

Matt Simmons
Climate Attorney
Environmental Protection
Information Center
Arcata, CA

Fish & Game Commission
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National Oceanic and
Atmospheric Administration

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2023 was the world's warmest year on record, by far

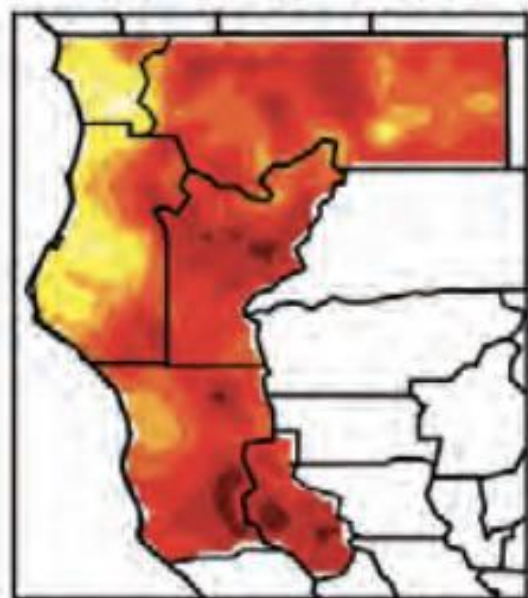
Antarctic sea ice coverage hit record low

Focus areas: [Climate](#), [Satellites](#) **Topics:** [temperature rankings](#), [global average temperatures](#), [State of the Climate](#)

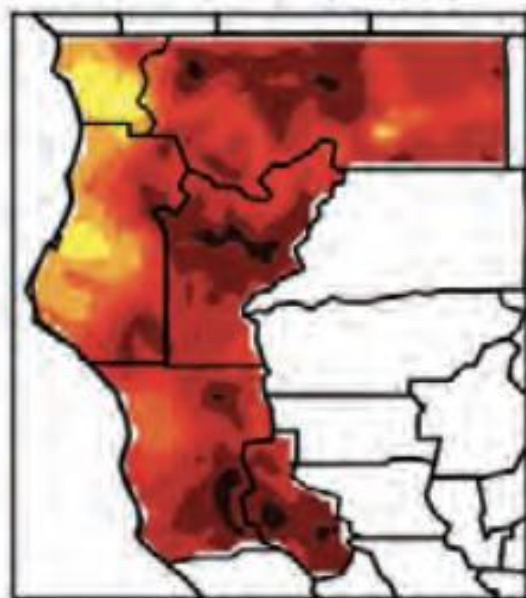
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January 12, 2024

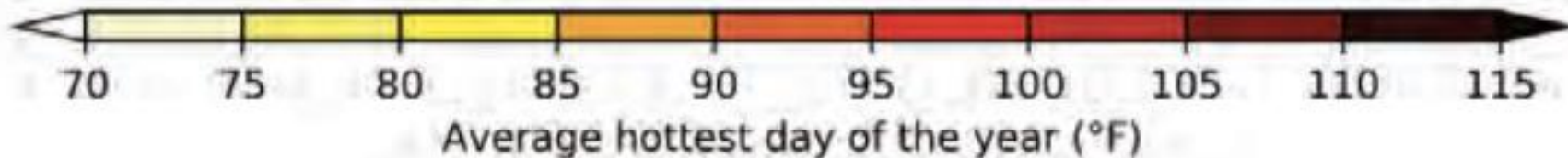
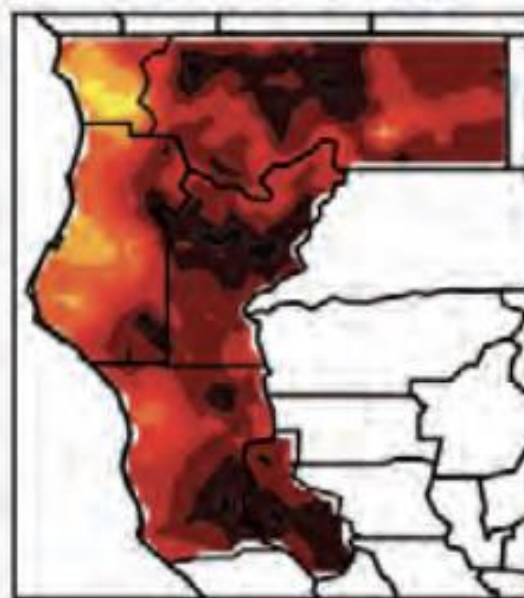
Historical 1976-2005



