



PORT NOLA
THE PORT OF NEW ORLEANS

GREEN SUPPLY CHAIN REPORT

July 2022



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INTRODUCTION

The Port of New Orleans is committed to sustainable development. We are making strategic investments in infrastructure to support economic growth while balancing the needs of industry stakeholders, our neighbors, and our natural resources.

Our award-winning environmental programs are not only Green Marine Certified, but also third-party audited.



ENVIRONMENTAL SUSTAINABILITY

As a result of our strong commitment to smart growth and to serve as a gatekeeper of over 30 miles of urban waterfront, we are proud to present our very first sustainability-focused "**Green Supply Chain**" report that provides a snapshot of all the sustainability initiatives deployed across the Port network.

Since 2014, Port NOLA has been an active member of **Green Marine**, a voluntary environmental certification program for the North American maritime industry. Green Marine certification requires an independent audit and provides a framework for continual improvement of our environmental performance and community engagement.

The Port of New Orleans is committed to driving economic prosperity by continuing existing and maximizing additive maritime and freight activity within our jurisdiction and beyond. To accomplish this and ensure broad impact, we work closely with our tenants, carriers, and customers, and are aligned with a range of partners including economic development and business-related organizations.

Our goal is to attract more freight-based businesses, including companies that provide value-added services. This includes both public and private entities.

On Port property, we work with our partners to maximize our land and assets. Port NOLA's 2020 Port Inner Harbor Economic Revitalization Plan (PIER Plan), for example, developed a new economic vision for the Inner Harbor corridor, paving the way for new job creation and job connections through interagency and stakeholder collaboration.

MISSION-DRIVEN MODERN MULTIMODAL

Port of New Orleans is a modern multimodal gateway for global commerce and an in-demand cruise port. Our competitive edge comes from our ability to deliver seamless, integrated logistics solutions between river, rail and road.

OUR MISSION

To drive regional economic prosperity by maximizing the flow of international trade and commerce as a modern gateway.

OUR VISION

Advancing global connections and infrastructure to exceed the needs of tomorrow.



PORT OPERATIONS




PORT NOLA
THE PORT OF NEW ORLEANS
GREEN = PORT PROPERTY

PORT NOLA ADVANTAGE

The Port of New Orleans is a diverse deepwater port uniquely located on the Mississippi River near the Gulf of Mexico. This naturally strategic location allows unparalleled access to 30-plus major inland hubs such as Dallas, Memphis, Chicago and Canada via 14,500 miles of waterways, six Class I railroads and interstate roadways.

The alignment with New Orleans Public Belt Railroad strengthens our position as an integrated hub and supports our vision for regional freight-based economic development.

Port NOLA generates approximately \$100 million in revenue annually through our four lines of business — cargo, rail, industrial real estate and cruises.

As a self-sustaining political subdivision of the State of Louisiana, we receive zero tax dollars.

ECONOMIC CATALYST

Port NOLA's mission is to drive economic prosperity throughout our tri-parish jurisdiction: Jefferson, Orleans and St. Bernard. We collaborate with state and local partners to ensure that we can continue to be a vital link to the world for businesses and consumers — throughout Louisiana and beyond.

Our role is to plan, build and maintain the infrastructure necessary to grow jobs and economic opportunity related to trade and commerce. The Port's Strategic Master Plan, published in Spring 2018, is a bold vision that paves a path forward to ensure that Port NOLA meets market demand to lead the region to greater sustained prosperity.

Port NOLA connects Louisiana businesses to the world and creates family-supporting jobs.

- Port-related industries generate 1 in 5 jobs in Louisiana.
- The average salary of companies located on Port NOLA property is \$74,000 per year — 51% higher than the average local salary.



DIVERSE CARGO CAPABILITIES

Port NOLA offers a diverse cargo profile to serve our global supply chain partners, including container, breakbulk, heavy lift, temperature-sensitive cargo and bulk transload.



CONTAINERIZED CARGO MOMENTUM

Port NOLA is the only international deepwater container port in Louisiana. We continue to attract new services and ocean carriers, including all three major global carrier alliances, direct all-water container services to Asia, Europe & the Mediterranean, and Central/South America.

PREMIUM BREAKBULK CAPABILITIES

Breakbulk and heavy lift cargo are a strong focus at Port NOLA. The Port has 13,511 feet of berthing space available at six dedicated breakbulk terminals as well as two cold storage terminals capable of working refrigerated vessels at the Henry Clay Avenue Refrigerated Terminal and the Jourdan Road Terminal.

VALUE-ADDED LOGISTICS HUB

Port NOLA's diverse industrial real estate portfolio includes land and assets with access to rail, barge and truck. Our industrial tenants and partners provide value-added activities that support cargo growth such as warehousing, distribution, transloading, manufacturing, packaging and other activities.

CRUISING AHEAD

Cruising from New Orleans continues to grow in popularity with year-round ocean and inland river cruise itineraries.

Port NOLA handled more than **1 million cruise passenger movements** five years in a row (pre-COVID-19 pandemic) — that's equal to the population of six parishes in the metro New Orleans area, including Jefferson, Orleans, Plaquemines, St. Bernard, St. James and St. John.

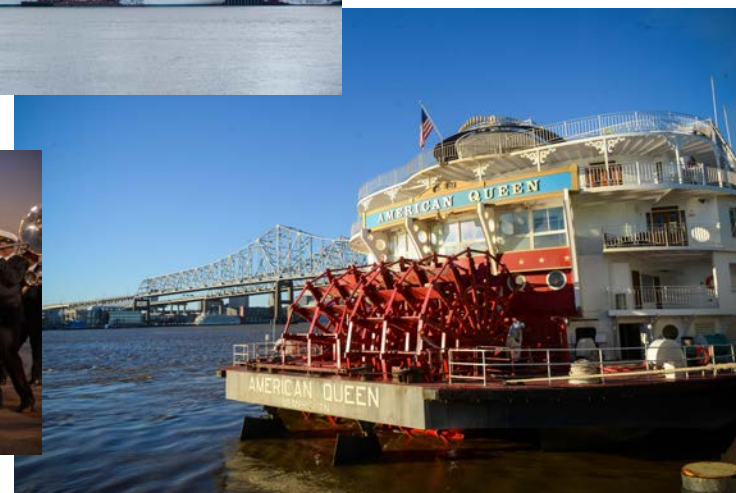
GREEN INITIATIVES AT CRUISE TERMINAL :

- Recycling at the Erato Street Cruise Terminal
- Replacement of lighting fixtures at the cruise terminal to LED downward facing fixtures

2022 RECOVERY

2022 is expected to recover to pre-pandemic levels with Carnival and Norwegian sailing weekly from Port NOLA to destinations in the Eastern and Western Caribbean, and The Bahamas. Royal Caribbean and Disney Cruise Line also return to Port NOLA in 2022.

