



Salem Wind Port

Salem Harbor Port Authority

April 6, 2023 1700

Agenda

- **INTRODUCTIONS**
- **CURRENT PROJECT STATUS**
- **COMMUNITY OUTREACH**
- **ENVIRONMENTAL IMPACT**
- **OPERATIONS**
- **CONCLUSION**
- **QUESTIONS AND ANSWERS**

Introductions

Salem Port Development



- Port Design/Construction
- Port Operations
- Vessel Operations and Management



- First lease holder at the port, once construction is complete.
- Will use the site for marshalling of Offshore Wind component parts



City of Salem

- Salem Harbor Port Authority
- Cruise Operations
- Community Benefits Agreement

* All parties will share in workforce development, community engagement, grants/funding, etc.

Current Project Status – Permitting, Design and Construction

Required Permits & Status



Agency	Scheduled Date
Local	
Salem Conservation Commission	NOI – February 2023 - Open
Salem Planning Board	Submit April 2023
State	
Executive Office of Energy and Environmental Affairs	MEPA Certificate (EENF-Nov. 2022) on Single Environmental Impact Report – SEIR – April 2023
Massachusetts Department of Environmental Protection	Chapter 91 License and Dredge Permit – April 2023 401 Water Quality Certification – April 2023
Massachusetts Office of Coastal Zone Management	Coastal Zone Management Federal Consistency Review – April 2023
Federal	
U.S. Army Corps of Engineers	General Permit (USACE Section 10, 103, 404, and 408) – In progress
Federal Aviation Administration	June 2023
U.S. Environmental Protection Agency	June 2023

Phasing & Timeline

The Salem Offshore Wind Terminal will be developed over the course of 3+ years. We anticipate the following timeline that is subject to change.

Design:

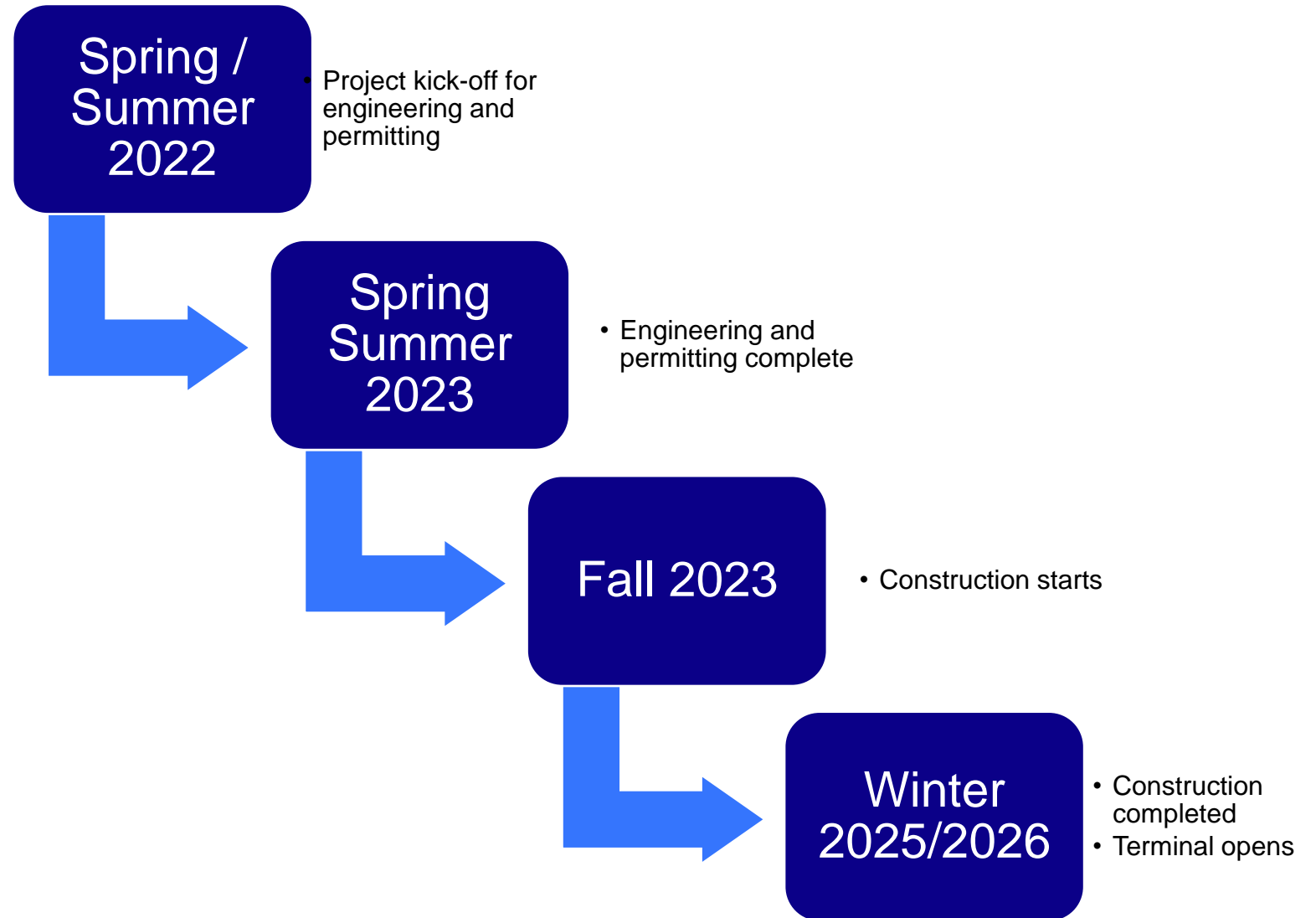
- 90% Package - April 2023
- 100% & IFC Drawings – May/June 2023

