



# **AGLPA 2023 Annual Conference**

## ***Emissions Reduction Strategies***

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Systems**

# Port of Cleveland *Global Reach. Local Benefits.*



*The Port of Cleveland spurs job creation and helps our region compete globally by connecting local businesses to world markets through the most cost-effective method of freight transportation in the region.*

- 13.45 million tons of cargo
- 22,000 jobs
- \$4.7 billion in annual economic activity
- \$240 million in annual local/state taxes

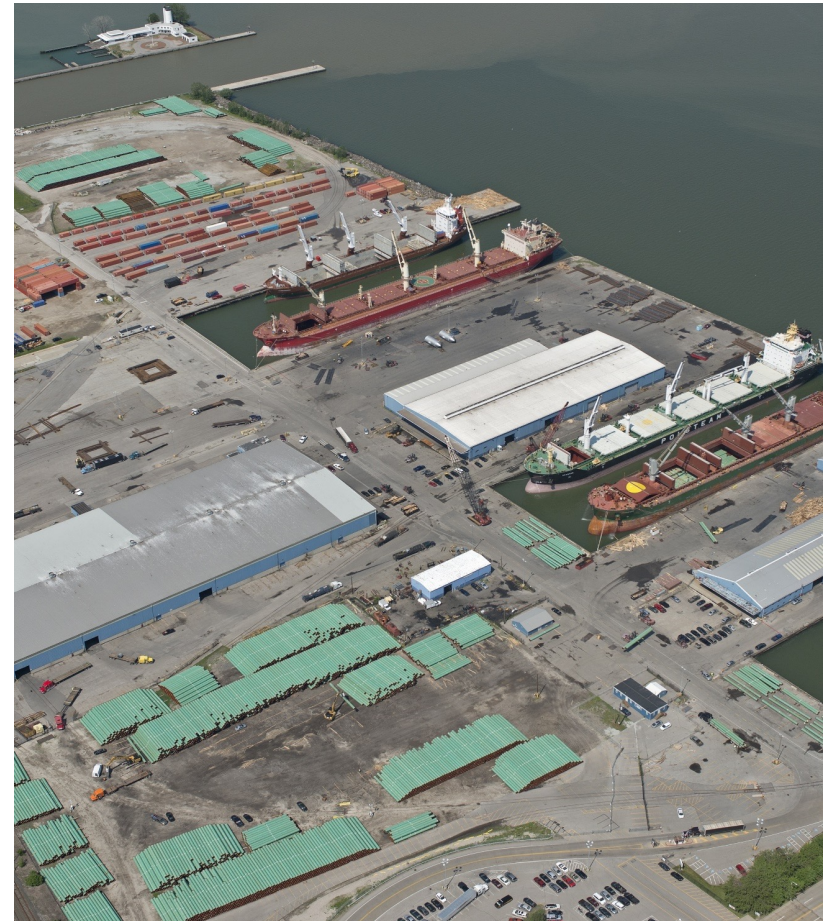
# Port of Cleveland *Maritime Business*





# Maritime Business *General Cargo Terminal*

- Terminal Operator: Logistec, USA
- 400-650,000 MT annually
- 80 acres
- Cargoes
  - Breakbulk
  - Containers
  - Dry bulk
  - Liquid bulk (new in 2023)
  - Heavy machinery
  - Finished/semi-finished steel
  - Project cargo
- 40-50 cruise calls annually



# Maritime Business *Cleveland Bulk Terminal*



- Terminal Operator: Logistec, USA
- 45 acres
- Primarily iron ore, feeder to Cleveland Cliffs
- Automated ship loading and conveyance system
- Up to 6-7 million tons throughput

# Environment & Sustainability *Current/Past Initiatives*

- Founding member of Green Marine, active since 2007
- Development of Cleveland Lakefront Nature Preserve
- Repowering/replacement of cargo handling equipment
- LED conversions, dusk to dawn sensors
- Icebreaker wind project support
- Collaboration with Great Lakes Towing to repower tugs
- Main gate improvements resulting in reduced congestion





