



Port of  
**LONG BEACH**  
THE GREEN PORT

# Environmental Initiatives

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# GREEN PORT POLICY

AIR, WATER & SEDIMENTS, WILDLIFE, SOIL,  
SUSTAINABILITY, COMMUNITY ENGAGEMENT



# CLEAN AIR ACTION PLAN

DECREASE AIR EMISSIONS FROM PORT OPERATIONS

# 2021 EMISSIONS INVENTORY



↓ DIESEL SOOT



↓ NITROGEN  
OXIDES



↓ SULFUR  
OXIDES



↑ GREENHOUSE  
GASES

THIS WAS DURING A TIME WHEN  
CONTAINER CARGO JUMPED 40%



Compared to 2005 Levels



2030

CARGO-HANDLING EQUIPMENT

ZERO EMISSIONS



2035

ALL PORT TRUCKS

ZERO EMISSIONS



# TRANSITION TO ZERO EMISSIONS

45

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CXDU	210743	
	L5G1	
MAX	32,500	KG
TARE	4,200	KG
WGT.	18,300	KG
MAX	22,700	KG
CB	84.0	CU.M.
CAP.	3,040	CU.FT.

CR0705

CR0705

45

# GRANT FUNDED ZE DEMONSTRATION PROJECTS

- \$331 million secured since adoption of the 2017 CAAP Update
- Projects include:
  - 114 ZE & 9 NZE pieces of cargo handling equipment at POLB
  - 1 battery plug-in hybrid propulsion tug boat
  - 5 ZE and 4 NZE drayage trucks
  - First 2 public truck chargers in the nation
  - 2 Tier III ocean-going vessels
  - Vehicle charging infrastructure for POLB fleet vehicles
  - Workforce training and development
  - ZE infrastructure master planning
- \$224.9 Million CalSTA Grant for Clean Harbor Craft and ZE equipment and infrastructure





# JCCC Microgrid Project



- § Resilience for Port's critical response facility
- § Approved Budget is \$18M
- § California Energy Commission share is \$5M

# JCCC MICROGRID PROJECT





The Green Port Policy

Clean Air Action Plan

Energy Policy



Zero Emissions, Energy  
Resilient Operations

ZEERO



# ZEERO POLICY ELEMENTS

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- Zero Emissions Infrastructure and Power Systems Capital Improvement Program
- Energy assets to ensure continuity and resiliency of critical port operations
- Accelerate deployment of low carbon alternatives for ocean going vessels
- Support state and federal efforts to develop and supply of renewable energy
- Carbon-neutral Harbor Department administrative operation by 2040
- Equitable economic opportunities and public health benefits



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THANK YOU