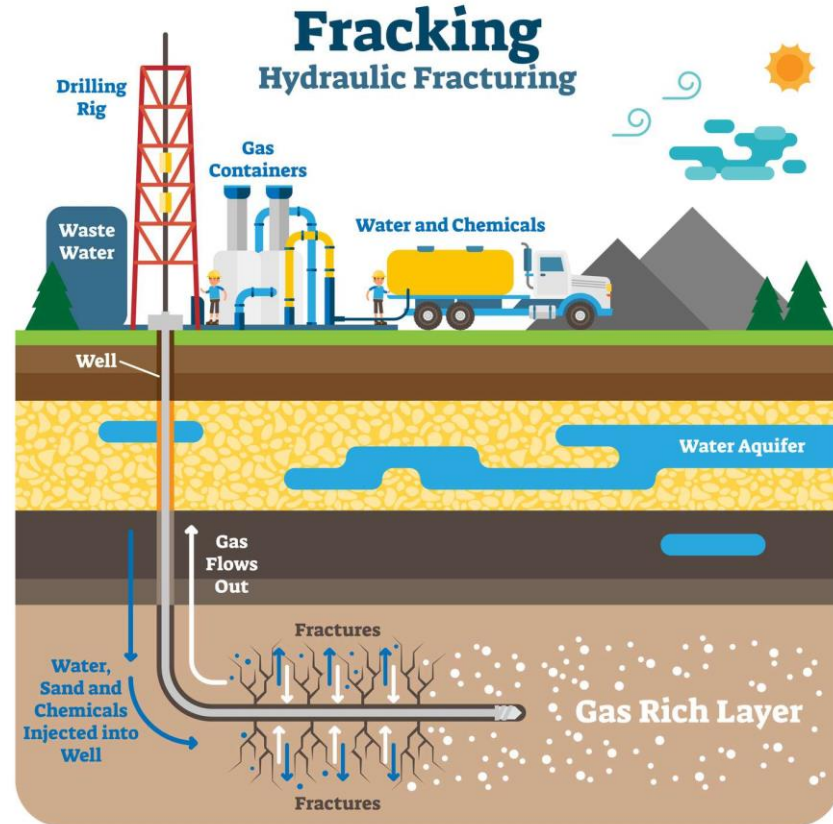
RCP4.5 2070-2100



RCP8.5 2070-2100



Where does Humboldt Bay get its power from now?



Why can't we just use solar power?

Net demand trend

System demand minus wind and solar, in 5-minute increments, compared to total system and forecasted demand.

