

ADVANCE ENVIRONMENTAL STEWARDSHIP

We are committed to reducing our carbon footprint and implementing practices that conserve natural resources and reduce environmental impacts.

9 Lowering Our Carbon Footprint

13 Conserving Natural Resources



LOWERING OUR CARBON FOOTPRINT

We are committed to reducing the carbon footprint of our operations and the products we manufacture through energy-efficiency improvements that enhance performance and long-term resiliency. We work to optimize our assets, strategically invest in emerging technologies, expand our natural gas business and collaborate across sectors to drive efficiency improvements.

Scope 1 and 2 GHG Emissions

In 2020, we adopted a companywide Scope 1 and 2 GHG emissions intensity reduction target of 30% below 2014 levels by 2030. As we progressed toward this goal, we expanded our commitment in 2024 and set a new target to reduce Scope 1 and 2 GHG emissions intensity 38% from 2014 levels by 2035.

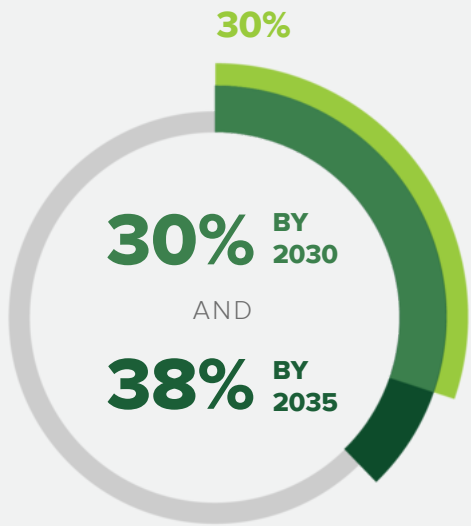
In 2025, we achieved our 2030 target. We delivered a 30% reduction in emissions intensity from our 2014 baseline five years ahead of schedule — and we continue to make progress toward our 2035 target.

We calculate emissions intensity by aggregating Scope 1 GHG emissions (direct emissions from our operations) and Scope 2 GHG emissions (indirect emissions from purchased electricity and steam) across our operations and dividing by total manufacturing inputs. Because our manufacturing sites process a wide range of inputs — including crude oil, natural gas, natural gas liquids and renewable feedstocks — we normalize these inputs using a common energy basis of barrels of oil equivalent (boe) to ensure comparability.

Our progress reflects consistent execution and long-term focus. Since 2014, we have driven sustained Scope 1 and 2 GHG emissions intensity reductions. Energy efficiency initiatives have avoided nearly 1 billion Btu per hour of energy use and generated more than \$28 million in savings in 2025, demonstrating the value of disciplined energy management. We have also consistently earned ENERGY STAR® awards and certifications from the U.S. Environmental Protection Agency, providing third-party validation of our governance, performance and commitment to continuous improvement in energy efficiency.

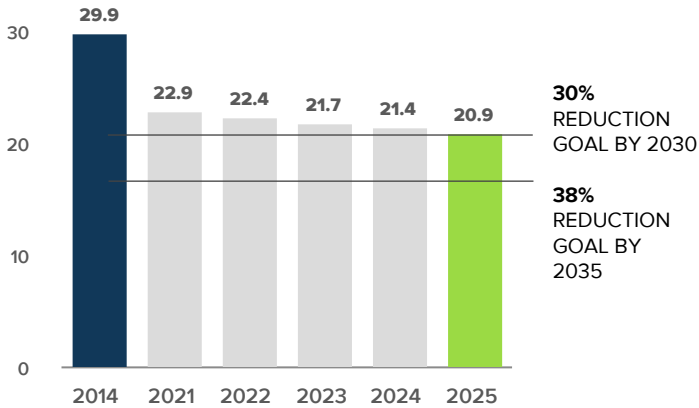
Scope 1 and 2 GHG Emissions Intensity (tonnes CO₂e/thousand boe input)

