

PhilaPort's Energy Sustainability Initiatives



Presentation to Northeast States for Coordinated Air Use Management

January 26, 2026



Port Facilities by Commodity

Container Facilities

- (1) Packer Avenue Marine Terminal
- (6) Packer North
- (13) Tioga Marine Terminal

Ro/Ro Facilities

- (2) Philadelphia Auto Processing Facility
- (3) Southport Auto Terminal
- (5) Pier 122

Breakbulk Facilities

- (7) Pier 96, 98 & 100
 - (8) Pier 84
 - (9) Pier 82
 - (10) Philadelphia Forest Products Center
 - (13) Tioga Marine Terminal
- *Piers 74 & 78 & 80

Liquid Bulk Facilities

- (4) Pier 124
- (15) Tioga Liquid Bulk Terminal

Other Properties

- (11) PhilaPort Distribution Center
- (12) Conrail Loop Track
- (15) PhilaPort Main Offices
- (16) 3200 E. Tioga
- (18) Philadelphia Wholesale Produce Market
- (19) Southport/Mustin Expansion

Our Port (Today)



Total Area
1,100
acres

12,000
Total Jobs



66,000

Jobs generated from
combined Maritime
Industry Impact (PA
wide)

Major Import Commodities



Containers



Cocoa



Forest
products



Steel/project
cargo



Automobiles



Perishables

\$1.5B

In total
economic
impact

7.4M

metric tons
Annual cargo throughput in
2025



45-foot
Channel Depth
Delaware River
Channel

Over
1,150

Vessel call annually

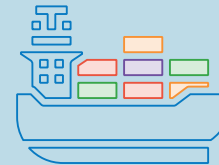
15

Deep water
berths



16,000+
TEUs

Maximum ship size



\$320,831,760
total tax impact

Key Initiatives



Implementing the zero-emission equipment + supporting infrastructure and planning for EPA Clean Ports



Pilot program includes 4 electric terminal tractors



Completed initial emissions modeling for cranes & terminal handling equipment



Ongoing partnerships to explore alternative fuel options for port equipment



Converted 2 STS cranes from diesel to electric [INFRA 17]

Future Sustainability Initiative

Clean Air Quality Planning Study (U.S. EPA Clean Ports Program)

Comprehensive \$2M / 1-Year Study Across All Port Facilities

- ❖ Emissions Inventory & Planning Document
- ❖ Site & Infrastructure Readiness
- ❖ Long-Term Zero-Emission Infrastructure Strategy
- ❖ Workforce Development & Impact Analysis
- ❖ Community & Stakeholder Engagement