Permitting:

- Landside permits – July 2023
- Pile Driving – July 2023
- Dredging – June 2024

Construction:

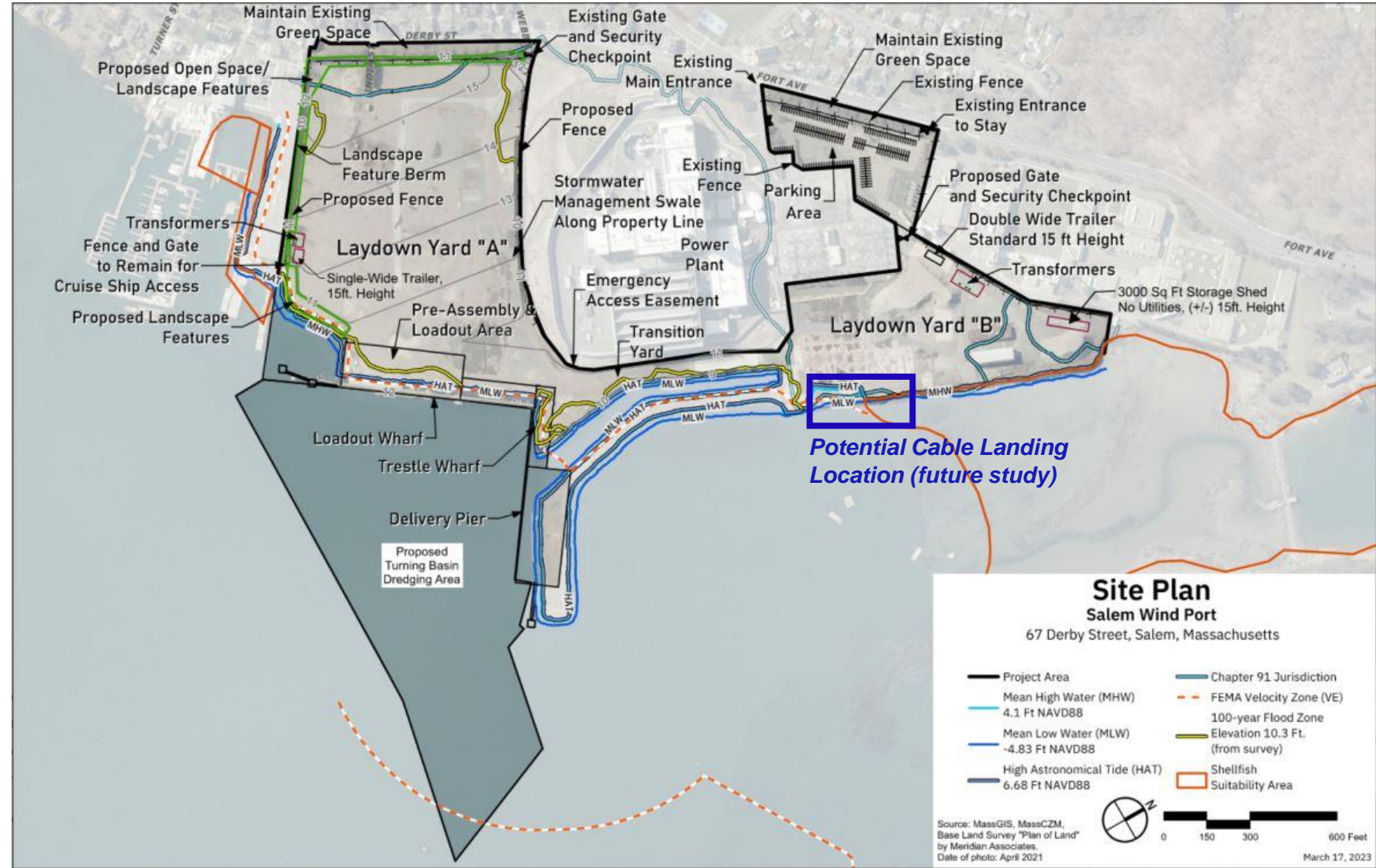
- GC Qualifications – In progress
- GC Procurement – End Q2/Q3 2023



