

NORTHERN MARINE, LLC

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Subject: Sustainability Snapshot

This white paper is the cumulation of several weeks of evaluation of sustainability initiatives across all divisions of Northern Marine and learning how to capture, quantify, and present data. It is the first comprehensive look at the way we operate regarding environmental impacts. This is by no means complete, but will serve as a basis for future adaptation, growth, and fine tuning. This will serve as a significant indication of how we are performing as stewards of our environment, and we hope it will serve as an indicative tool for ourselves and our customers.

This data was derived from imperial evidence (contractor provided studies, US Government agency developed calculators, industry calculators) and some internal estimations that will prove out over time and is a comparison look of, for example, diesel or gasoline versus electric rather than a total greenhouse gas (GHG) consumption compared to "pre-initiative" levels.

For calendar year 2024, it is estimated that, across all business lines, we will achieve **734.26 metric tons of CO₂** offset (MTCO₂). ***This is equivalent to a Boeing 747 flying from New York to LA 11.3 times.*** This figure comes from several initiatives categorized as:

- Vessel Fuels. Our marine vessels operate on a varying degree of biodiesel (11% until March, then 14% after). We consume 413,116 gallons of fuel this year, of which 50,100 is bio-derived fuels. Leading to 394 MTCO₂, by far our largest environmental impact.
- Vessel efficiency. We assume that by operating slightly more efficiently than market standard and by infrastructure improvements (i.e. Seneca mooring pins), we achieve 5.2% efficiency gains which lead to a further 27.06 MTCO₂ offset.
- Shore power for vessels led to an estimated 20,300 gallons of diesel fuel savings which attributes to 208 MTCO₂ diversion. This data is extrapolated from data derived after October 2024 (Tow Works functionality added and leadership emphasis of use beginning in September, a 1.5x on 5 months of data was used).
- Facility LED conversions at Slip 4 in Lemont are leading to 89.4 MTCO₂ savings.
- The conversion of half of our vehicle fleet to battery electric vehicles (BEV) attributes 15.8 MTCO₂.

Future additions to this ever-evolving list include- addition of 2 marine vessels in 2025, conversion of a barge to a super heavy drydock to allow Lake customers to reduce their transit distance to a drydock of similar size, electrification (shore power) at Lemont Slip 4 and South Chicago, Seneca, wide use of shore power tracking in Tow Works, consolidation of staff to 1 facility, and B17 fuel implementation starting April 1st.

While this study is not comprehensive and represents a 'first attempt' by the Company leadership to ascertain our sustainability, it does represent a seismic shift in thinking and approach by keeping sustainability metrics in the decision-making processes of the businesses.