

**Lisa Wunder
Acting Director of
Environmental
Management**

January 11, 2024



Hybrid Electric Tugboat

Crowley Marine Services

**THE PORT
OF LOS ANGELES** 

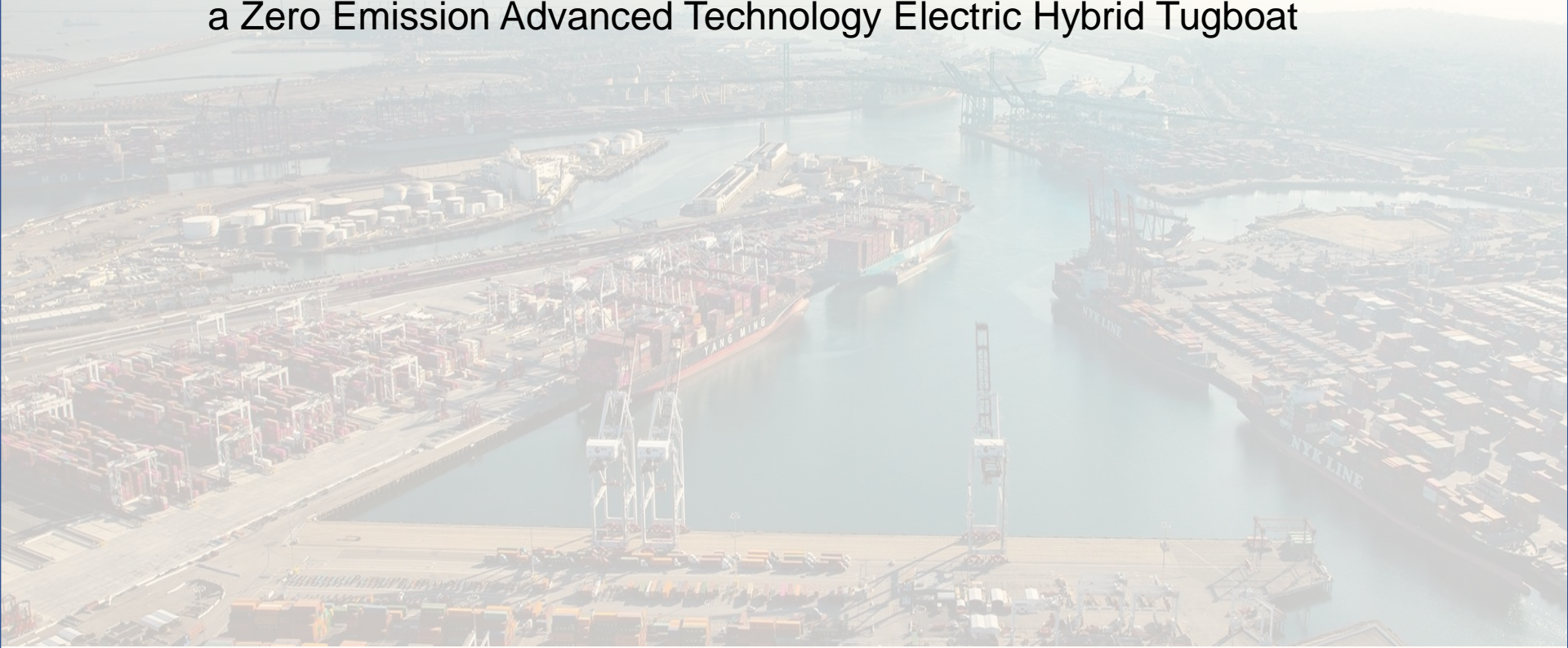


**Technology Advancement
Program & Cost Share
Agreement**

Board Action



- I. Approval of Technology Advancement Program (TAP) Cost Share Agreement between POLA and Port of Long Beach (POLB) to fund a Zero Emission Advanced Technology Electric Hybrid Tugboat





Cost Share Agreement

- Total proposed project Cost: \$31,410,000
- Total TAP contribution: \$1,500,000
- Contribution per port: \$750,000

Crowley	\$15,705,000 (50%)
POLB ZANZEFF:	\$ 2,940,000
Other (DERA, TAG, PFIP, etc.)	\$11,265,000
POLA TAP	\$ 750,000
POLB TAP	\$ 750,000
TOTAL	\$31,410,000



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THANK YOU