The riverboat lines, American Cruise Lines and American Queen Steamboat Company, bring a unique opportunity to sail on the Mississippi River with Victorian-style stern-wheelers and modern riverboats. Viking Cruises joins us for an inaugural season as well in 2022.



PORT NOLA FORWARD – OUR STRATEGIC MASTER PLAN

The Port of New Orleans' Strategic Master Plan, "Port NOLA Forward," is a bold vision to deliver significant, sustained economic benefit throughout the Port's three-parish jurisdiction — Jefferson, Orleans, and St. Bernard.



The Strategic Master Plan positions us to think more cohesively about growing our vital maritime and hospitality industries, and to consider the supply chain as a whole by harnessing all available multimodal assets — on and off Port property, along the Mississippi River and inland waterway system, on the New Orleans Public Belt and six Class I rail network, and via access to interstate highways.

The Port NOLA Strategic Master Plan is a broad and adaptive way forward for the Port, our stakeholders and the entire region. Its four guiding goals are:

- Operate efficiently
- Capitalize on gateway position
- Strengthen relationships and connect our stakeholders
- Develop sustainably

The plan presents a menu of strategies to optimize current assets and extend our reach across all business lines.

Ultimately, the Strategic Master Plan ensures we are able to fully harness the potential of the region with clear, wide guidelines to capitalize on our gateway position rather than prescriptive land use mandates.

From the beginning, the process was designed to be inclusive of a variety of interests to reflect our diverse stakeholder groups, and we appreciate all the valuable feedback we received. As a matter of fact, more than 2,500 individuals informed the Strategic Master Plan during its development.

PORT NOLA ENVIRONMENTAL POLICY

YOUR PORT • YOUR WATER • YOUR NOLA
Keep It  Clean!



Port NOLA Environmental Policy

Sustainable Development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.¹

The Port of New Orleans strives to minimize impacts to the environment through education, management strategies and mitigation to protect natural resources, human health and climate future, while sustainably and efficiently fulfilling its mandate to promote maritime commerce in southeast Louisiana. Success may be achievable through strategies for continuous improvement, education and outreach, management of waste, water and air quality, and land resources, such as:

- Oversee Port Facilities, tenant operations, and construction projects with the goal of pollution prevention
- Implement responsible waste management and reduction strategies
- Provide educational opportunities about environmental regulations and best practices to Port employees and tenants
- Coordinate with regulatory agencies and stakeholders in response to situations with environmental impacts on Port properties and within the Port's jurisdiction, as required
- Develop Port plans, training and environmental programs to reduce environmental impacts to air, water and soil
- Engage the public and stakeholders about Port NOLA's environmental and sustainability initiatives
- Evaluate feasibility of renewable energy, including non-traditional sources, and implement pilot and larger scale projects where possible
- Utilize recognized sustainability and environmental guidelines in future developments and operations
- Seek out Local, State and Federal funding opportunities for projects that reduce pollutants and eliminate sources of pollution for innovations at Port NOLA, and support tenants, operators and port users, including local vessel and truck fleets
- Comply with applicable environmental laws and regulations

¹ 1987 definition by the United Nation's Brundtland Commission Report, accepted widely throughout the world

GREEN MARINE CERTIFICATION

Green Marine is a voluntary environmental certification program that is third-party audited and encourages continuous improvement in environmental performance and community impact management. Port NOLA joined Green Marine as a member in 2014 and earned certification in 2015. As part of Port NOLA's commitment to sustainability and environmental responsibility, our President and CEO, Brandy D. Christian, serves on the Board of Directors for Green Marine.



ANNUAL EVALUATION

Green Marine is a comprehensive environmental program that provides frameworks for shipping companies, terminal operators and ports to voluntarily reduce their environmental footprints. The program requires participants to adopt practices and technologies that will have a direct impact on the ground. The progress that participants make in this respect is evaluated with the help of performance indicators, which are revised yearly, in the spirit of continuous improvement at the heart of the environmental program.

For ports, Green Marine measures several performance indicators, including community impacts, environmental leadership, air quality and greenhouse gas emissions, spill prevention and storm-water management, and waste management.

To maintain our certification, the Port provides annual evaluation reports and is audited by an independent party every other year.

Port NOLA Green Marine 2021 Results:

- Greenhouse gases and air pollutants: 3
- Waste management : 3
- Community impacts : 4
- Environmental leadership : 5
- Spill prevention : 5
- Community relations: 5
- Aquatic invasive species: Scientific research support
- policy for allowing researchers on Port NOLA property



Last Verification: 2022

SEACOR'S CONTAINER ON BARGE (COB) SERVICE

SEACOR AMH provides shippers with an efficient means of access to domestic and international markets by transporting containerized cargoes along the Mississippi River using its fleet of dry-cargo barges.

SEACOR MARINE CARBON OFFSET PROGRAM

“SEACOR AMH has been a great partner of the Port of New Orleans in providing reliable container on barge service to our mutual customers. SEACOR AMH's investments have created a marine highway option for shippers and ocean carriers to move containers on inland routes and we applaud their commitment to greening the supply chain.”

— Brandy Christian, President and CEO of the Port of New Orleans.

Container on barge has been a safe and environmentally friendly transportation solution and SEACOR AMH's move to carbon neutrality continues to support the value of this service to the region. Port NOLA is proud to work with SEACOR AMH for our container on barge service.

BATON ROUGE-NEW ORLEANS MARINE HIGHWAY

ANNUAL AVERAGE SAVINGS OF FUEL, MILEAGE, AND CO₂ EMISSIONS



The container-on-barge (COB) service saves around 400,000 gallons of fuel per year...



