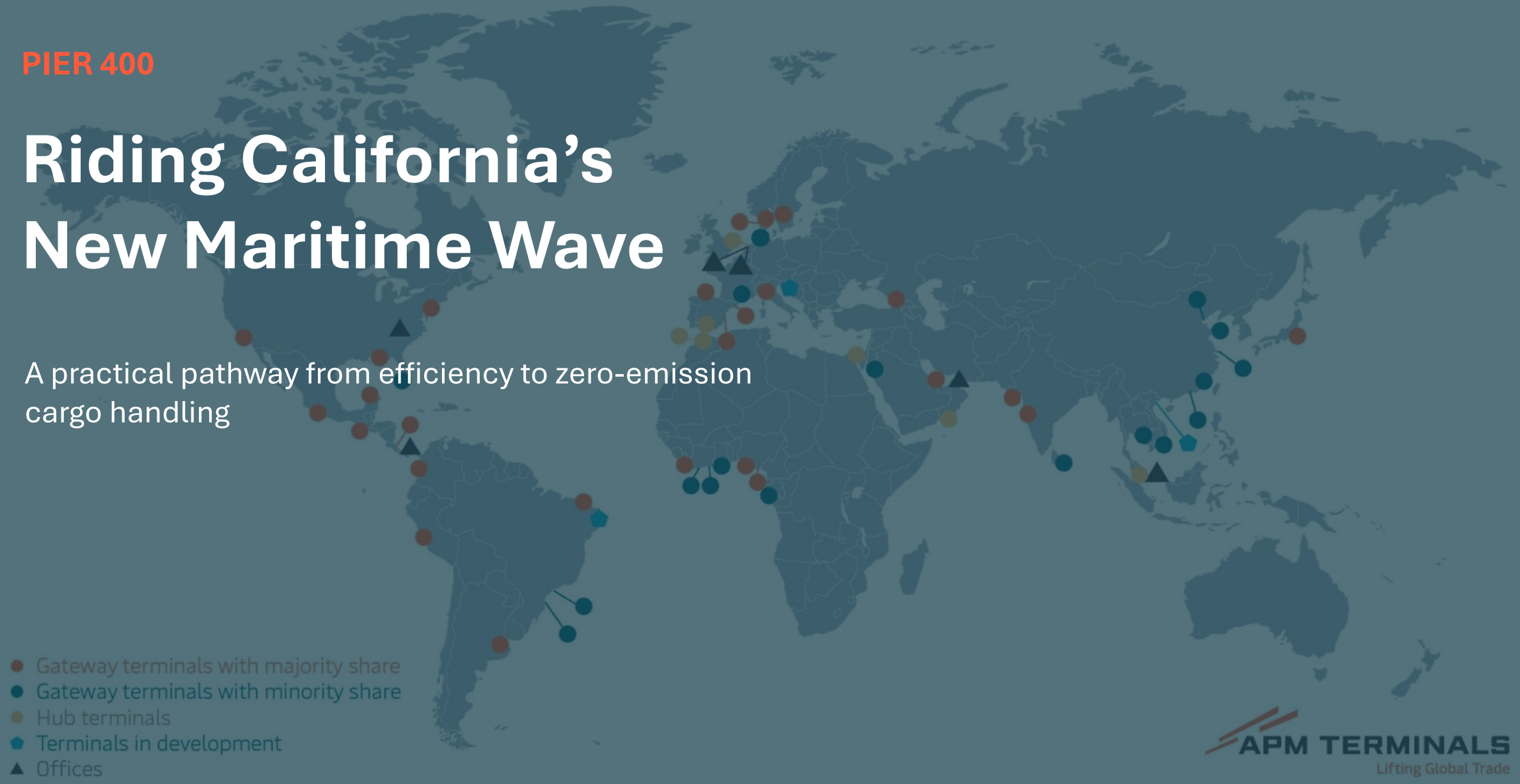
PIER 400

Riding California's New Maritime Wave

A practical pathway from efficiency to zero-emission cargo handling



APM TERMINALS
Lifting Global Trade

Pier 400 is a high-impact place to prove the transition

Scale makes every operational and emissions improvement meaningful.



507
acres

5
dedicated berths

19
ship-to-shore cranes

12
on-dock rail tracks

30%
of POLA cargo moved

65
acres of on-dock rail

OUR **PATHWAY** TO DECARBONIZATION

APM TERMINALS
Lifting Global Trade

THREE **SWITCHES** WE PULL



Improving Efficiency

Reducing fuel and electricity consumption by reducing truck idling times and improving energy efficiency

Shore power for vessels



Electrifying Equipment

Replacing fossil-fuel and bio-fuel driven equipment with battery electric equipment



Employing Renewable Energy

1 MW solar project underway

100% renewable electricity goal through renewable energy credits and utility partnerships.