Firm selected

Kicked-off
December 2025

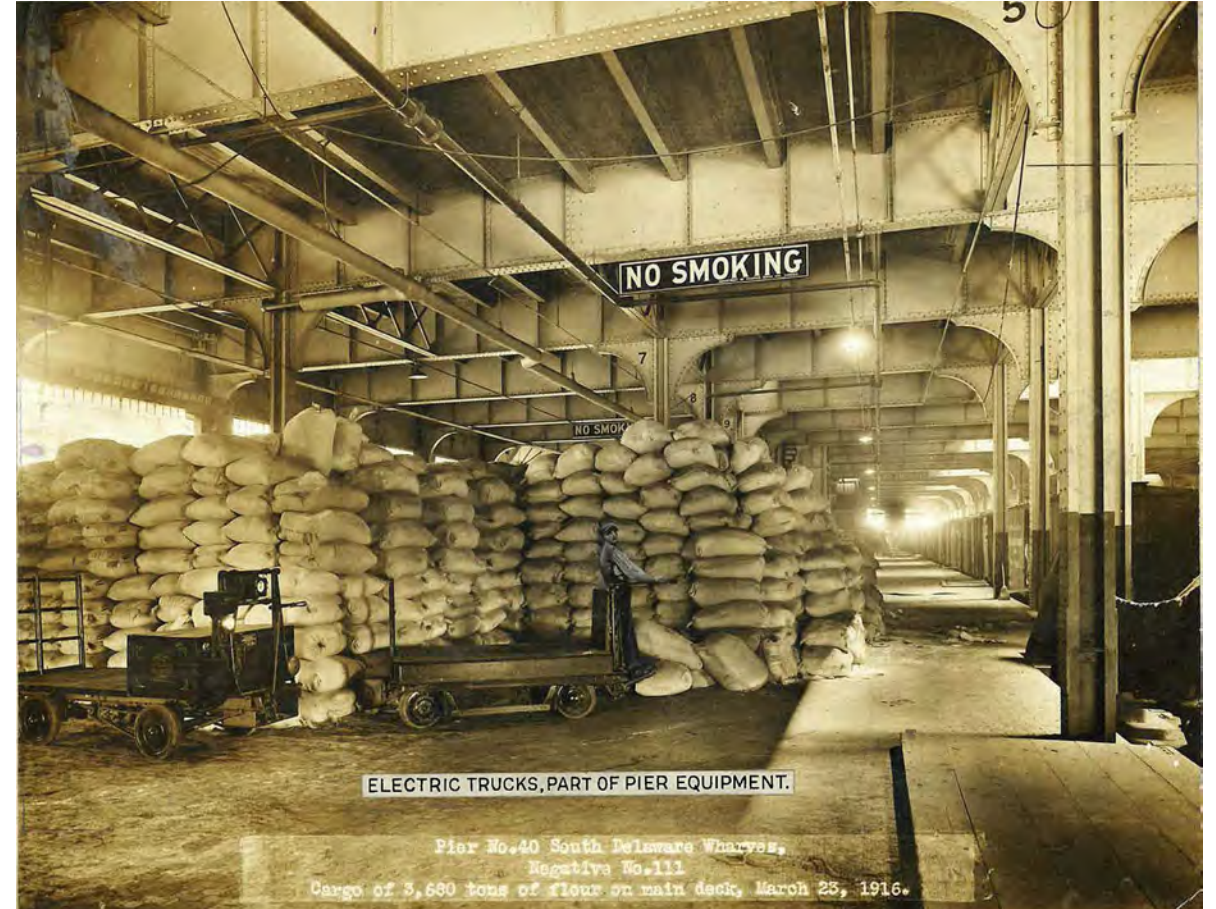
Finish April
2027



Zero Emission Technology

Strategic Transition to Electrify the Port of Philadelphia (STEPP)

- ❖ \$77,650,956 award
- ❖ ZE Cargo Handling Equipment (CHE)
- ❖ Electrical site infrastructure improvements on 4 terminals to support new CHE