2035 Goal 2030 Goal Progress



30% reduction of Scope 1 and 2 GHG emissions intensity by 2030 and 38% reduction by 2035 from 2014 levels

Scope 1 and 2 GHG Emissions Intensity (tonnes CO₂e/thousand boe input)



DELIVERING ON OUR COMMITMENT

We are committed to reducing GHG emissions intensity through multiple initiatives, including:

- Improving energy efficiency through our Focus on Energy program
- Reducing methane emissions through targeted mitigation and asset optimization efforts
- Expanding MPLX Natural Gas and NGL Services to support operational diversification and lower-carbon intensity assets
- Optimizing renewable fuels production

In 2025, we achieved our 2030 target to reduce Scope 1 and 2 GHG emissions intensity by 30% from 2014 levels, demonstrating the impact of energy-efficiency initiatives and continued focus on operational performance.

Capital Allocation

At MPC and MPLX, we invest to strengthen the competitive position of our assets and enhance long-term resiliency. Today, we are focused on optimizing our core refining and logistics portfolio while expanding our natural gas and NGL value chain and advancing value-enhancing projects.

MPC and MPLX allocate capital between sustaining and growth capital categories. Sustaining capital — which supports safe, reliable and compliant operations — represents approximately 20% of MPC and MPLX's anticipated 2026 capital spend. The remaining 80% is growth and value-enhancing capital, which we deploy in areas that improve operating performance, support our most competitive assets and enable the build-out of our lower-carbon intensity natural gas value chain.

These investments enhance our operational efficiency and resilience while positioning the company to continue to play a vital role in the evolving energy system.



Energy Management

Energy efficiency is a critical driver to reduce greenhouse gas emissions and support long-term operational resilience and financial performance. By identifying and implementing cost-effective energy conservation opportunities, we lower operating costs, reduce energy consumption and decrease energy-related emissions across our operations.

Focus on Energy

Our companywide Focus on Energy program serves as the primary framework for advancing energy efficiency across our refining operations, renewable fuels facilities and MPLX assets, including natural gas and NGL services, terminals and pipeline systems. The program takes a holistic, data-driven approach to identify efficiency opportunities, improve performance and manage energy-related risks.

Focus on Energy is built on a set of core elements that support continuous improvement. These elements include energy performance standards, digitalization of energy data systems, maintenance and reliability programs, energy management systems and enhanced data collection and analysis. These elements are reinforced through strong governance, dedicated leadership and a culture of accountability that enables measurable, sustained progress.

The program is implemented at all 13 of our refineries, our renewable diesel facilities and select MPLX facilities. Site-specific energy coordinators play a critical role to advance performance by:

- Establishing and tracking key energy performance metrics
- Identifying and evaluating efficiency opportunities and benchmarking performance
- Developing and implementing energy conservation road maps
- Integrating energy efficiency into project design and operations
- Supporting operator awareness and training

Through Focus on Energy, we have achieved meaningful results, including avoiding nearly a billion Btu per hour of energy use and generating more than \$28 million in savings in 2025, equivalent to the annual energy use of approximately 60,000 homes or 100,000 gasoline-powered passenger vehicles. These efforts support both operational efficiency and emissions-reduction objectives.

ENERGY STAR® ACCOMPLISHMENTS

Through the strength of our Focus on Energy program, we have established a culture of continuous improvement in energy efficiency. Our industry-leading accomplishments underscore our position as a leader in energy efficiency across refining and midstream operations. MPC has earned more ENERGY STAR® refinery certifications than all other U.S. refiners combined, reflecting sustained high performance. In 2025, our Salt Lake City refinery achieved its first certification, further expanding this track record.

Our leadership extends beyond refining. MPLX’s Bluestone natural gas processing facility became the first facility in the U.S. natural gas processing sector to achieve the ENERGY STAR Challenge for Industry, and our Los Angeles Basin booster station was the first facility in the U.S. pipeline industry to earn this designation. These achievements demonstrate our ability to drive energy efficiency across a diverse portfolio of assets and reinforce our commitment to operational excellence.