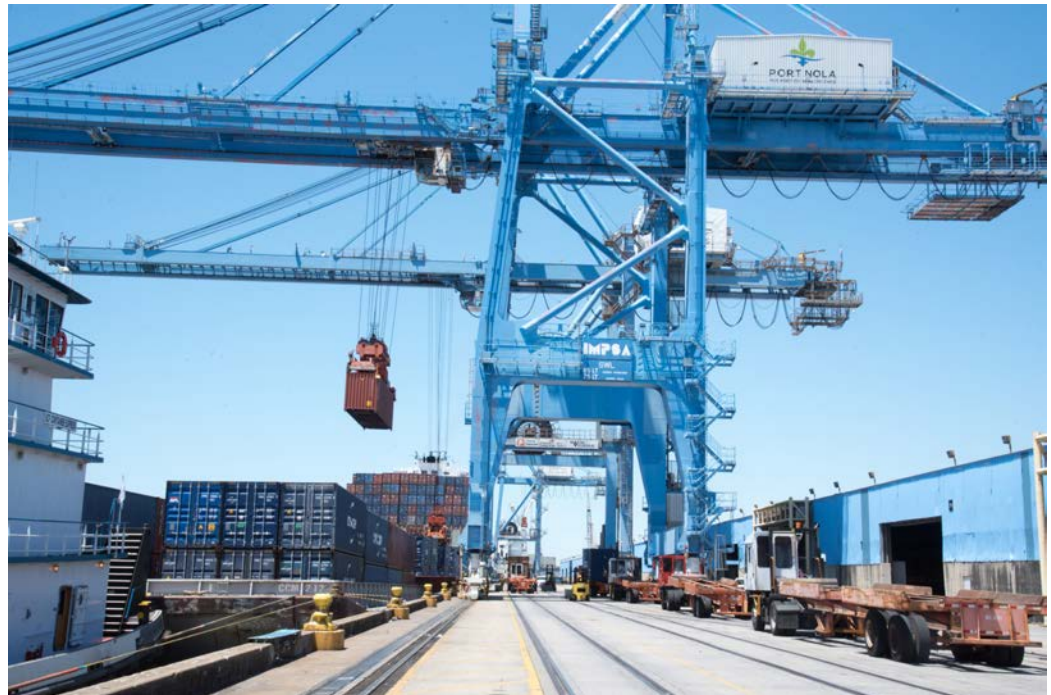
... and avoids around 2.4 million VMTs (Vehicle Miles Traveled)...



...representing a reduction of 10,000 metric tons of CO₂ emissions...



... equivalent to CO₂ emissions from more than 1,200 homes' energy use for one year!



SEACOR'S CONTAINER ON BARGE SERVICE (CONT.)

2022 ENVIRONMENTAL LEADERSHIP PROGRAM (ELP) AWARDS

Port NOLA is honored to have received an Environmental Leadership Award from Louisiana Department of Environmental Quality for the container on barge service.

We accepted the award along with our partners that have grown the service to close to 30,000 TEUs per year moving by barge and off of our highways.

We thank the Port of Greater Baton Rouge, CMA CGM, Seacor AMH, and Ports America for their innovation and commitment to the greening the supply chain.



LNG FUELING SOLUTIONS

Port NOLA and CLEANCOR, a subsidiary of SEACOR Holdings Inc., signed a memorandum of understanding on August 17, 2021 to collaborate on ways to provide liquefied natural gas (LNG) fueling solutions to ship owners and operators within Port NOLA's jurisdiction that would benefit from reduced environmental emissions.

CLEANCOR, an alternative energy company, will work with Port NOLA to help provide LNG to Port customers and marine operators in Port NOLA's jurisdiction. Port NOLA will provide CLEANCOR with data, logistics expertise, customer contacts, as well as introductions and marketing support.

"We are pleased to partner on this MOU with CLEANCOR to ensure we provide Port NOLA tenants and customers with the best options for the most efficient and effective operations. LNG paves the way of the future and provides a suitable and sustainable fuel source for the diverse cargo operations on our terminals and in our jurisdiction."

— Brandy D. Christian, President and CEO, Port NOLA and CEO, NOPB

CLEANCOR will work to educate Port NOLA customers and other local stakeholders regarding the environmental and financial benefits of LNG bunkering. In collaboration with Port NOLA, CLEANCOR will develop options for infrastructure development that integrate into Port NOLA's long-range planning. CLEANCOR will also provide options for LNG bunkering that are compatible with forecasted customer demand and collaborate with Port NOLA to obtain Federal, state, and other authorizations and permits needed to develop the required infrastructure and operations.

Both CLEANCOR and Port NOLA will identify, attract and serve customers in Port NOLA's jurisdiction that use LNG fuel, jointly solicit sources of grant funding to help incentivize early adopters and collaborate to share information on infrastructure necessary to support LNG bunkering.

A proposed expansion of the Port NOLA complex with the addition of an international container terminal in St. Bernard Parish opens opportunity for new businesses and industries as well as fuel source options.

This alignment builds upon Port NOLA's already existing strategic relationship with SEACOR to provide one of the country's largest container-on-barge operations. The service between Baton Rouge, New Orleans, Memphis and St. Louis continues to thrive and offers shippers an efficient and environmentally friendly option for moving their cargo. The service repositions empty containers from Memphis and St. Louis to Baton Rouge and New Orleans, where they are then loaded with exports and shipped to global markets.

"CLEANCOR is proud to partner with the Port of New Orleans on the development of LNG bunkering infrastructure. Our mission is to accelerate the adoption of low carbon fueling solutions and this constitutes an exciting opportunity to not only advance the region's first such project, but also to contribute to the decarbonization of the maritime sector."

— Jeff Woods, CEO CLEANCOR



THE ROAD TO NET ZERO

Gov. John Bel Edwards' vision for a climate-resilient clean energy economy is already becoming a reality. Several projects are helping Louisiana mitigate the effects of climate change and achieve net-zero greenhouse gas emissions by 2050.

Few places on the planet are more susceptible to the effects of climate change – or better equipped to lead the energy transition – than Louisiana. That's why the state has committed to reducing its carbon footprint while growing the economy.