Goal: to achieve net-zero greenhouse gas emissions

OUR PATHWAY TO DECARBONIZATION

APM TERMINALS
Lifting Global Trade

HOW WE'RE IMPROVING ENERGY EFFICIENCY AND REDUCING TRUCK IDLING TIMES



Energy efficiency: replacing terminal lighting with **LED lights**, leading to 800MwH electricity savings annually



Reducing truck idle time: transition to **Trucker Exchange Lanes**, eliminating one third of on-terminal truck miles driven – leading to significant reduction in diesel emissions



Providing partner incentives: Three dedicated **clean truck express lanes**, saving truckers' time

~12% of trucks visiting Pier 400 are ZE or near ZE



Only dedicated **Clean Truck Express lanes** in the port complex

DECARBONIZATION: HOW WE **REPLACE**

APM TERMINALS
Lifting Global Trade

WE'RE MOVING TO BATTERY ELECTRIC EQUIPMENT AND VEHICLES



Electric vehicles and charging infrastructure

Growing fleet of electric CHE and vehicles – 99 total (20% fleet)

59 charging stations



Hybrid straddle carriers

130 hybrid-electric straddle carriers

4 fully electric straddle carriers



Electric equipment in rail

Investing in additional 64+ pieces of human-operated electric cargo handling equipment

Terminal Emissions Progress

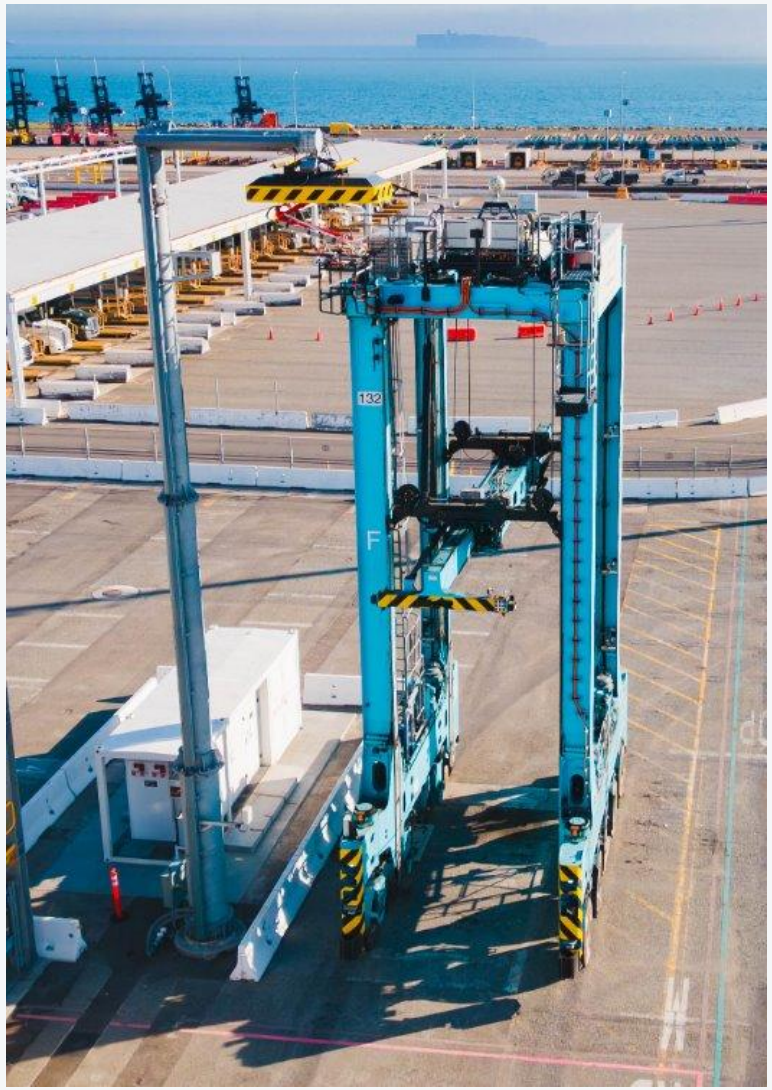
(Since 2017)

Diesel Particulate Matter (DPM)	Nitrogen Oxides (NOx)
Down 61%	Down 82%

Sulfur Oxides (SOx)	Greenhouse gases (GHG)
Down 56%	Down 59%

Charging infrastructure turns electric assets into an operating system

The design challenge is power, location, uptime and shift integration, not simply charger count.



42
EPA CPP chargers

38
CEC chargers

20
Pantograph chargers

Design principles

- Place charging where equipment naturally pauses
- Use opportunity charging for high-volume days
- Coordinate load, permitting and interconnection early
- Build monitoring and workforce capability into deployment

The transition is powered by people and partnerships

Technology deployment succeeds when operations, maintenance, labor, utilities and public agencies move together.



WORKFORCE

Train teams to safely operate, maintain and repair next-generation equipment.

UTILITY + PORT

Sequence grid upgrades, substations, permits and charging construction.

GRANT FUNDING

Use EPA and California programs to accelerate commercially viable deployment.

COMMUNITY

Connect cleaner operations to local air quality and shared benefits.

THE NEXT WAVE IS ALREADY UNDERWAY

Pier 400 is showing how a major marine terminal can decarbonize while protecting reliability, productivity and the communities around San Pedro Bay.

NOW

Scale proven electric equipment and charging

NEXT

Expand clean power and grid capacity

FUTURE

Phase in the remaining zero-emission systems as technology and infrastructure mature

Efficient. Electric. Collaborative.