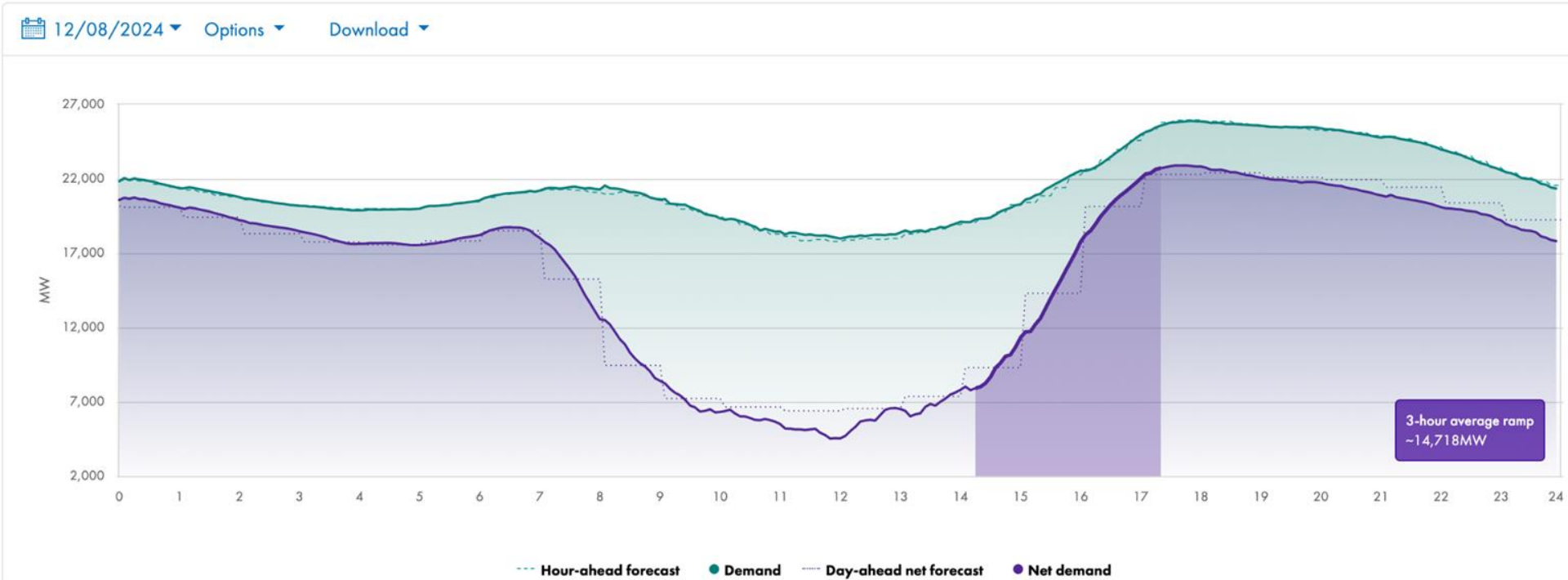
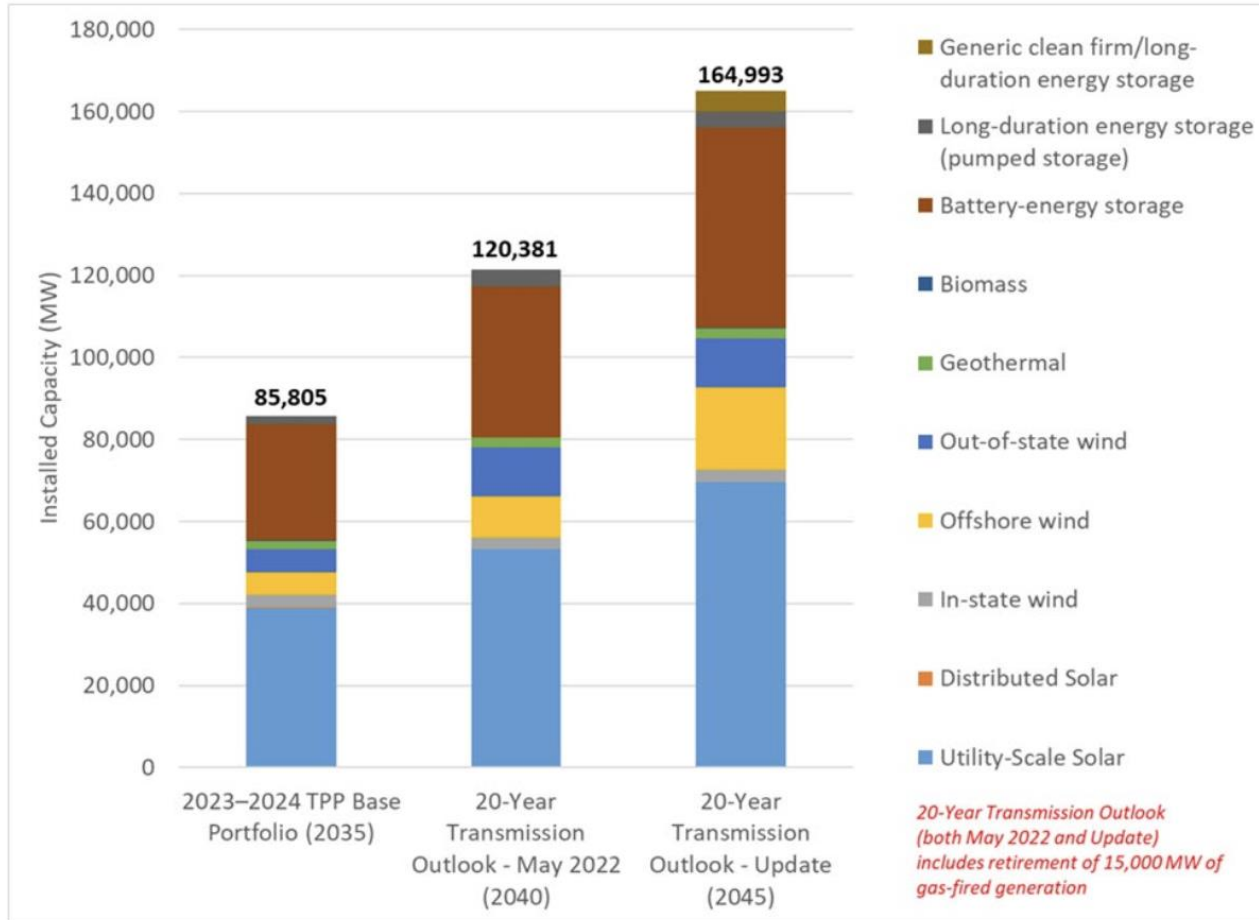