LED



Learn more at:
<https://www.louisiananetzero.com>

LOUISIANA IS INVESTING IN THE FUTURE OF ENERGY

12.16.21: Bia Energy Operating Company Evaluating Plans For \$550 Million Blue Methanol Plant At Port of Caddo-Bossier

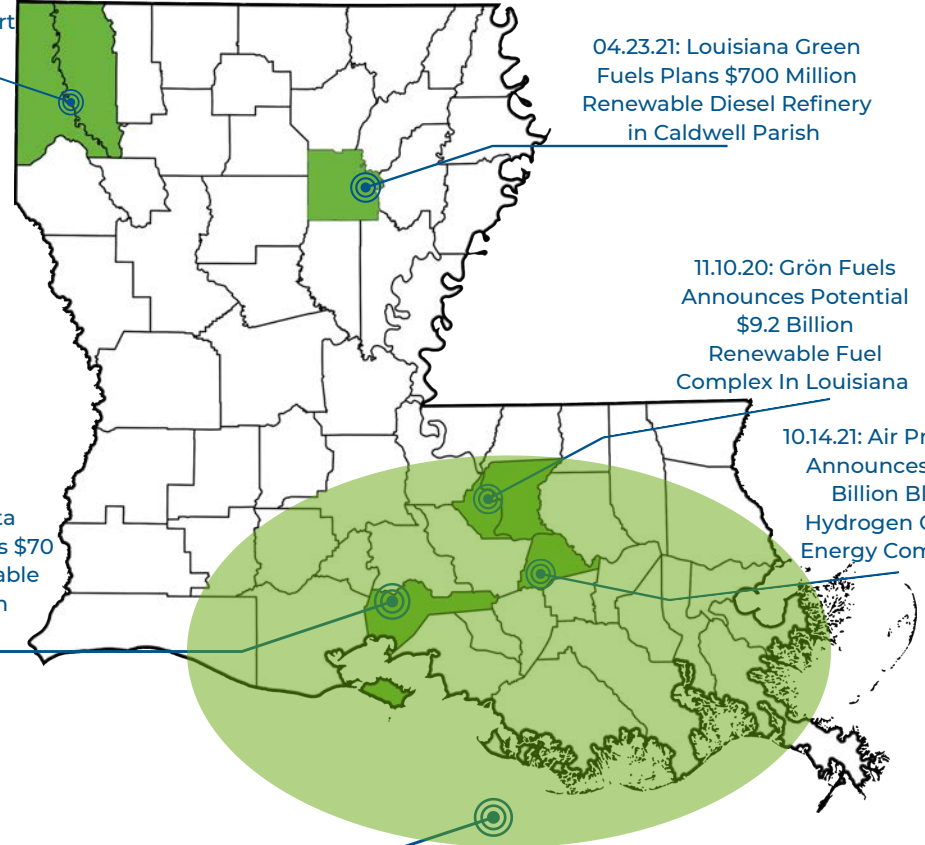
04.23.21: Louisiana Green Fuels Plans \$700 Million Renewable Diesel Refinery in Caldwell Parish

11.10.20: Grön Fuels Announces Potential \$9.2 Billion Renewable Fuel Complex In Louisiana

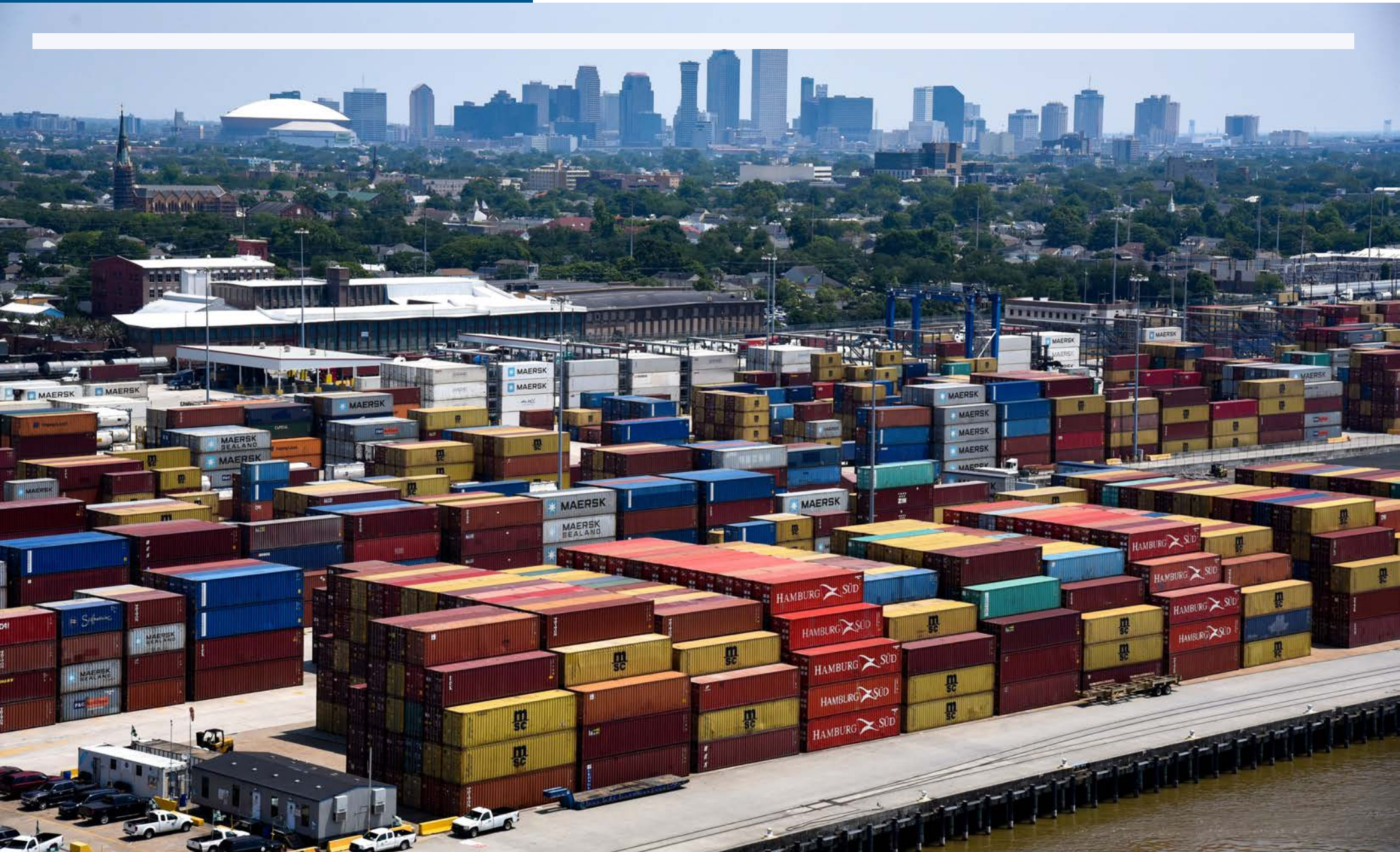
10.14.21: Air Products Announces \$4.5 Billion Blue Hydrogen Clean Energy Complex

06.28.21: Delta Biofuel Proposes \$70 Million Renewable Fuel Plant In Jeanerette

12.13.21: Louisiana Green Hydrogen Energy Corridor Proposal, Among Finalists In EDA's \$1 Billion 'Build Back Better' Regional Challenge



PERFORMANCE INDICATORS, PROGRAMS, AND INITIATIVES



GREENHOUSE GASES (GHG) AND AIR POLLUTANTS REDUCTION

The Port's Sustainable Development and Environmental Services team has been monitoring changes to regulatory policy through EPA and other mailing lists, participation in AAPA Environment Committee meetings and updates, and Green Marine meetings and updates.



