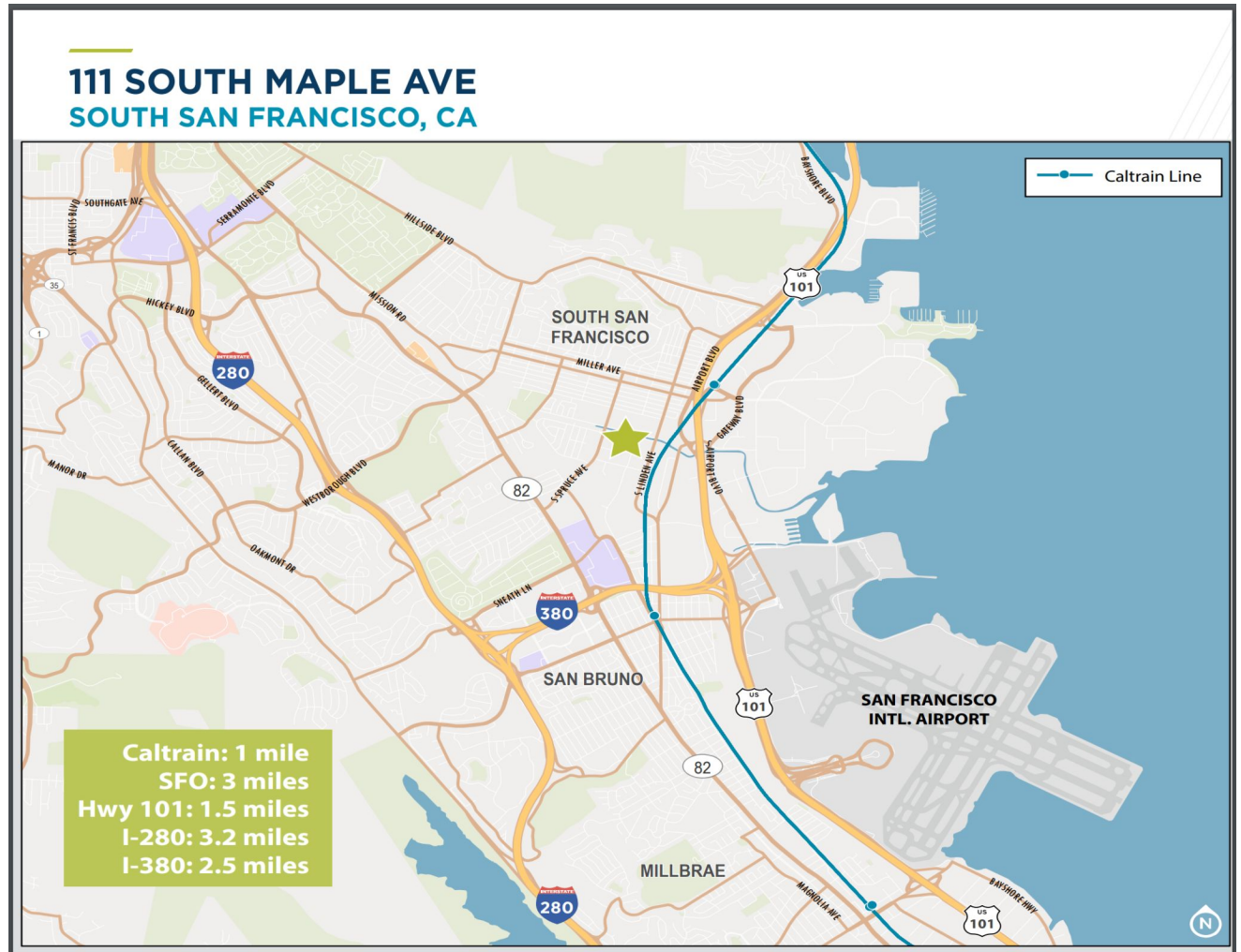
- Ebb plans to expand the office area not to exceed 30% of building sq ft., as allowed for Clean Technology use



