

LEVERAGING OPPORTUNITIES GREEN GRANTS

\$5 million California Energy Commission Grant

for a microgrid, solar energy infrastructure and battery storage at Tenth Avenue Marine Terminal

\$5.9 million California Energy Commission Grant

for all-electric forklifts and heavy-duty trucks at five tenant locations awarded to the San Diego Port Tenants Association

\$5.6 million California Transportation Commission Grant

to install an additional Shore Power Plug and purchase an Advanced Marine Emissions Control (AMEC) bonnet system for Tenth Avenue Marine Terminal



SECURING AN EVEN GREENER FUTURE WHAT'S NEXT?

Renewable Diesel

Port fleet vehicles began using renewable diesel to reduce hydrocarbon and nitrogen oxide emissions. Look for our first year of GHG emission reductions in next year's report.

Sunken Seaweed Project

A pilot project to explore the feasibility of seaweed aquaculture in the Bay. The first crop of baby kelp and other seaweeds are set to be stocked by the end of September 2018 using 3-D ocean farm design.

South Bay Wetlands Mitigation Bank

Submitted application to U.S. Army Corp of Engineers to move forward with a project to turn the former salt pond into a habitat preserve that will help offset the impact of other projects elsewhere along the coast.

San Diego Ocean Planning Partnership

Held 70 focused stakeholder meetings and 5 public presentations as part of the effort to prepare the first Assessment report that will envision ocean care for generations to come.

Climate Action Plan Progress

With a 2020 goal to reduce GHG emissions by 10% relative to a 2006 baseline, the Port is well on its way to meeting its near-term target. Based on activities that occurred in 2016, GHG emissions have decreased 13% since 2006. Beyond 2020, the Port will work on aligning long term goals with statewide GHG reduction targets of 40% reduction by 2030 and 80% reduction by 2050.



2018 YEAR IN REVIEW

Port of San Diego Environment 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 keep our waterfront sustainable.

HIGHLIGHTS OF A GREEN YEAR

10 WAYS WE CARED FOR OUR WATER AIR LAND

1



Hosted **1,100 volunteers** during **3 annual clean-up events** who removed **17,800 pounds of trash** from around San Diego Bay

2



Completed **147 stormwater inspections** and facilitated implementation of Best Management Practices for stormwater within those organizations

3



The Port, the U.S. Navy and partners co-managed **1,690 acres of eelgrass beds** in San Diego Bay; this makes up **50% of Southern California eelgrass resources**, and **15% of the statewide eelgrass habitat** which improves water quality and light availability, increases biodiversity and supports healthy ecosystems

4



Demonstrated successful rapid growth and performance of a test batch of **100,000 oysters** in an aquaculture nursery and continued baseline oyster health testing

5



Managed nesting habitat for the endangered California Least Tern; **108 nests** have been observed on Port tidelands

6



Removed **5,000 pounds of trash** from San Diego Bay in a single quarter with the new Marine Debris Removal Vessel

7



Conducted **4 water audits** at Green Business Network member facilities identifying opportunities for **5.3 million gallons of water savings** and **\$78,500 of cost savings** annually

8



Collected, stored and properly disposed of over **15 tons** of hazardous wastes in 2017