- Adopting policies that discourage idling of vehicles powered by internal combustion engines:
 - Port NOLA adopted a "No Idling" policy in December 2016, and the program has been implemented.
- Promoting sustainable transportation practices by employees:
 - The Port has participated in the New Orleans' Regional Planning Commission's transportation survey which encourages carpooling, public transit and cycling.
 - Port NOLA has four EV Charging stations in the employee parking lot and has been expanding its alternative fuel fleet.
 - Bike racks were installed in conjunction with local non-profit, Bike Easy.
- Implementing measures to reduce truck congestion and idling:
 - Port NOLA has implemented measures including a queuing lane to avoid traffic backups, an automated appointment system for the container yard to reduce trucks queuing, and a comfort station located near the container yard.
 - The Port has worked with RPC & DOTD on signaling to reduce idling and congestion on roads leading to the Port.
 - The **New Orleans Public Belt's** locomotive fleet is outfitted with anti-idling technology, which significantly reduces fuel usage and emissions. Automatic Engine State Stop (AESS) technology automatically turns off a locomotive if it has been idling too long and restarts when needed.
- Supporting environmentally friendly transportation solutions:
 - Port NOLA has supported the growth of SEACOR AHM's Container-on-Barge service since its launch in 2016, receiving an Environmental Leadership Program (ELP) Award from the Louisiana Department of Environmental Quality in June 2022.

CLEAN TRIP

The Port of New Orleans launched the Clean Truck Replacement Incentive Program (Clean TRIP) in 2016, offering incentives for voluntary replacement of drayage trucks that service cargo terminals and warehouses along the Mississippi River and the Inner Harbor. Clean TRIP enables truck and fleet owners to voluntarily invest in cleaner air through early truck replacement with cleaner models. The Port has captured momentum from Clean TRIP to initiate community dialogue around air quality and opportunities for improvement, and to catalyze port industry efforts under the broader Port of New Orleans Clean Air Program.

To date, over 80 short-haul drayage trucks have been replaced with cleaner burning engines, reducing fine particulate emissions from these trucks by 96%, which is equal to taking more than 95,000 cars off the road.

This program is made possible with funding by the U.S. Environmental Protection Agency (EPA) and the Louisiana Department of Environmental Quality. The Port of New Orleans received competitive grants to provide truck replacement rebates supporting our local Port trucking industry, helping reduce local air emissions, and increasing reliability and efficiency of on-road goods movement.

CLEAN TRIP 2022

The Port of New Orleans is accepting 2022-2023 Clean TRIP Applications. We are accepting applications on a rolling basis until State and Federal grant funds are expended. Eligible applicants must fully own a drayage truck with three years of remaining life that currently operates and consistently services drayage facilities in the Port of New Orleans jurisdiction of St. Bernard, Orleans, and Jefferson parishes. More information about Clean TRIP eligibility can be found at <http://cleantrip-portno.com/eligibility>.



ELECTRIC AND HYBRID VEHICLES

Port NOLA's Electric and Hybrid fleet currently includes:

- Two fully electric Chevy Bolts
- Two plug-in hybrid F-150 trucks
- Four plugs for charging in the employee parking lot.



PORT OF NEW ORLEANS INTRODUCES PLUG-IN HYBRID PICKUP TRUCKS TO EXISTING ELECTRIC VEHICLE FLEET

NEW ORLEANS—June 18, 2019—With existing electric vehicle (EV) charging infrastructure in place and working toward energy efficiency investments defined in their new Strategic Master Plan, the Port of New Orleans (Port NOLA) expanded their EV fleet with the help of the *Clean Fuel Transition Fund for Public Fleets*, managed by the Regional Planning Commission's (RPC) Clean Fuel Partnership program.

This funding helped the Port offset the costs of two plug-in hybrid electric F-150s equipped with extended range technology, including a high voltage lithium battery pack and regenerative braking.

The systems, developed by XL, enable an estimated 50% increase in miles per gallon and 33% decrease in emissions. Project partners celebrated this innovative clean transportation project at a ribbon cutting ceremony held on June 18, 2019 at Port NOLA.

"We are pleased to celebrate Port NOLA's new plug-in hybrid electric trucks which are helping the Port save fuel, reduce emissions and invest in efficiency," said Port NOLA President and CEO, Brandy D. Christian. "We would like to thank the Regional Planning Commission and the Clean Fuel Partnership, as well as XL. We look forward to continuing to implement projects that help drive energy-efficiency and sustainability."

The Regional Planning Commission established the Clean Fuel Partnership to promote and facilitate the implementation of fuel saving and emissions reduction projects in the transportation sector.

The Louisiana Department of Transportation and Development awarded RPC funding through the U.S. Department of Transportation, Federal Highway Administration's Congestion Mitigation and Air Quality Improvement (CMAQ) Program to support projects that reduce air emissions and improve environmental quality. RPC elected to use this funding, via executing the *Clean Fuel Transition Fund for Public Fleets* to support public fleets with incorporating clean fuel alternatives into their operations to reduce air quality impacts associated with transportation fleets.

SPILL PREVENTION

Regulations are monitored by the Port. Also, external environmental compliance audits were conducted in 2015 and 2020.

The Port's Stormwater Management Plan (SWMP) is kept up to date according to the Municipal Separate Storm Sewer System (MS4) Permit, which requires monitoring of all sections of the MS4 during dry and wet weather, and sampling of the water if there is anything unusual about the water at inlets or outfalls.