Site Plan

- **Design Updates:**

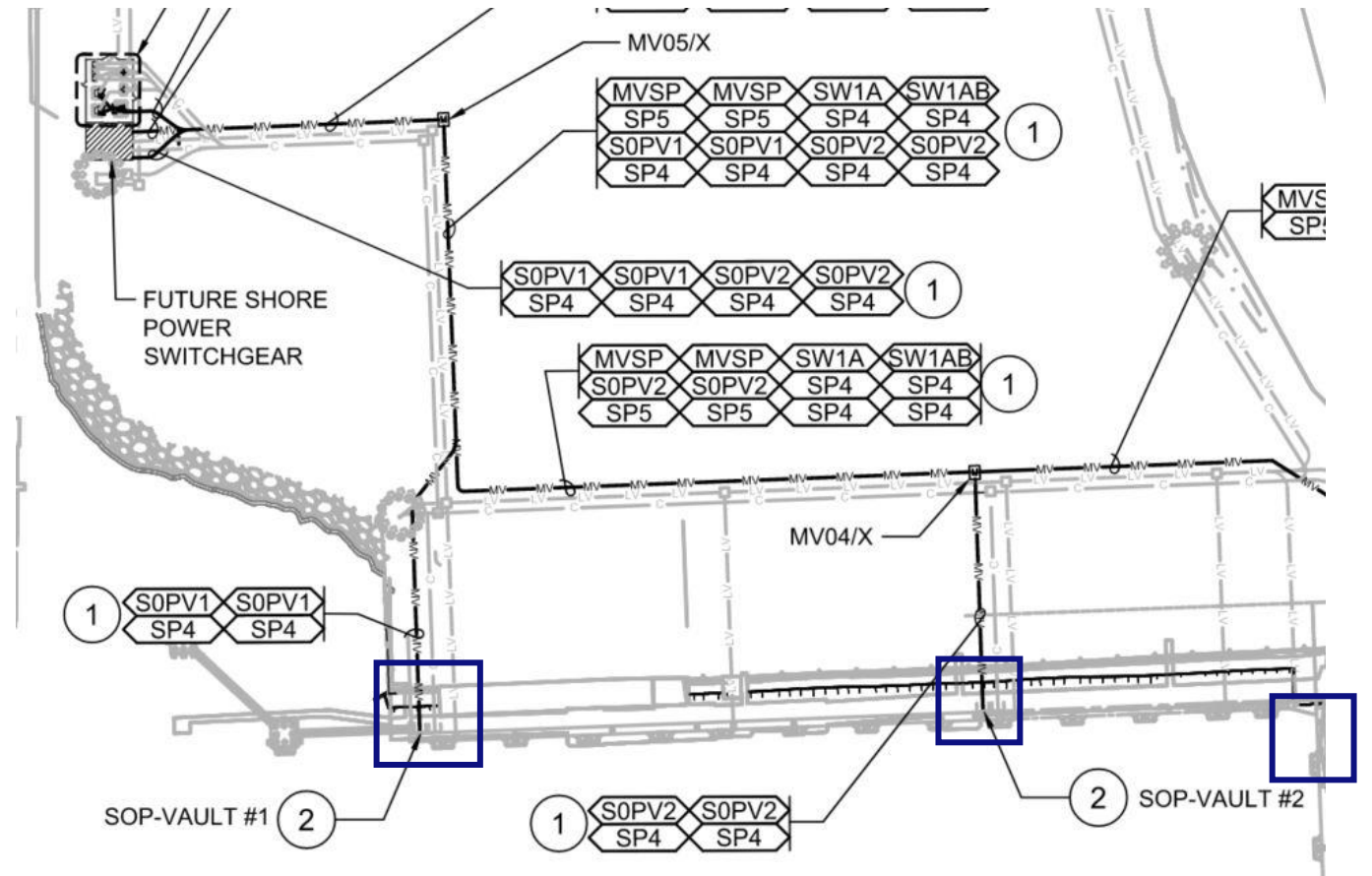
- Electrical infrastructure to support shore power (cold iron)
 - See next Slide
- NO Change in Layout or function.
- Location for potential cable landing for renewable energy shown – potential future study
- Developing the green landscaping areas around the borders