9



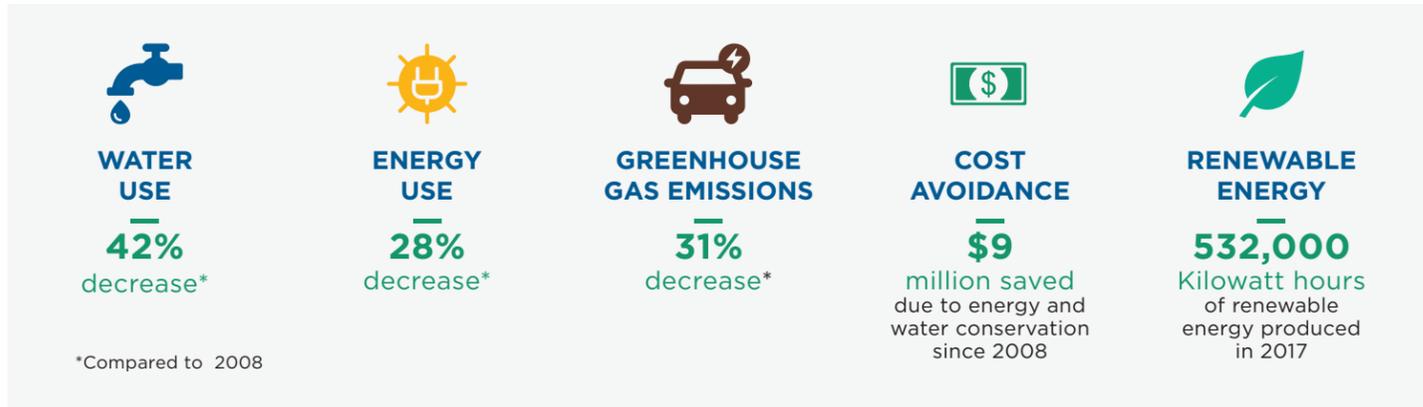
Decontaminated and demolished almost **50 derelict vessels** in San Diego Bay in the first 6 months of 2018

10



Restored Emory Cove habitat in partnership with the San Diego Audubon Society, hosting **60 volunteers** at **2 restoration events**; removed approximately **200 pounds of invasive plants**, replaced with new native plants.

SUSTAINABILITY AT-A-GLANCE



GREEN BIZ ON THE WATERFRONT SUSTAINABLE BUSINESS OPERATIONS MARITIME & OUR WORKING WATERFRONT

A key business at the Port of San Diego is our Maritime industry, including the many industrial businesses that make up our Working Waterfront. Through Green Port programs and support, environmental sustainability is integrated into the daily business operations of San Diego's thriving maritime industry.

Alternate-fuel vehicles

9 zero emission medium to heavy duty electric vehicles and equipment pieces are being used at Tenth Avenue Marine Terminal.

Vessel Speed Reduction Program

Since 2009, **59% of ocean-going vessels** have voluntarily slowed their speed in San Diego Bay **reducing emissions 13% - 19%**.



Clean Truck Program

All trucks are required to meet California Air Resource Board (CARB) emissions requirements in order to access our terminals.

Shore power

Cargo ships at Tenth Avenue Marine Terminal and many cruise ships at B Street Cruise Ship Terminal "plug in" instead of running diesel engines.

NEXT GENERATION OF GREEN STUDENT EDUCATION & COMMUNITY OUTREACH

Environmental Education Program

Funded **11 local programs** reaching approximately **30,000 youth** within the San Diego Bay watershed; Analysis shows a **60% increase in environmental knowledge** across all programs for participants

Stormwater Education Program

Presented stormwater education and BMP training to over **100 groups** on how to ensure storm drains are kept clean and San Diego Bay stays healthy

#ThatsMyBay Pollution Prevention Campaign

Launched social media video outreach series to provide tips on how to keep the Bay clean; the first video garnered **55,119 views** and **109,501 impressions** in just two months



A REWARDING ENDEAVOR GREEN AWARDS

2018 American Association of Port Authorities (AAPA) Communications Awards - Award of Excellence for Community Education/Outreach of the Port Master Plan Update

2018 California Association of Public Information Officers - Excellence in Public Information and Communications (EPIC) Award for Port Master Plan Update

2018 American Association of Port Authorities (AAPA) Environmental Awards - Mitigation Award for innovative marine debris removal system

2018 American Association of Port Authorities (AAPA) Environmental Awards - Stakeholder Awareness, Education & Involvement Award for environmental education program

2018 American Association of Port Authorities (AAPA) Environmental Awards - Environmental Enhancement Award for threatened and endangered species stewardship

2018 SANDAG iCommute Diamond Award-Gold Tier for exemplary employee commuter program

2017 Silver Bernays Award of Excellence for the Port Master Plan Update Community Relations

2018 Air Pollution Control District and Industrial Environmental Association Blue Sky Award for helping clean the air