Office Area = 8100 ft²
R&D Area = 18900 ft²

Location:

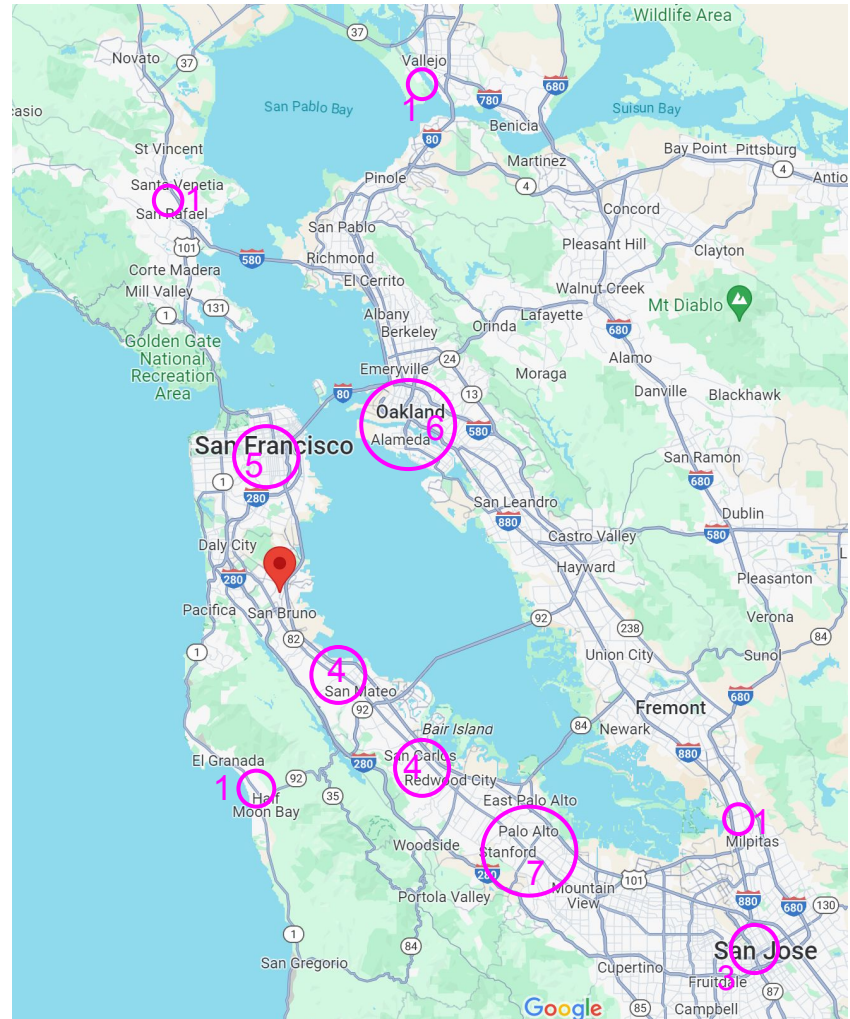
- **Caltrain:**
S. SF:
6 minute drive,
7 min bike ride,
20 min walk
San Bruno:
6 minute drive,
7 min bike ride,
30 min walk
- **BART:**
San Bruno:
6 minute drive,
7 min bike ride,
20 min walk
- **Ferry:**
Oyster Point:
12 minute drive,
16 min bike ride,
- **Freeways:**
Located on 101
Quick access to 380
& 280



Ebb Team Commutes by EV's, bikes, Caltrain, BART and Ferry

Team count by city:

- Vallejo - 1
- San Rafael - 1
- San Francisco - 5
- Oak/Ala - 6
- San Mateo - 4
- Moss Beach - 1
- San Carlos/Redwood City - 4
- Palo Alto/Mt View - 7
- Milpitas - 1
- San Jose - 3