Certified Facilities

6 facilities recognized for energy-efficient performance ranking in the top 25% of nationwide peer facilities

MPC Refining

- ★ Anacortes, Washington (6 years)
- ★ Canton, Ohio (20 years)
- ★ Garyville, Louisiana (20 years)
- ★ Robinson, Illinois (11 years)
- ★ St. Paul Park, Minnesota (8 years)
- ★ Salt Lake City, Utah (1st year)

The company has earned more ENERGY STAR® refinery certifications than all other U.S. refineries combined¹, reflecting sustained leadership in energy efficiency across the refining sector.



ALL OTHER
U.S. REFINERIES



¹ Through 2025 certification year.

Challenge for Industry

14 facilities recognized for energy-efficiency performance through a 10% reduction in energy intensity

MPLX Natural Gas and NGL Services

- Bluestone Gas Processing Facility (Evans City, Pennsylvania)

MPLX Crude Oil and Product Logistics

- Los Angeles Basin booster station (California)
- 12 terminals across five states: Alaska (Anchorage), Illinois (Champaign), Indiana (Mt. Vernon, Muncie), Michigan (Jackson, Lansing), Ohio (Cincinnati, Youngstown), Tennessee (Nashville - 51st Terminal, Bordeaux, Downtown Terminal) and West Virginia (Charleston)

Our Bluestone Gas Processing Facility and Los Angeles booster station are the first and only facilities in their sector to achieve the challenge.

We continue to pursue energy efficiency improvements across our operations with 10 additional facilities now entered in the Challenge for Industry program.

SPOTLIGHT ON

Marathon Pipe Line’s Los Angeles Basin Area

Marathon Pipe Line’s (MPL) L.A. Basin Area site achieved the U.S. Environmental Protection Agency’s (EPA) ENERGY STAR® Challenge for Industry in 2025. Meeting the Challenge requires industrial facilities to reduce their energy intensity by at least 10% within a five-year period.

MPL’s Mobil booster pump station in Southern California surpassed the target with a 17.1% reduction from its established baseline within one year. This success came from modifying a pump by removing an impeller stage, to prevent the pump from using more energy than required for its function. This project delivered an annual energy avoidance of 6.375 billion Btu, increasing competitiveness of the site by reducing electricity costs.



MPL’s first ENERGY STAR® Challenge for Industry and a first for the U.S. pipeline industry

Anacortes Industrial Showcase

Our Anacortes, Washington, refinery hosted an ENERGY STAR® Industrial Showcase for regulatory agencies’ staff, elected officials, area Tribal members, local utility board members and other key stakeholders in recognition of its achievements in energy-management practices. Their efforts have helped earn six consecutive ENERGY STAR certifications.

Employees conducted refinery tours and staffed exhibit booths to explain initiatives that are helping advance sustainability at the Anacortes refinery. These include engineering projects that have reduced emissions of nitrogen oxides, use of software to identify the most efficient ways of managing process equipment and an LED lighting initiative.

Methane Emissions

MPLX Natural Gas and NGL Services manages methane emissions through a measurement-informed, data-driven Focus on Methane program. As this approach has matured, Methane Matters represents the next phase of our strategy — building on progress to address changing market expectations, advancing technologies and evolving regulations. Our strategy emphasizes continuous improvement, operational accountability, environmental performance and progress in emissions management.

In 2022, we expanded our methane intensity reduction target to further strengthen performance and risk management, with a goal to reduce methane intensity 75% by 2030 relative to a 2016 baseline. Through 2025, we have achieved a 68% reduction, reflecting sustained progress across our operations.