Design Details

• Design

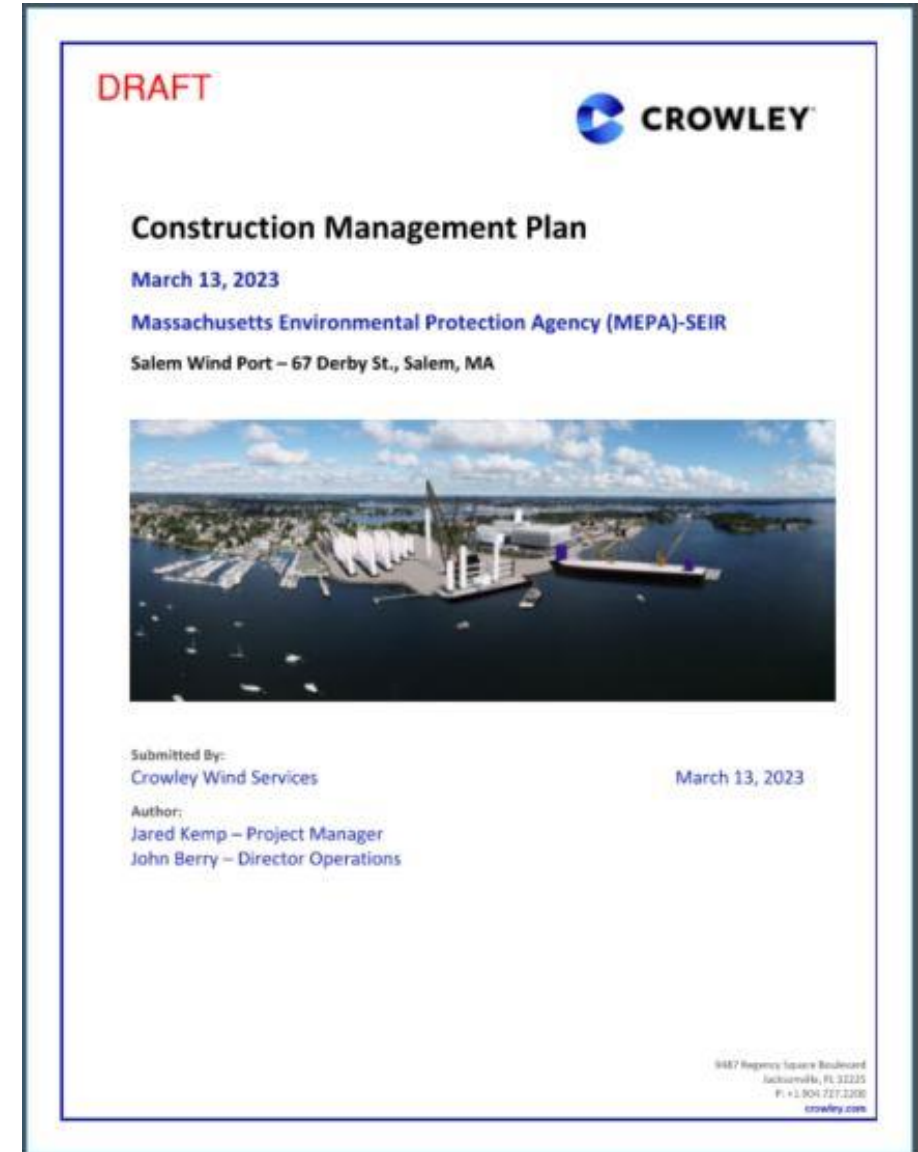
- Electrical infrastructure to support shore power(cold iron)
 - Tugs – Feeder Barges
 - Larger Vessels – future
 - Locations shown may adjust in the final package
 - AECOM is at the forefront of Port electrification and infrastructure, and they are helping us put the best design forward and continue to make this port as green as clean as possible
 - Site equipment out to 3rd party – electrification of equipment unknown at this time
- Impacts - Lighting impacts and visual impacts are a focus this stage in design
- AECOM looking at sustainability standards
 - Envision
 - WEDG



Salem Wind Port – Construction Management Plan & Construction Phase

Construction Management Plan:

- Traffic Study Conducted – Updated from EENF
- Material Deliveries via Water vs streets
- Allowable Working Hours (*anticipated*)
 - 0700 to 1530
 - Work with City on approved hours
 - Traffic Impact Mitigation
- Point of Contact – project site specific
- Prior to Construction Commencement –
 - Document Neighborhood and Local Structures
 - Noise Study & Mitigation Measures
 - Air Quality Study (in SEIR)
- During Construction –
 - Coordination with City & Neighborhoods on activities & impacts
 - Look-ahead schedules



