

"FOR EVERY ORGANISATION TO ACTIVELY DECARBONIZE"

AGLPA CONFERNECE



Presented to you by

MARK SCHRUPP, DR ROBERT MOORCROFT & DR WILLIAM BEER



OUR VISION IS:





The Need: The Maritime Industry, including ports, must do their part to reduce global greenhouse gases

Currently at 3% of total GHGs and expected to increase as international trade increases.







The Case For Great Lakes Decarbonization

a.Decarbonization is not just a coastal port issue
b.Federal, State and Local entities are expecting decarbonization of all industries
c.Fortune 500 companies with vast supply chains are also expecting it
d.Funding is available





The Idea: Develop a Decarbonization Plan for the Port of Detroit that encompasses all aspects of cargo movement and entities related to port activity

- a.All private terminals and the one public terminal
- b.Cruise ships
- c.Gov't police & fire ships, coast guard and Army Corps of engineers





The Cost of Developing Plan and Where's The Funding?

a.SWAG - \$1 million b.State Legislature i.Find a champion for the cause ii.Federal Money is too slow







Challenges

a.Port Authority has very little leverage.

i. Handles less than 4% of Port of Detroit Cargo

ii.Does not have leases with terminals b.No state law requiring participation

- c.Terminals are competitors and don't want to share information or be compared with each other.
- d.Do we also include particulate matter, noise and sound pollution – a very real issue in Detroit. Yes!















Get a community partner – the plan is about health of the community, workers and visitors in port region







Strategies... so far

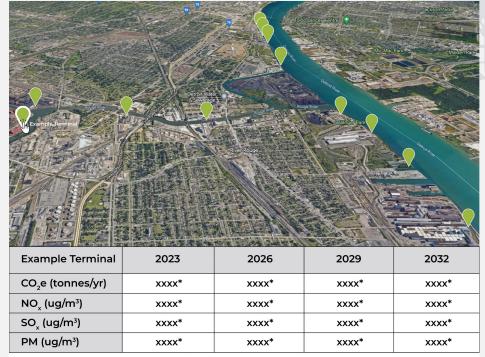
- Demonstrate commercial benefits
 - Cost-benefit analysis
 - Availability of grants
 - Market share
 - Community relations
- Address Business Concerns
 - Non-disclosure agreements
 - Listen to concerns before suggesting outcomes
- Include improvements to air quality, decrease in truck traffic, noise etc.,
- Personalized engagement.



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Project Aims Development Toolkit

- Roadmap to Net Zero for Port activities by 2040
- Inclusion of all Port Terminals
- CO₂e and air quality
- Values given until 2040 for carbon reduction strategies



*xxxx - Your data will be collected and in-putted here.







INTERNATIONAL MARITIME ORGANIZATION **AGLPA** CONFERENCE

07 July 2023

Revised GHG reduction strategy for global shipping adopted

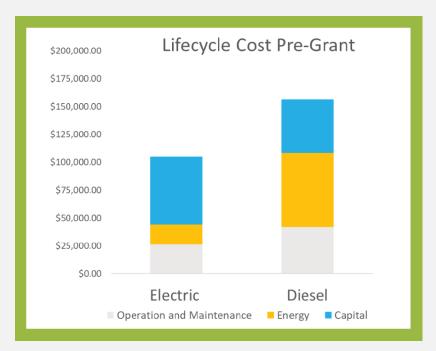




• Intermediate targets for 2030 and 2040

https://www.imo.org/en/MediaCentre/PressBriefings/pages/Revised-GHG-





Cost savings of electrification – LCA analysis https://forklift.epri.com/

Cost?

Grants

 EGLE – 50% capital expenditure for low carbon goods handling equipment

- EGLE Clean Diesel Grant
- Department for Transportation (x5)
 - E.g., Reduction of Truck Emissions at Port Terminals & Congestion mitigation and Air Quality



Tunley Engineering - About Us



- PhD Scientists!
- Over 120 assessments completed
- We are Net Zero
- 1:7500 intensity ratio
- Published more than 150 times in 2 years

- Target 1bn kg CO₂e by 2025
- Excellent marketing knowledge
- \$1 Million Saving, Green Award
- <u>Tunley Website</u>





Thank You!

Any Questions?