# Environment & Sustainability *Ramping Up Efforts*

- Why is it important to reduce emissions?
  - Maintain overall competitiveness of the Port
  - Grant/funding opportunities
  - Lower impact on surrounding communities
  - Stay ahead of regulations
  - Need to start planning now to be prepared for future investments



# Climate Action Planning *The Process*

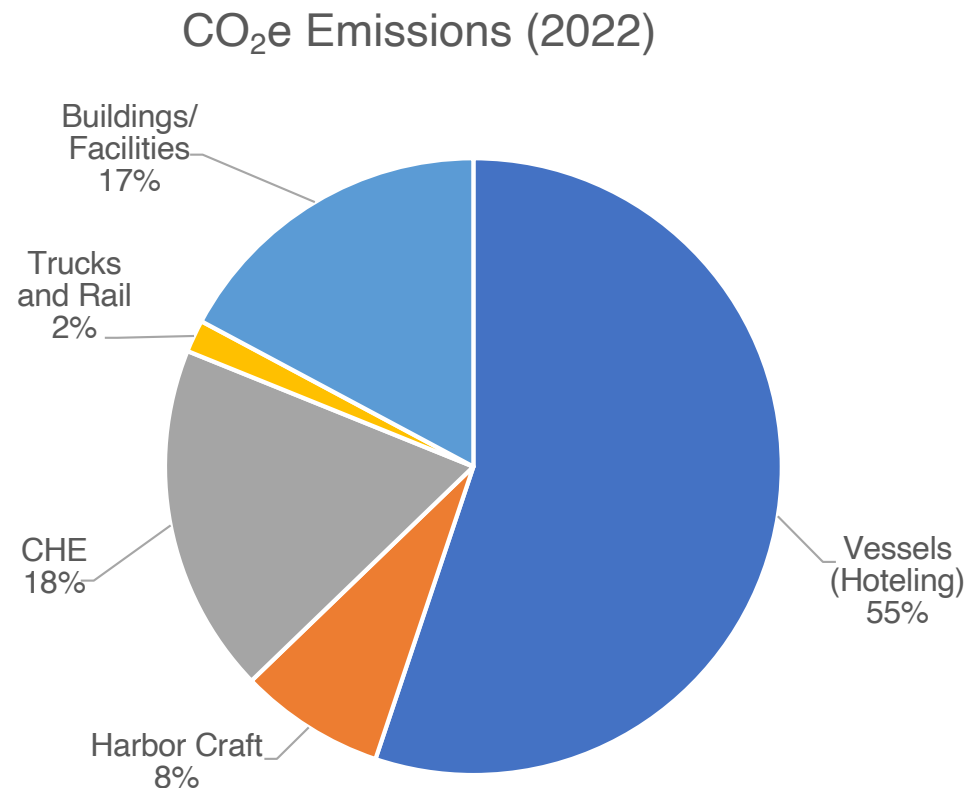
- Comprehensive emissions inventory of mobile and stationary sources
- Review regional stakeholders' and partners' climate action plans
- Determine scope of control and reduction goals and targets
- Develop strategies and actions to accomplish goals
- Implement and monitor





# Climate Action Planning *Port of Cleveland's Plan*

- Net-zero emissions (Scope 1 and 2) by 2050
  - Encourage and incentivize Scope 3
- Strong alignment with Capital Improvement Plan and Green Marine Framework
- Partnership with Cleveland Public Power
- Revisit every 5 years



# Electrification & Warehouse A Modernization Project



- \$27.2M FY 2022 PIDP grant
- Electrification & Net-Zero Emissions Master Plan
  - Funding strategies
  - Technology evaluation
  - Renewable energy generation/procurement
  - Rate and tariff analysis
  - Resiliency
- Electrical infrastructure upgrades to be prepared for fleet transition, cold ironing, etc.





# PORT CLEVELAND

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