Figure 1-1: Resource Portfolios for 2035 to 2045



Source: California ISO (<https://www.caiso.com/documents/iso-board-approved-2023-2024-transmission-plan.pdf>)

Clean Up of the Existing Site

- The timber industry has left a toxic legacy including dioxins, furans, other pollutants.
- Responsible project development requires a thorough clean up of the existing site.

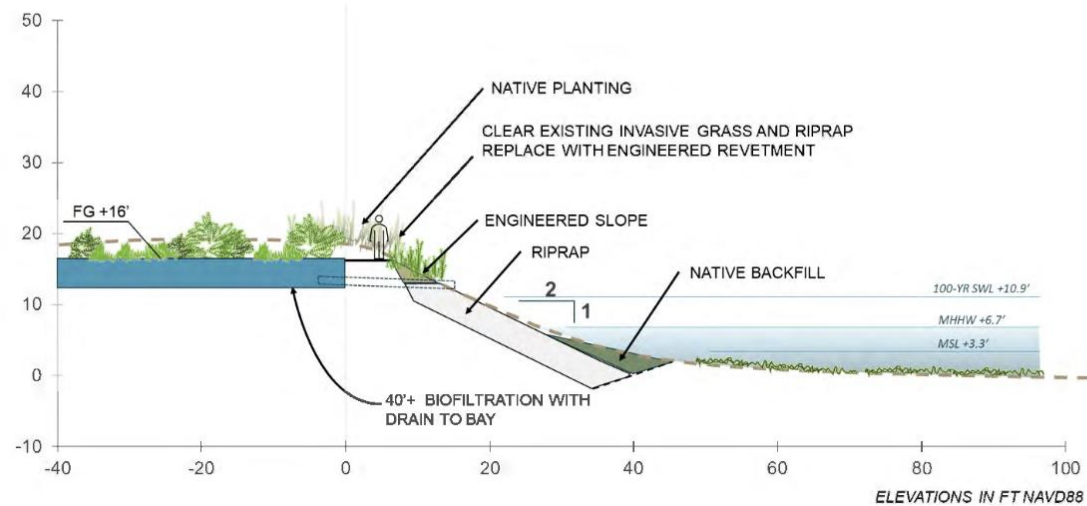


Sea Level Rise & Shoreline Erosion

- Humboldt Bay is already experiencing the fastest rate of sea level rise in California. Increased dredging could exacerbate shoreline erosion
- The project will have to plan for sea level rise as well as shoreline erosion
- Current plans for an eco-shoreline are promising. \$2,340,000 in Federal INFRA grant