Embedding Methane Awareness in Operations

Methane Matters reinforces consistent, field-level practices that support emissions reduction across our operations:

Minimize and Monitor

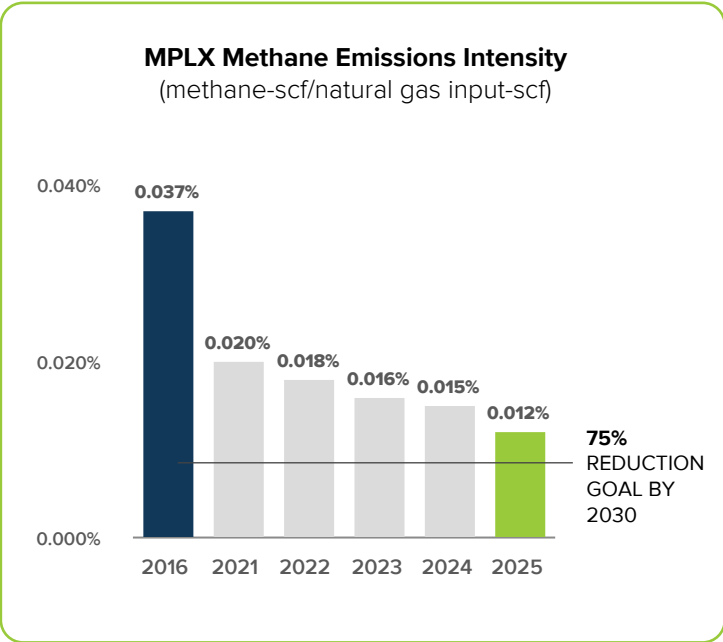
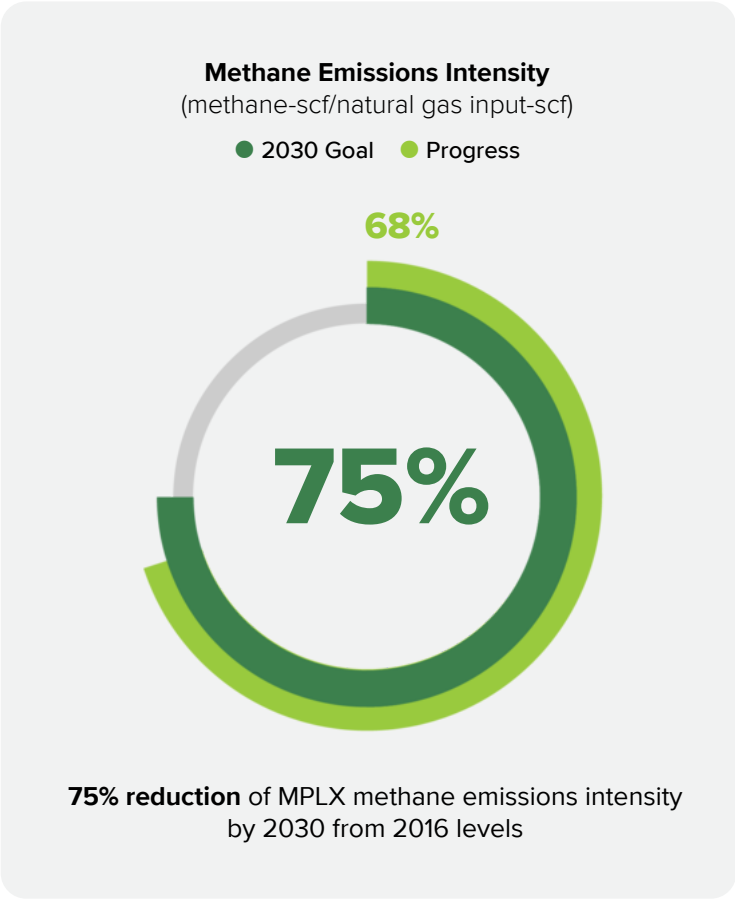
- Maintain awareness of equipment performance and respond to upsets
- Understand likely emission sources across operations
- Limit venting and use it only as a last resort

Fix and Prevent

- Inspect and maintain equipment to support reliable operations
- Take ownership of identified issues
- Complete repairs in a timely manner to reduce emissions

Innovate and Improve

- Deploy new technologies to enhance detection and mitigation
- Design systems to reduce emissions at the source
- Continuously improve work practices through data and experience