Ebb Carbon Operations and Activities at 111 Maple Ave South San Francisco

Ebb Carbon Inc, is currently advancing the technological readiness level (TRL) and continuing to perform research and development activities all in service of providing technology to remove atmospheric carbon dioxide. Actual engineering and R&D activities that are performed on a daily basis at Ebb Carbon facilities are: bench-scale laboratory testing of electrochemical cells that inform system level design and input; alkalinity delivery testing - adding alkalinity to seawater samples (occasional deliveries seawater) to understand ocean carbonate chemistry for carbon dioxide removal efficiencies; bench-scale acid neutralization for acid removed from the ocean; scaled electrochemical testing in order to improve system efficiencies; assembly, testing and acceptance for commercial scale components (modules) that will be deployed for carbon dioxide removal for project sites. All of the aforementioned activities support developing a technology that is appropriate for permanently removing carbon dioxide from the atmosphere at a relevant scale. Ebb Carbon's efforts directly address the environmental damages caused from anthropogenic human activity from utilizing hydrocarbons.



www.ebbcarbon.com

Appendix - Optional slides for more on market conditions and business

Leadership team at Ebb Carbon



Ben Tarbell
CEO;
Co-Founder



Todd Pelman
COO;
Co-Founder



Dana Zhu
Director, Product
Mgmt



Kyla Westphal
VP External Affairs



**Frances
Simpson-Allen**
Director, Policy & Market
Development



Matt Eisaman
Chief Scientist;
Co-Founder



Dave Hegeman
VP Engineering;
Co-Founder



John Lefebvre
Head of
Development

With over 60 years experience at:



Yale University



Maripro

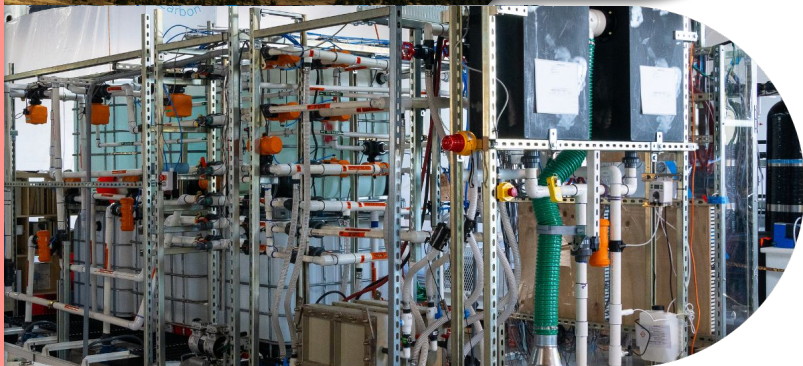
T
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Supply-constrained demand
for high-quality carbon
removal



Declining cost of
renewables



Modular and
efficient design



Advantages

Additional
The carbon we remove is 100% additional



Cost Competitive
Our carbon removal credits will cost less than \$100/ton of CO₂ in 5 years



ebb

Durable

We help the ocean store excess CO₂ in the air as bicarbonate in the ocean for 10,000+ years



Scalable

The vast surface area of the ocean enables us to remove gigatons of CO₂ from the air every year



Restorative

Our solution reduces the acidity of seawater, which can benefit marine life like shellfish and coral reefs.



The world needs low-cost high-quality solutions



*Quality: durability, additionality, verifiability, and safety

We partner with existing industries and infrastructure

Desalination

Improving brine discharge and creating revenue streams



Aquaculture

Improving yields and supporting farmers



Industrial / Energy

Improving ROI for water cooling



Brownfield

Repurposing shuttered industrial sites



Ports

Decarbonization of ports



Desalination is a pathway to gigatons

For desal operators

- ✓ Significant revenue upside from CDR: Can double plant revenue at \$100/ton
- ✓ Reduced opex and increased production
- ✓ Positive environmental impact: reduced brine concentration and lower coastal acidification



For Ebb Carbon

- ✓ Reduced cost via shared infrastructure and lower cost of capital
- ✓ Access to renewable-powered pilot plants and existing infrastructure
- ✓ 100+ new plants coming online in MENA over the next 5 yrs, each with 1M+ ton / year CDR potential (on average)