LEVERAGING OPPORTUNITIES

PARTNERSHIPS



Caltrans and SANDAG MOU (October 2020) to reduce greenhouse gas emissions through advancement of Harbor Drive 2.0 - A Greener, Safer, Healthier Harbor Drive. This aims to implement a "haul road" and intelligent transportation systems to separate trucks from regular traffic and encourage haulers to avoid the Barrio Logan community.

The San Diego Foundation MOU (February 2021) to advance opportunities for program alignment and investment to support coastal access; climate initiatives and coastal resiliency; environmental conservation and stewardship; environmental justice; and a sustainable waterfront. In July 2021, the Foundation awarded the Port \$75,000 to support its environmental education program.





U.S. Fish & Wildlife Services Refuges and Poseidon Resources MOU (March 2021) to collaborate in good faith on the design, construction and long-term monitoring of the Otay River Estuary Reserve Project and the Pond 20 Wetland Mitigation Bank.

Canada's Ocean Supercluster MOU (June 2021) to establish a partnership to explore opportunities for program alignment and seek investment to support the development and scaling of innovative solutions that promote the Blue Economy at ports.



The Port partnered with 21 agencies in the San Diego region to launch the Project Clean Water public education campaign to raise awareness of stormwater issues and encourage behaviors that promote water quality. More at: projectcleanwater.org

BLUE ECONOMY INCUBATOR

ECOncrete installed 72 interlocking COASTALOCK units on Harbor Island as an alternative to rip rap, creating artificial tide pools for enhanced ecological functioning, shoreline protection, and biodiversity.

Sunken Seaweed leveraged funding from the U.S. Department of Energy ARPA-e program to implement restorative aquaculture techniques to explore benefits of seaweed for bioremediation in San Diego Bay.





ecoSPEARS deployed clean water technology at two locations in San Diego Bay for a six-month period to address PCB contaminant sediment.

FREDsense technologies were approved to develop real-time stormwater pollution monitoring in collaboration with the Port.

For more information on the Port's Blue Economy Incubator and how to apply please visit: portofsandiego.org/blueeconomy





2021 YEAR IN

ENVIRONMENTAL CHAMPION HIGHLIGHTS

The Port of San Diego champions the safekeeping and environmental care of our dynamic waterfront. We are proud to be a leader in protecting our water, air and land to ensure the complete ecosystem of San Diego Bay remains a vital natural resource for generations to come. The delicate balance of a healthy San Diego Bay ecosystem is upheld through a collaborative network of programs and initiatives, each working on innovative ways to sustain our waterfront.

pedestrians away from roadways.

HIGHLIGHTS OF A GREEN YEAR | 7 WAYS WE CARED FOR OUR: (WATER | AIR) LAND









A **second shorepower system** will be installed at the Port's cruise ship terminals by 2023. The additional shorepower will result in at least a 90 percent overall reduction of air pollutants like nitrogen oxides (NOx), diesel particulate matter, and greenhouse gas emissions.



The California Natural Resources Agency's Urban Greening Program funded \$4.8M of the Sweetwater Bicycle Path & Promenade, which added three-quarters of a mile of Class I bike path and pedestrian promenade, providing exclusive right of way for bicyclists and

The Board of Port Commissioners certified the Final Environmental Impact Report (EIR) for the **95-acre Pond 20** Wetland Mitigation Bank. The project includes the creation, restoration, and on-going maintenance and monitoring of tidal wetland habitat and upland buffer habitat.



The Port's Environmental Fund supported environmental education to 11,600 students most from underserved areas. The curriculum provided a unique learning experience addressing pollution prevention, watershed management, and protection of natural resources connected to San Diego Bay.

The Port, in partnership with the California Coastal Conservancy, received \$890,000 in grant funding from the U.S. Fish & Wildlife Service to construct a Living Shoreline, a natureinspired shoreline with native oyster reef, on the north side of the Chula Vista Wildlife Reserve, to increase biodiversity and improve the resiliency of the adjacent coastal salt marsh from projected climate change impacts.