- Performing vehicle and machinery fueling, lubrication and maintenance at a minimum distance from a tributary:
 - The Port performs all vehicle maintenance in designated areas that exceed the minimum distances.
- Using retention pans under stationary devices and equipment that can potentially leak or which needs to be resupplied periodically:
 - Secondary containment is in place at all maintenance facilities and for all storage.
 - All equipment, vehicles, and containers are inspected monthly for leaks.
- Regularly inspecting near shore water and property to identify and immediately stop leaks from any source:
 - Port personnel inspects the waterfront during loading and offloading operations.
 - Port NOLA has several storm water collection areas to prevent or control discharges of pollutants from entering the river.
 - The Port has 3 permitted wastewater discharge systems and will include sampling, analysis, inspections, and treatment if needed.
- Minimizing discharge of wash water into the environment when washing vehicles and equipment:
 - The Port constructed a covered washpad with an oil/water separator (OWS) that flows into the municipal POTW for washing vehicles and equipment at Coffee Drive that captures all wash water.
 - The washpad is designed to prevent stormwater flow into the OWS.
- Collecting and treating storm water, and using low toxicity / biodegradable lubricants:
 - Stormwater is discharged onto a surrounding permeable area to allow for percolation, further preventing stormwater pollution from reaching local waterways.
 - Port NOLA has a routine / preventative maintenance schedule and checklist for our waste water treatment systems. The Port also collects and tests treated wastewater.
 - Facilities and vessels use low toxicity/biodegradable lubricants.

COMMUNITY IMPACTS

A Community Hotline number is available for all community matters.

Community concerns are addressed to the appropriate department for resolutions working with the Community Engagement Manager, Harbor Police, External Affairs, and Sustainable Development as necessary.

A system has been put into place that ensures complaints and concerns are handled appropriately and expeditiously. For environmental related complaints or incidents, the environmental GIS survey and dashboard are used to track corrective actions and timelines.



NOISE MITIGATION

- Adopting operational procedures or measures limiting the use, or reducing the impact of warning signals, without compromising safety:
 - The Port limits nighttime operations to minimize noise to the surrounding neighborhoods. Train operations are scheduled to minimize noise.
- Taking measures to reduce the noise from rail operations at the port:
 - The **New Orleans Public Belt** has initiated ways to minimize noise impacts through the community affairs officer and the Urban Railroad Initiative that manages and minimizes train congestion at rail crossings.
- Limiting idling of vehicle, equipment and locomotives:
 - Port NOLA has a "no idling" policy that was approved by the Board and published in December 2016.
 - The Port prepared an Idle Reduction Plan for the port-wide vehicle and equipment emissions program.
 - Port NOLA also adopted a new procurement policy in 2019. Section 17 is the environmentally preferable procurement section which includes "low or zero noise."
- Creating screens against sound with the help of sound-reducing trees or walls if appropriate:
 - Along the riverfront terminals, a floodwall provides a screen of the Port operations from the river. Floodwalls also exist between the neighborhoods and the Inner Harbor Navigation Canal (IHNC).
 - Port NOLA has also planted vegetative screens around entrances to improve visual appeal.

COMMUNITY IMPACTS (CONT.)

The Port consistently notifies the public of projects that affect the community. With four bridges (two with vehicular traffic) owned by the Port, regular notifications are sent out via email, social media and posted on portnola.com, to inform the public of repairs and closures that may affect the community.

Major projects are also sent out to local media through press releases.



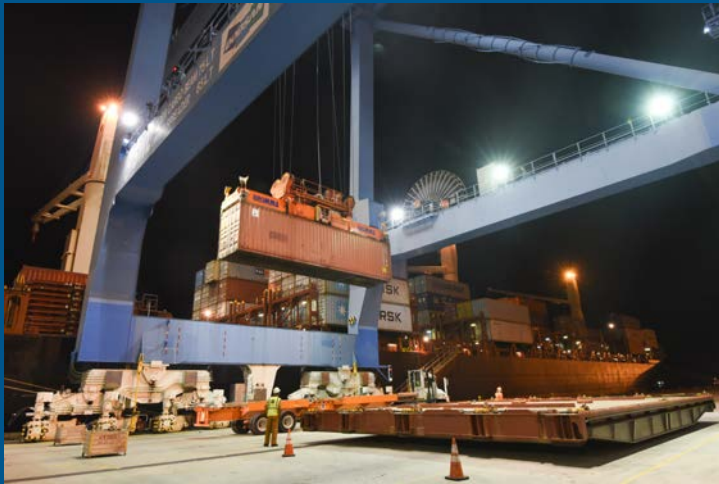
DUST MITIGATION

- Implementing mitigation measures during spray painting and blasting operations to prevent dispersal of dust and aerosol particles by the wind:
 - It is required by the Port's standard construction specifications to prevent dust from activities like blasting and painting through wet measures, contained procedures and/or negative pressure environments.
- Collecting and confining spent abrasives and debris to avoid dispersion by wind and storm water:
 - Abrasives must be contained during work to prevent dispersion to the environment and community.
 - Dust and abrasive materials are required to be collected and disposed according to the solid waste regulations.

TRAFFIC / CONGESTION MITIGATION

- Formalizing an appointment system, adding two lanes and the Terminal adding a back gate that improved traffic flow:
 - The drayage appointment system has greatly optimized truck movements through the container yard since its implementation.
 - Port NOLA also has a queuing lane which leads into the container yard, where trucks waiting to go through security are able to wait in a separate lane than traffic.
 - Prior to the queuing lane's construction, all traffic would be congested while trucks waited to enter the container yard.
 - The Port has also worked with the state DOT and Regional Planning Commission to improve signalization around the Port.
 - The **New Orleans Public Belt** is working to mitigate congestion at street level rail crossings.

COMMUNITY IMPACTS (CONT.)



LIGHT MITIGATION

- Direct lights so they only illuminate the necessary zone:
 - For new construction, outdoor lights are shielded to direct light downward to reduce impacts on wildlife, and visual pollution/glare.
 - The Port follows dark sky guidelines in specifications, and we will be including this in planned updates to design guidelines.
- Installing fixtures that optimize lighting and reduce light pollution when replacing fixtures or during new projects:
 - Newly installed lighting is installed in this manner.
 - The Port has replaced several lighting fixtures along roadways, at the cruise terminal and container yard to LED downward facing fixtures.

GREEN SPACE



- Installing green corridors, vegetated, or recreational areas between operating site and residential area if appropriate:
 - Port NOLA has turned several large properties over to the city to construct parks and greenways.
 - In February 2018, the City of New Orleans officially agreed to turn over the **New Orleans Public Belt** to the Port of New Orleans in a cooperative agreement to exchange assets of two industrially active wharves at the east end of the French Quarter, expanding Mississippi River waterfront access and connecting Crescent Park to the Moonwalk along the waterfront adjacent to the French Quarter.
 - The Port has also historically turned over sections of riverfront access to the City to construct the Moonwalk, Crescent Park and a property in New Orleans Lower Ninth Ward to construct Delery Park.

