



MEMORANDUM OF SUPPORT

SB 308

THE CARBON DIOXIDE REMOVAL MARKET DEVELOPMENT ACT SENATOR JOSH BECKER

[SB 308 Text](#)
[SB 308 FAQ](#)
[Sen. Becker's Statement](#)

CARBON DIOXIDE REMOVAL: AN IMPERATIVE FOR NET ZERO

- Reducing GHG emissions from fossil fuels and other sources must be the first priority for minimizing climate change. Full stop.
- But the scientific community now agrees that **carbon dioxide removal (CDR)** will also be required to avoid extreme climate outcomes.
- **CDR is also imperative for California to meet its net zero target.** AB 1279 (Muratsuchi, 2022) established a target for achieving net zero in 2045, including a target of reducing GHG emissions by at least 85% from 1990 levels. Even after achieving major reductions in GHG emissions, the remaining 15% would need to be balanced by approximately 65 million metric tons (MMT) of negative emissions from CDR to close the gap and achieve the net zero target.

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“The deployment of CDR to counterbalance hard-to-abate residual emissions is unavoidable if net zero CO₂ or GHG emissions are to be achieved.”

[IPCC 6th Assessment Report](#)
[April 2022.](#)

“In 2022, California passed landmark legislation committing the state to achieve net zero emissions by 2045, with a reduction in emissions of at least 85% from 1990 levels. To achieve the net zero target, the state will need carbon dioxide removal (CDR) to balance those remaining 15% of emissions, but today the state has no plan for scaling up that CDR capacity. I have introduced SB 308 to address this gap, and establish California’s global leadership in this essential new climate sector.”

- **Senator Josh Becker (SD 13), SB 308 Sponsor**



California’s 2022 Scoping Plan for Achieving Carbon Neutrality explicitly affirms the need for CDR to achieve net zero.

Excerpts from the Scoping Plan

	2030 (MMTCO ₂ e)	2045 (MMTCO ₂ e)
GHG Emissions	233	72
AB 32 GHG Inventory Sector Emissions	226	65
Net NWL GHG Emissions Across All Landscapes (annual average from 2025–2045)	7	7
Carbon Capture and Sequestration (CCS): Avoided GHG Emissions from Industry and Electric Sectors	(13)	(25)
Carbon Dioxide Removal (CDR) including natural and working lands carbon sequestration, ¹⁶⁵ Direct Air Capture, and Bioenergy with CCS (BECCS).	(7)	(75)
Net Emissions (GHG Emissions + CDR)	226	(3)

Table from Scoping Plan (pg 96) that estimates 7 MMT of CDR per year is needed to reach the level required to meet net zero targets (75 MMT cumulative by 2045.)

“Carbon removal and sequestration will be an essential tool to achieve carbon neutrality, and the modeling clearly shows there is no path to carbon neutrality without carbon removal and sequestration.”

“Because CDR is critical for achieving carbon neutrality in all alternatives, it is important to begin investment soon to allow demonstration, deployment, and experience to reduce its cost as dependence on it grows toward 2045.”

SB 308: CATALYZING CDR IN CALIFORNIA

SB 308 aims to put California on a path to global CDR leadership by stimulating investment in CDR solutions and providing firm and growing demand for negative emissions. Scores of businesses in California are already taking steps to minimize their footprints through purchasing of removals. SB 308 will ensure we do so on a timeframe to meet AB 1279's net zero target.

CORE POLICY COMPONENTS

1 Establish binding annual CDR targets for California, in alignment with 2045 Net Zero objectives.

SB. 308 requires the state to incorporate specific annual CDR targets in alignment with existing net-zero law, and directs CARB to implement a support program that is capable of ensuring that the targets are met.

2 Create rules for high quality CDR selection.

SB308 directs CARB to establish technology-neutral rules that will ensure that any carbon removals that can be counted toward meeting the net zero targets are measurable, verifiable and of the highest quality in long-term permanence to ensure we meet our state net-zero goals.

3 Ensure safety and maximum community benefit.

SB. 308 directs CARB to factor the costs and benefits of proposed CDR pathways, including by empowering projects that establish local community benefits agreements, and by declining to certify CDR methods with significant concerns

CARBON DIOXIDE REMOVAL (CDR):



"A wide array of approaches that remove carbon dioxide (CO₂) directly from the atmosphere and store it to create negative emissions.

Storage can occur in geological, biobased or ocean reservoirs or in value-added products, like concrete."



WORKING LANDS



DURABLE BIO-STORAGE



OCEAN ALKALINIZATION



CO₂ MINERALIZATION



DIRECT AIR CAPTURE



TO SIGN ON TO CO-SPONSOR SB 308 CONTACT:

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SIGNATORIES

THE UNDERSIGNED ORGANIZATIONS AND BUSINESSES STRONGLY SUPPORT SB 308, THE CARBON DIOXIDE REMOVAL MARKET DEVELOPMENT ACT.

[350 Sacramento](#)

[4 Corners Carbon Coalition](#)

[Activate \(Berkeley\)](#)

[AirMyne \(Berkeley\)](#)

[Air Miners](#)

[Andes \(Alameda\)](#)

[Aquarry \(Emeryville\)](#)

[Captura \(Pasadena\)](#)

[Capture6 \(Berkeley\)](#)

[CarbonBuilt \(Los Angeles\)](#)

[Carbon Business Council](#)

[Carbon Capture \(Los Angeles\)](#)

[Carbonfuture](#)

[Carbon Removal Alliance](#)

[Citizen Climate Lobby California](#)

[Clairity Tech \(Los Angeles\)](#)

[Climate Action California](#)

[Climeworks](#)

[Congruent Ventures \(San Francisco\)](#)

[Corigin \(Merced\)](#)

[Direct Air Capture Coalition](#)

[Ebb Carbon \(San Carlos\)](#)

[Equatic \(Los Angeles\)](#)

[Foundation for Climate Restoration](#)

[Frontier \(San Francisco\)](#)

[Heirloom Carbon \(San Francisco\)](#)

[Holy Grail \(Mountain View\)](#)

[Indivisible Yolo County](#)

[Kita](#)

[Lithos](#)

[Mote \(Temecula\)](#)

[Noya \(San Francisco\)](#)

[Octavia Carbon](#)

[OpenAir Collective](#)

[Pacific Coast Legacy Emissions Action Network](#)

[Patch.io \(San Francisco\)](#)

[Puro.earth](#)

[Rethinking Removals](#)

[Rocky Mountain Institute \(RMI\)](#)

[Sitos Group \(Soledad\)](#)

[Stripe Climate \(San Francisco\)](#)

[Sustainable Silicon Valley \(Redwood City\)](#)

[Thanks-a-Ton \(Los Angeles\)](#)

[UCLA Institute for Carbon Management \(L.A.\)](#)

[U.S. Biochar Coalition](#)

[Vaulted Deep \(San Francisco\)](#)

[Vesta \(San Francisco\)](#)