(MCAS) to improve public health by accelerating zero and near-zero emission technologies. The Port also actively supported development of the complementary Community Emission Reduction Plan working closely with community representatives, regional stakeholders, and public agencies.



The Port acted on Climate Action Plan goals related to energy that resulted in approximately 17% reduction in electricity and 60% reduction in natural gas, and resulted in an annual savings of approximately \$300,000.



portofsandiego.org/environment 2021 Year in Review

SUSTAINABILITY AT-A-GLANCE: PORT OPERATIONS



ENERGY USE

42% reduction*



**CO2 emissions produced from combustion of biofuels



GREENHOUSE

GAS EMISSIONS

38%

reduction**

COST **AVOIDANCE**

(\$)

\$11.9

million saved due to energy and water conservation since 2008



RENEWABLE ENERGY

422,000

Kilowatt hours of renewable energy produced

WASTE



45 vessels identified as marine debris were removed from San Diego Bay



Diverted 337 tons of recycled material from Port facilities



Port collected and recycled 15 **pounds** of fishing line



Increased the use of renewable diesel in 2020 by 33%

#THATSMYBAY

As part of the #ThatsMyBay campaign, the Port sponsored and participated in four cleanups around San Diego Bay removing 16,868 pounds of trash with approximately 1,500 volunteers.



PORT ENVIRONMENTAL ACHIEVEMENTS

LAND USE AND ENVIRONMENTAL PLANNING INITIATIVES



A revised draft of the Port Master Plan Update (PMPU) was released in October 2020. The Port conducted extensive stakeholder engagement and received 400 written comments.

The Port held a virtual workshop in May 2021 to obtain public input on a potential 2.5-acre expansion of Pepper Park in National City. This workshop was attended by 100 members of the public and was the first virtual Port workshop to be conducted simultaneously in three languages (English, Spanish, Tagalog).

PORT ENVIRONMENTAL ACHIEVEMENTS

ELECTRIFICATION AND TRANSPORTATION INITIATIVES



The Port entered into a contract with EDF Renewables Distributed Solutions Inc. to serve as the microgrid contractor for the California Energy Commission (CEC) grant. The grant funded the microgrid at the Tenth Avenue Marine Terminal. The Port anticipates that the microgrid system will be operational in early 2022.

Through grant funding from the CEC, the San Diego Port Tenants Association and regional stakeholders successfully demonstrated a freight signal prioritization system along Harbor Drive. The new system decreased travel time, idling, and emissions from heavy-duty trucks participating in the program along Harbor Drive and the Port's Working Waterfront.

AIR QUALITY PROGRAMS

Working closely with the San Diego Unified School District, the Port leveraged the Maritime Industrial Impact Fund to provide \$488,165 for the installation of enhanced air filtration systems across 16 classrooms and multi-purpose facilities at Perkins Elementary School located in Barrio Logan. Barrio Logan has been identified by the State as a disadvantaged community with a high cumulative air pollution burden and a number of sensitive receptors. This project improves the air quality for 430 students, supporting faculty and staff and was completed in spring 2021.



NATURAL RESOURCES PLANNING



A camera was installed on the Osprey Nesting Platform located at the Chula Vista Wildlife Reserve to observe and better understand nesting habits of these protected species.

The Port and U.S. Fish & Wildlife staff at the San Diego Bay National Wildlife Refuge collaborated on a new invasive plant control measure, called solarization. The goal is to remove 5,600 square feet of invasive European sea lavender from the D Street Fill.

REGIONAL HARBOR MONITORING PROGRAM/REPORT

The 2018 Regional Harbor Monitoring Program final report, published in December 2020, found that the four harbors monitored were supportive of diverse fish and invertebrate communities. Overall, conditions continue to improve when compared to historical data.

portofsandiego.org/environment 2021 Year in Review