Community Outreach

Community Outreach



Salem High School CTE

- Letter of Support: Massachusetts Skills Capital Grant Program
- MOU: Crowley to provide support of CTE programs



Essex North Shore Agricultural and Technical School

- Electrical Program Advisory Committee
- Crowley to Support CTE programs with site visits and introduction to the offshore wind industry



Salem State University, Massachusetts Maritime Academy

- Letters of support for expansion of programs to support the offshore wind industry
- Offshore Wind industry training



Community Outreach

Memberships

- Salem Partnership
- Salem Chamber of Commerce

Supporting

- Salem Pantry
- Destination Salem
- Salem Main Streets

Participations

- Farmers Market
- Salem Maritime Festival
- Salem 400
- LEAP Summer Work Program – Mentor



Meetings and Presentations

- Historic Derby Street Neighborhood
- Willows Neighborhood
- Point Neighborhood
- Salem Rotary
- Salem Chamber
- Salem Partnership
- Salem City Council
- Marblehead Town Meeting
- Youth Build North Shore Community Development Coalition
- Salem Alliance for the Environment
- Virtual Public Meetings
- Salem News interviews
- MASSHIRE North Shore Workforce Board
- Mass Bay Harbor Safety Committee
- Congressman Seth Moulton
- Senator Elizabeth Warren
- United Kingdom General Counsel
- Salem Harbor Port Authority
- Essex County Community Foundation
- Senator Joan Lovely and Representative Manny Cruz

Environmental Impact

Sustainability At Crowley

Bravely Advancing What's Possible to Elevate
People and Planet



Environment

Reduce our Impact

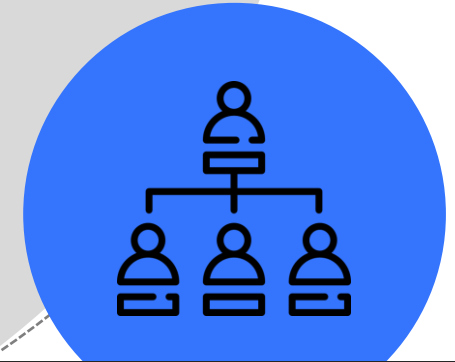
Reducing greenhouse gas emissions and ensuring clean operations throughout our value chain are core to being a responsible operator in the face of a changing climate.



Social

Grow Responsibly

Addressing the impacts of our business on society and providing for our employees enables us to better attract and retain diverse and innovative talent.



Governance

Be Accountable

Championing human rights and driving a culture of empowerment and transparency throughout our organization increases our resilience.

Crowley Committed to 2050 Net-Zero Commitment

- Crowley has committed to net-zero greenhouse gas emissions across all scopes by 2050, pursuing a path aligned with the latest climate science to limit global warming to 1.5 degrees Celsius
- Partnered with the Blue-Sky Maritime Coalition and the World Shipping Council to evaluate maritime value chain and global container shipping industry
- Approach includes the development of an all-electric tug and introduction of alternative energy vessels



Salem Wind Port – Environmental Impact Study

Truck Emission Study:

- Data will be in the SEIR
- Truck trips are down and should therefore help mitigate GHG's from large diesel trucks

Vessel Emission Study:

- Data will also be in SEIR
- Completed and ran on the scenario that not all large vessels will be cold ironed.

Air Quality Study:

- Data not available yet, but we are looking to present information later this month

Noise Study:

- Procuring services for a noise study and scope to mitigate noise



Salem, Massachusetts

Figure 8-15
Construction Truck Route Map
Source: MDM Transportation Consultants, Inc., 2022

Operations



Operations

- Details are still pending, Developer needs to choose OEM
- Possible 3rd Party support or Partnership
- Every effort to minimize emissions through electrification of equipment will be made
- Staggered Shifts to minimize traffic will be explored.
- Some activities will take place on 24hr schedule (vessel ops / preassembly)

Conclusion

Conclusions

Challenges + Risks = Opportunity

Funding:

- \$110mm Public Funding More needed
- Value Engineering needed to keep project **GO**

US OSW:

- Nascent Industry with high level of investment
- Projects are effected by market conditions

City – State (CEC):

- Ongoing negotiation and collaboration with City
- MASS CEC agreement

Please support our project:

- Crowley Team working hard to develop trust and authentic relationship with community.





Thank you for your time!
Q&A

[Website: www.salemoffshorewind.com](http://www.salemoffshorewind.com)

Questions: info@salemoffshorewind.com