# Carbon to Sea Initiative

## Who We Are

Carbon to Sea is a philanthropic initiative to evaluate and accelerate research and development of one of the most promising marine carbon dioxide removal (mCDR) pathways — ocean alkalinity enhancement (OAE). We bring together leading scientists, engineers, field builders, and market shapers to systematically assess whether and how OAE can be a safe, scalable, and permanent carbon removal method.

### **Carbon Dioxide Removal Matters**

CDR is an essential complement to support decarbonization efforts. The private sector has already invested billions of dollars towards net decarbonization, pointing to the massive market potential of carbon removal. mCDR could help preserve coastal livelihoods by creating new, well-paying jobs, as well as boost domestic manufacturing opportunities across the country.

### The Ocean's Powerful Carbon Removal Role

The ocean naturally absorbs carbon dioxide and holds over 50 times more carbon dioxide than the atmosphere, making it the world's largest natural carbon sink. OAE could safely accelerate the ocean's natural ability to permanently remove carbon dioxide from the atmosphere. The world's leading scientific bodies, including the National Academies of Science, have identified OAE as one of the most promising and permanent ways to reduce carbon dioxide in the air at climate-relevant scales. But we need research funding to help answer questions about effectiveness and safety.

#### The Ask

Congress has already allocated nearly \$100 million in research funding to establish the US as a global leader in mCDR, but other countries are quickly catching up. Congress can take several steps for FY26 to support the safe development of mCDR and contribute substantially to the goal of achieving gigaton-scale capacity for safe and effective CDR by the end of the decade:

- Support CJS Appropriations and Language for mCDR.
  Provide no less than \$25,000,000 to the National Oceanic and Atmospheric Administration (NOAA) to support research and development of diverse mCDR approaches.
- Support E&W Appropriations and Language for mCDR. Direct NOAA and DOE to enhance coordination, research, and technology development for the advancement of mCDR science.
- **Cosponsor the reintroduction of the ReSCUE Oceans Act.** This bill will bolster federal mCDR research and development, and enhance coordination across federal agencies.

Alkalinity enhancement allows the ocean to permanently store atmospheric CO2 as harmless carbonates and bicarbonates.