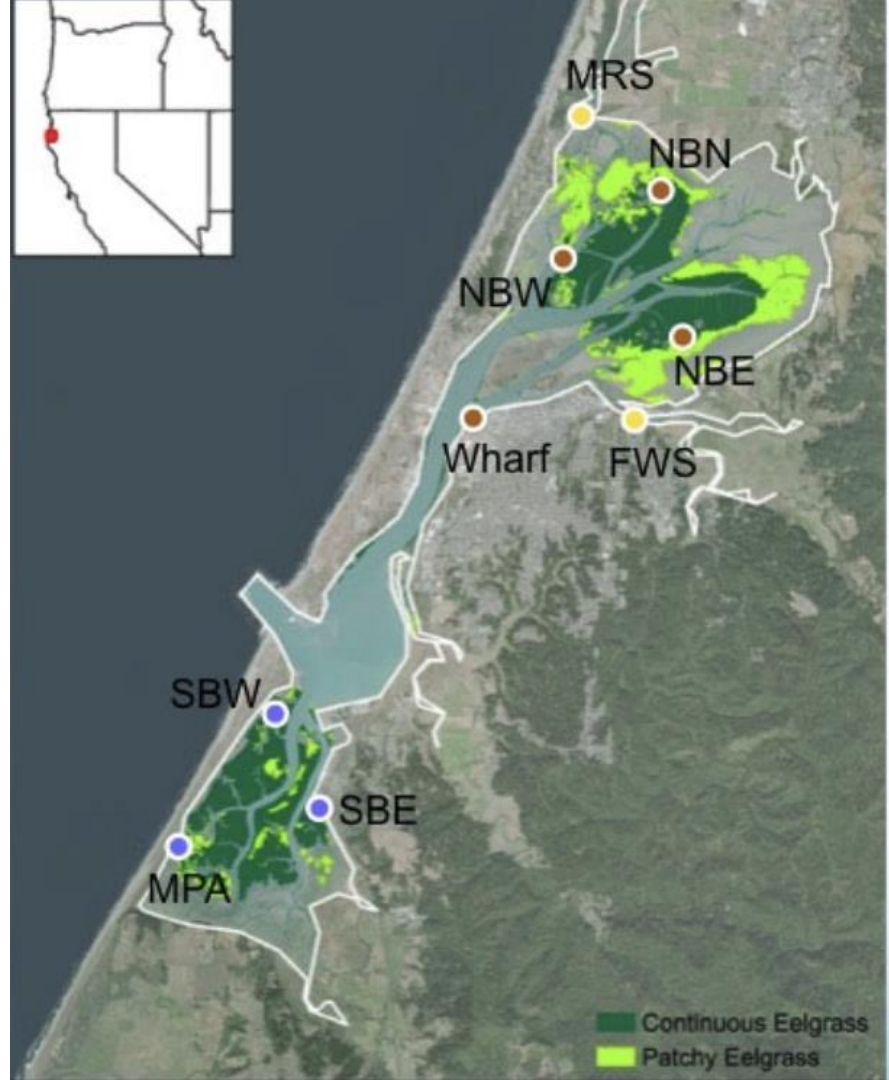
Humboldt Bay Harbor District
Shoreline Protection Design Memo

March 27, 2024



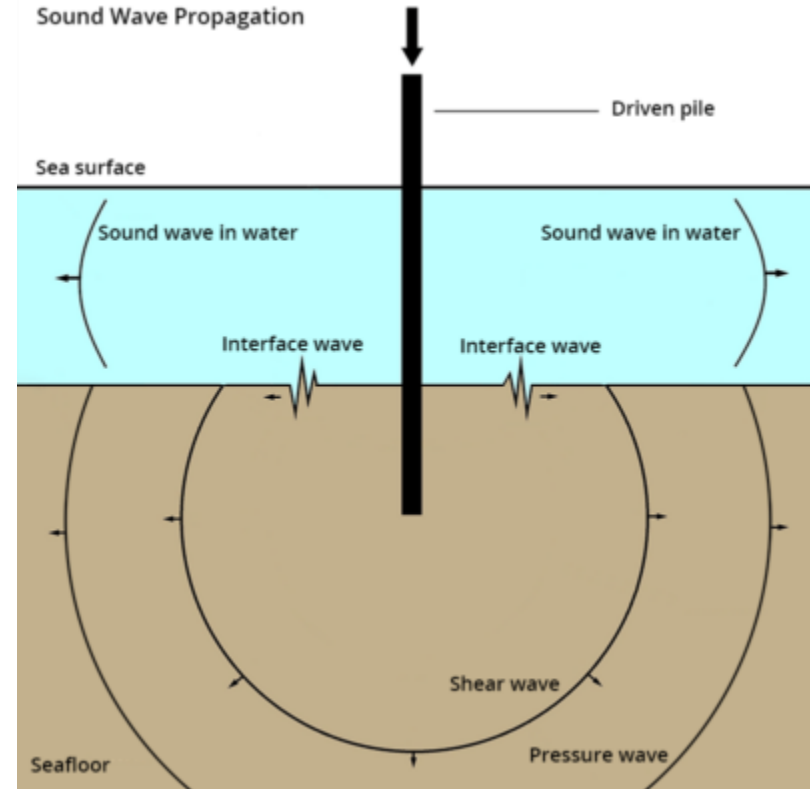
Ecological Impacts of Dredging and increased vessel traffic