WASTE MANAGEMENT

The Port monitors regulatory updates through industry and regulatory mailing lists and compliance audits conducted in 2015 and 2020.

A waste audit was conducted at all Port facilities in 2020 to identify all waste types produced and ensure wastes being disposed in an ideal manner.



YOUR PORT • YOUR WATER • YOUR NOLA
Keep It  Clean!

- Equipping offices, workspaces and facilities with recycling bins, strategically located and appropriately labeled:
 - The Port has recycling containers in the office spaces and throughout Port properties.
 - Port NOLA also has a universal waste recycling contract. Universal waste pickups occur quarterly and are managed by Port Environmental Services.
- Installing clear signage for waste disposal on port or terminal property:
 - The Port has a no litter signage and "Keep It Clean!" campaign signage throughout Port properties.
 - Commingled recycling and refuse receptacles are labeled clearly.
- Providing training and/or educating staff:
 - The Port has written and promulgated a Waste Management handbook.
 - Port NOLA provides waste management training annually for field employees and guidance through online training and emails.
 - The Port encourages use of biodegradable and/or recyclable supplies such as reusable dishes, coffee mugs, and water bottles. We have limited in office and eliminated Styrofoam cups, provide all new employees with mugs, etc. We encourage the use of reusable utensils and dishes in the administrative building.
 - Port NOLA has incentivized employees with "Keep It Clean!" water bottles, coffee mugs, stickers and magnets for participation in environmental events.
 - The Port promotes the use of double-sided printing. Also, electronic / paperless accounting processes are in place.
- Promoting and encouraging tenants, users, contractors, and/or clients to minimize waste and to recycle:
 - The Port encourages and allows the Container terminal tenants to recycle through our facilities and vendor, and the Mardi Gras recycling program.
 - Recycling bins were added to the cruise terminal to test use and need with the operators and passengers.

WASTE MANAGEMENT (CONT.)



TRASH FREE WATERS COMMITMENT

In collaboration with the U.S. Environmental Protection Agency (EPA), Port tenants and community stakeholders, Port NOLA is working to address the fundamental issue of trash, litter and debris.

Through this program's efforts, the Board adopted a Trash Free Waters Commitment in 2015 and has prevented over 35,000 pounds of litter from reaching our waterways to date. Port NOLA is committed to reducing litter along all of its roadways and terminals and coordinating with stakeholders to make ongoing improvements.

MARDI GRAS BEAD RECYCLING

In New Orleans, we like to "Let the good times roll," but we know the importance of cleaning up after the party. Port NOLA engages its staff, tenants and neighbors to recycle Mardi Gras beads each year. The beads are collected and reused by ARC of Greater New Orleans, an area nonprofit that cleans, sorts and resells the beads to parade groups as a source of revenue.

Since the program's inception, Port NOLA has recycled over two tons of beads and throws. C'est bon!

PORT INNER HARBOR ECONOMIC REVITALIZATION PLAN (PIER PLAN)

PIER PLAN

The Port NOLA Inner Harbor Economic Revitalization Plan (PIER Plan) is the result of a collaborative planning project with the City of New Orleans, our key partners, the New Orleans Regional Planning Commission, the Louisiana Department of Environmental Quality, and the Deep South Center for Environmental Justice, and a long list of many stakeholder organizations.

The PIER Plan focuses on the future development of the Port's Inner Harbor and surrounding communities. This planning effort was funded by a U.S. Environmental Protection Agency Brownfields Area-Wide Planning Grant.

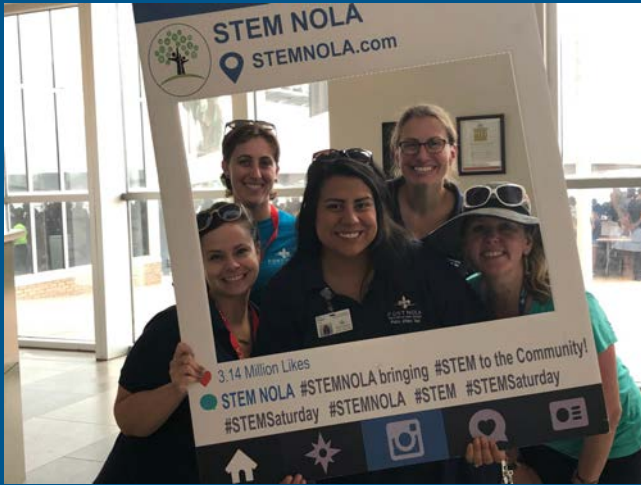


The final PIER Plan was adopted by the Board of Commissioners of the Port of New Orleans on April 23, 2020 after years of rigorous analysis and stakeholder engagement.

The Port's PIER Plan lays out plans for a Maritime Recreational Campus, which could allow greater access to the IHNC, and potentially include maritime industry training facilities.

The PIER Plan also includes design standards and recommendations for screening of industrial operations from the community.

OTHER PROGRAMS & INITIATIVES



COMMUNITY PARTNERSHIPS

- Port NOLA organizes annual Earth Day volunteer events with our team members, Port tenants and operators, and partner organizations to improve our communities and the environment. Port staff have helped to build gardens, plant trees, clean up the Pontchartrain lakeshore and pick up trash near the Inner Harbor.
- We give Port 101 presentations that include information about the Port's Environmental initiatives and Green Marine; the presentation is also shared digitally.
- In 2020 the Port also created a Digital Learning Toolbox that includes sections about our environmental initiatives and is geared to teachers and students, providing educational resources about the Port during the Louisiana stay-at-home mandate. To date, the learning toolbox has received over 1,500 hits on our website.
- Port NOLA's staff is also involved in a variety of local community organizations.







RAIL NOLA
NEW ORLEANS PUBLIC BELT



NEW ORLEANS PUBLIC BELT

The New Orleans Public Belt Railroad (NOPB) is a Class III switching railroad with the primary mission of serving the Port of New Orleans and local industries. The NOPB is a neutral carrier, with direct connections to six large Class I Railroads; instrumental in expediting local and intermediate freight through the strategic New Orleans Gateway. NOPB is a diversified company, with a locomotive shop, track maintenance and repair division, and rail car storage capabilities.

DID YOU KNOW?



On average, freight rail can move one ton of freight 413 miles per gallon of fuel according to the Federal Railroad Administration.