Zero Emission Deployment



Northern

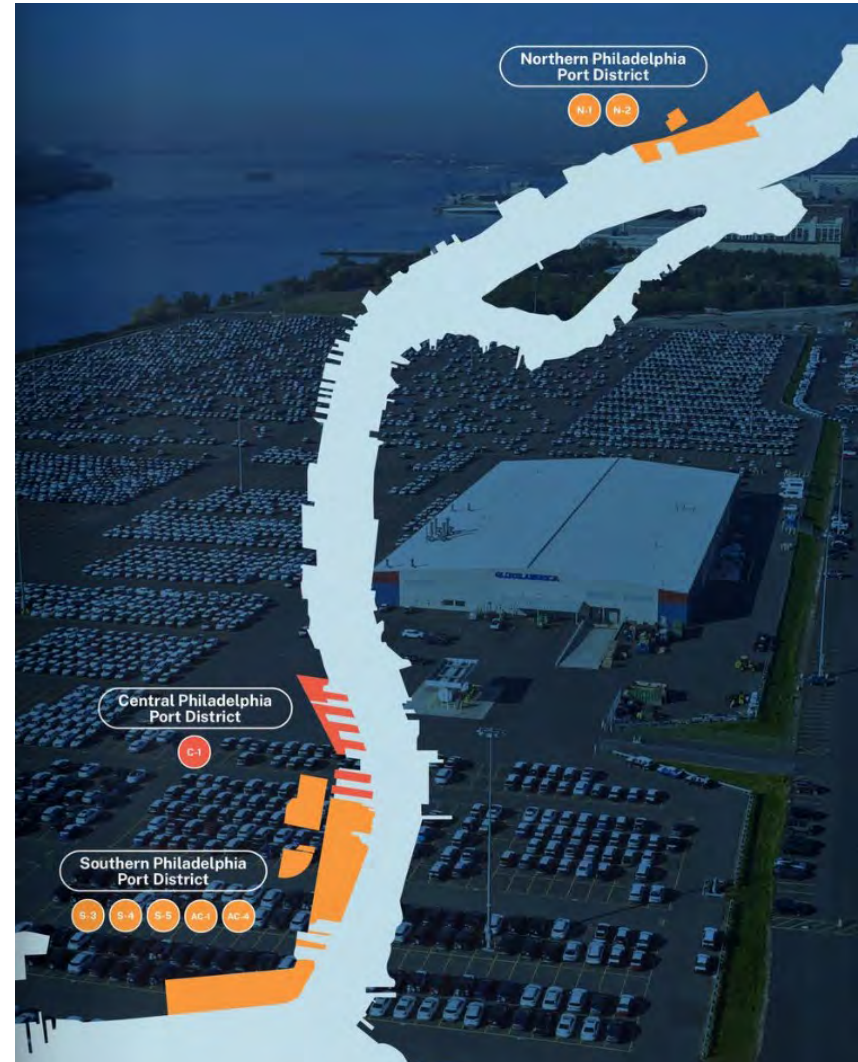
- ❖ 10 Forklifts & chargers
- ❖ Rail Car Mover & charger

Central

- ❖ 2 Yard Trucks & chargers

Southern

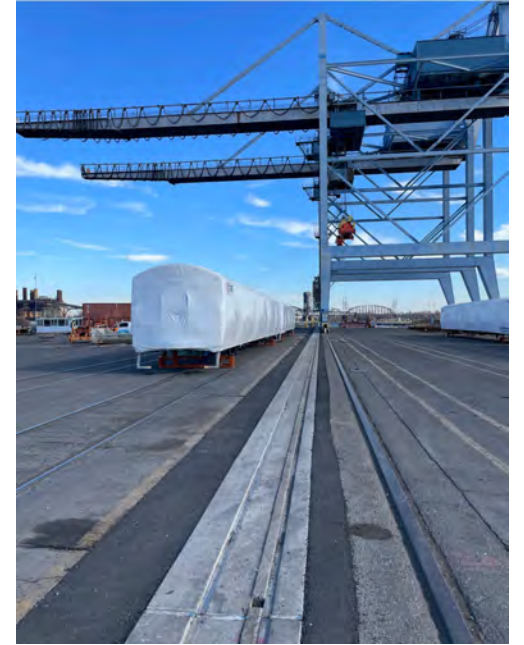
- ❖ 24 Yard Trucks & 12 chargers



Zero Emission Deployment

Ship-to-Shore Cranes

- ❖ Procurement paused due to BABA compliance
- ❖ Actively seeking a BABA waiver
- ❖ Timeline - TBD



Zero Emission Deployment

Anticipated Outcomes

Activities	NO _x	PM _{2.5}	CO ₂	Diesel Consumption
Deployment of mobile CHE	(1,000) lbs.	(70) lbs.	(1,040) tons	(92,650) gallons
Deployment of STS cranes	(2,850) lbs.	(140) lbs.	(630) tons	(56,120) gallons



Zero Emission Deployment

Challenges

- ❖ Outdated or missing as-builts
- ❖ Utility load analysis and design choices
- ❖ Long lead times for switchgear and transformers
- ❖ Build America, Buy America Compliance
- ❖ Future terminal and grid capacity
- ❖ Alternative fuel choices

Strengths/Opportunities

- ❖ Legacy reefer & warehouse systems
- ❖ Positive tenant feedback



Q & A

Learn more at:
www.philaport.com