- Source: Gilkerson & Merkel. Humboldt Bay and Eel River Eelgrass Monitoring and Pilot Study Project (2020-2023)
- \$21,000,000 eelgrass mitigation in INFRA grant



Noise Impacts

- Pile driving during construction will likely cause noise impacts to both nearby communities and animals within Humboldt Bay
- Potential mitigations include sound curtains, bubble curtains, and limiting pile driving activities at certain times of day/year

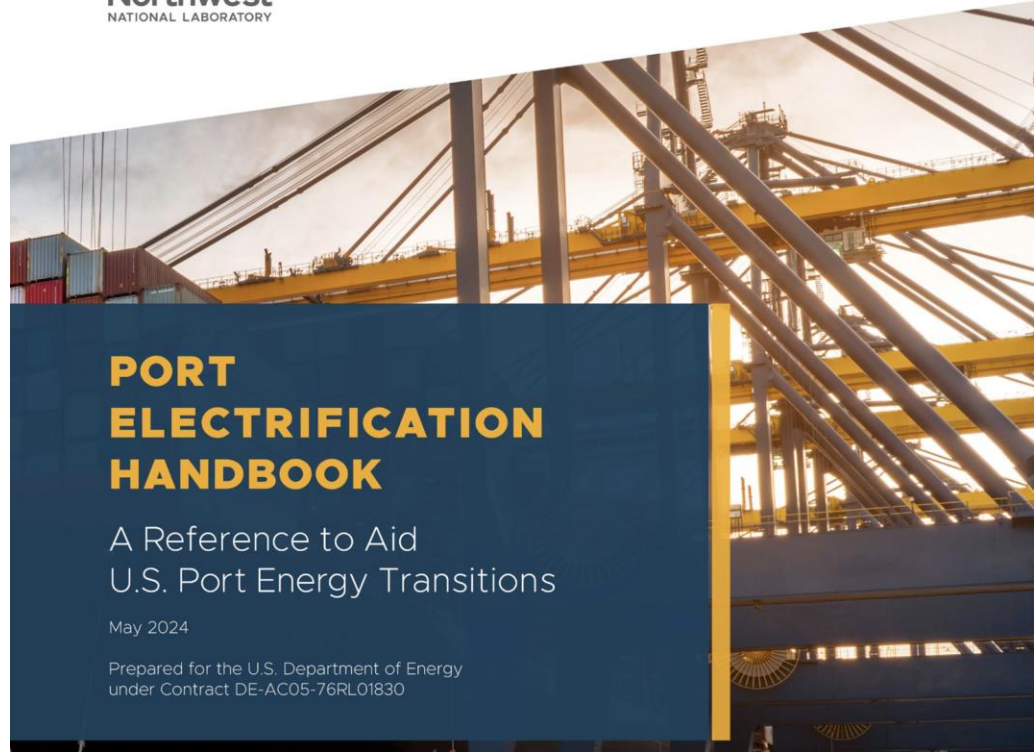


Air pollution and emissions

HUMBOLDT BAY HARBOR, RECREATION, AND CONSERVATION DISTRICT

RESOLUTION NO. 2024-01

A RESOLUTION COMMITTING THE DISTRICT TO DEVELOPING AND ADOPTING A GREEN TERMINAL STRATEGY AND ROADMAP FOR THE NEW HEAVY LIFT MULTIPURPOSE TERMINAL TO SUPPORT THE OFFSHORE WIND INDUSTRY



PORT ELECTRIFICATION HANDBOOK

A Reference to Aid
U.S. Port Energy Transitions

May 2024

Prepared for the U.S. Department of Energy
under Contract DE-AC05-76RL01830

North Coast Offshore Wind



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