Freight railroads only account for 0.5% of total US greenhouse gas emissions and just 2% of emissions from transportation sources

(source: US Environmental Protection Agency)



Moving freight by rail instead of truck lowers greenhouse gas emissions by 75%

LEADING THE WAY IN SUSTAINABILITY

NOPB is committed to sustainable practices and leveraging new technologies to reduce our footprint. We are not alone. We are part of a bigger movement in the freight rail industry. Railroads across the country have invested billions of dollars in an effort to make the most eco-friendly way to move freight over land even more sustainable for future generations.

A CLEAN FLEET LEADER

NOPB is a proud member of the Southeast Louisiana Clean Fuel Partnership, a coalition of vehicle fleet managers and operators; alternative fuel, vehicle and technology providers; local, state and federal government agencies; and other organizations interested in promoting policies and practices that diversify our transportation fuel options, improve our environment and reduce fleets' operational costs.

The partnership is hosted by the Regional Planning Commission of New Orleans and is part of a larger US Department of Energy Clean Cities Coalition of nearly 100 cities across the country.

In 2018, NOPB was awarded the **Clean Fleet Leader award**, a recognition to business leaders that deploy domestic clean fuels, fuel saving technologies, and energy-efficient vehicle programs and policies.

FUEL AND EMISSION SAVINGS

NOPB IMPROVED EFFICIENCY WITH LOWER-EMISSION LOCOMOTIVES

The New Orleans Public Belt Railroad (NOPB), has upgraded its locomotive fleet with twelve new locomotives which replaced aging engines, improving efficiency and lowering overall emissions.

Recognizable by their bright blue color, the new locomotives provide reliable service and support the short-line railroad's commitment to integrating more sustainable business and operational practices.

In addition to fuel and emissions savings, the new leasing structure allows NOPB to achieve significant operational and capital savings.

LOCOMOTIVE IDLE REDUCTION TECHNOLOGY

NOPB's locomotive fleet is outfitted with **anti-idling technology**, which significantly reduces fuel usage and emissions. Automatic Engine State Stop (AESS) technology automatically turns off a locomotive if it has been idling too long and restarts when needed, similar to the technology found on many automobiles.

NOISE REDUCTION

NOPB annually tests its locomotive horns for safety and community sound levels. The level must be between 96-100 decibels measured from the direction of travel.



FUEL AND EMISSION SAVINGS (CONT.)



The new EPA-classified Tier One locomotives allowed NOPB to immediately reduce its fleet size by 46%



- Fuel consumption reduced by ~25%
- Emission reductions include a ~40% reduction in N₂O, which pollutes the ozone layer and creates smog
- Particulate emissions reduced by ~50%



Since 2018, NOPB has been saving the equivalent of **425,000 gallons of gasoline on average each year** through energy-saving technologies in its fleet.

"The New Orleans Public Belt is committed to providing safe, reliable and efficient rail transportation solutions. These new locomotives will be the backbone of our efforts. Not only can we reduce our fleet and fuel consumption, we can be better community neighbors."

— M.D. "Mike" Stolzman, Chief Operating Officer, Port NOLA and NOPB

"Bringing these lower-emission locomotives on line supports Port NOLA's and NOPB's commitment to sustainability. With the Port and NOPB now fully aligned, we are able to make strategic investments that provide air quality benefits for the community while providing superior service to our users and Class I partners."

— Brandy D. Christian, President and CEO, Port NOLA and CEO, NOPB

NOPB and Port NOLA have each piloted other innovative emissions reduction initiatives as a part of their respective strategic plans, including the Port of New Orleans Clean Truck Replacement Incentive Program (Clean TRIP) and NOPB's locomotive idle reduction plan.

As partners, Port NOLA and NOPB are working together to foster programs that address both the maritime and rail space. Manufactured by Electro-Motive Diesel (EMD), the new locomotives comply with NOPB's logo color standards and introduce a new bright blue color.

URBAN RAIL INITIATIVE

We are dedicated to being responsible urban neighbors, committed to public safety best practices.

In 2018, we launched the URBAN RAIL INITIATIVE, a company-wide program that addresses infrastructure improvements, operations practices, and internal and external outreach. The purpose of the initiative is to improve community relations while increasing fluidity across the network.

The plan is designed to be an adaptable assessment of community needs and strategies which can be amended as feedback from our neighbors' shifts. This way we are able to respond appropriately to each area and situation.

The initiative will take time, investment and dedication to implement, but we are on the way and dedicated to building our credibility and delivering on promises made.

WHAT HAS ALREADY BEEN DONE?

- Air hoses have been installed at key crossings. Hoses allow crews to break a train and allow traffic to pass if there is a prolonged blockage. Additional sites for installation are being evaluated.
- Power switches are being installed across the system. These switches are automated, so crews do not have to stop the train and manually line the switch, resulting in improved fluidity and reduced blockages.

WHAT IS CURRENTLY BEING DONE?

- Consolidated Rail Infrastructure and Safety Improvements (CRISI) Federal Grant Award - NOPB's New Orleans Gateway Rail Fluidity and Capacity Improvements Project will improve efficiencies and increase NOPB's capacity to switch, interchange and store cars.

RAILROAD SAFETY AND RAILROAD EDUCATION INITIATIVES

- **NOPB and Operation Lifesaver of Louisiana (OL of LA)** - In partnership with OL of LA, NOPB is launching railroad safety education in the metro New Orleans area's K-12 schools.
- **NOPB's Safety Crawfish Conductor** - NOPB is proud to introduce Tchoup, our crawfish conductor, who is focused on rail crossing safety. Our new coloring book with Tchoup and friends is available for download on the Community section of our site.
- **NOPB's Digital Learning Toolbox** - NOPB invites students, educators, parents and other members of the community to learn more about the NOPB's local railroad industry.

OTHER PROGRAMS & INITIATIVES

SOLAR POWER PANELS ON AUTOMATED SWITCHES

Program started in December 2019 and is planned to be completed in August 2022. There are already a total of 47 solar power switches installed on the railroad, and only one pending to be installed.

Besides the significant carbon footprint reduction from this initiative, after Hurricane Ida, **80% of NOPB's switches were working immediately after the storm**, and the rest were back online within two days.

SAFETY

NOPB has a safety and training department, dedicated to two core missions:

- To create a safe environment for all employees, customers and the public
- To maintain compliance with all federal, state, and local rules and regulations

To achieve these objectives, NOPB has a robust internal education program and strong working relationships with the emergency response community.

In 2021, the team received 8,000 hours of combined classroom and in-field training. NOPB finished 2021 with a safety frequency index of 2.49.







PORT NOLA
THE PORT OF NEW ORLEANS