APPROACH TO MANAGING METHANE

Our methane management strategy is structured around four core pillars:

Detect

We prioritize early identification of methane emissions through a comprehensive suite of detection technologies, supporting a measurement-informed inventory and faster response times:

- Satellite monitoring
- Aerial surveys
- Ground-based continuous monitors
- Manual leak detection programs
- Stack testing and performance data

Mitigate

We target emissions reductions through equipment upgrades, operational improvements and proactive maintenance, including:

- Reducing methane slip from combustion sources
- Replacing and maintaining compressor rod packing
- Deploying engine upgrade kits during overhauls
- Optimizing fuel use through programs such as Equipment, Compression Health & Optimization (ECHO)

These actions support targeted emissions reductions while improving system reliability and efficiency.

Report

Transparent, measurement-based reporting is central to our approach. We are committed to developing emissions inventories that reflect both performance and evolving measurement capabilities, enabling stakeholders to understand our progress and challenges.

Engage

Collaboration is a key component of our strategy. We work with industry peers, regulators and research institutions to advance best practices and accelerate technology development. Partnerships such as the Appalachian Methane Initiative — led by the Energy Emissions Modeling and Data Lab, Colorado State University’s Methane Emissions Technology Evaluation Center and The Environmental Partnership — support innovation and the adoption of data-driven solutions.

Measurement-Driven Performance

Our measurement-informed approach enables more accurate emissions quantification, improved decision-making and targeted mitigation. By integrating advanced technologies with operational data, we enhance the accuracy, consistency and transparency of our emissions reporting.

Through MPLX’s program, we have implemented measures that are anticipated to enable approximately 16,000 tonnes per year of methane emissions reductions and enhanced system efficiency relative to a 2016 baseline.

	Optimized Maintenance Venting and System Design Maintenance venting is minimized through the use of vapor recovery units, portable flares and improved system designs in new facilities that reduce methane emissions by design.
	Pneumatic Device Emissions Reduction Natural gas-driven pneumatic controllers are being eliminated and replaced with zero-bleed or instrument-air systems, significantly reducing methane emissions from pneumatic sources.
	Enhanced Leak Detection and Advanced Monitoring Expanded Leak Detection and Repair programs, combined with Fourier transform infrared spectroscopy analysis, satellite data, aerial surveys and drone inspections, improve methane leak detection, repair timeliness and emissions quantification.
	Equipment-Specific and Operational Emissions Controls Emissions from pipeline launchers and receivers are reduced by up to 85% per opening event, while flaring volumes are minimized through process improvements and enhanced control efficiency. Low emissions compressor packing materials and proactive rod-packing replacements further reduce fugitive methane emissions.

Renewables and Emerging Technologies

KEY OBJECTIVES:

Maintain safe and reliable operations across our renewable fuels facilities while continuously optimizing to maximize returns.

Identify and deploy innovative and emerging technologies that enhance business performance by offering attractive returns, improving reliability, reducing costs and minimizing environmental impact.

~2.8 billion gallons of renewable fuels delivered to customers in 2025

Hydrocarbon fuels remain essential to today’s economy and are expected to play a critical role for the foreseeable future. Improving how these fuels are produced and delivered is foundational to advancing environmental stewardship and key to meeting the needs of global energy markets. At the same time, our investments enable us to produce lower-carbon intensity products and support emissions reductions across the transportation sector.

In 2025, we were among the largest suppliers of renewable fuels in the United States, delivering approximately 2.8 billion gallons to customers. This volume is estimated to have avoided approximately 16 million tonnes of CO₂ emissions from transportation¹.

RENEWABLE FUELS INVESTMENTS

Martinez Renewables

Martinez, California

- Joint venture with Neste Corporation
- Among the largest renewable diesel facilities in the world
- 730 million gallons per year capacity

Dickinson Renewable Diesel Facility

Dickinson, North Dakota

- Produces renewable diesel and naphtha
- 184 million gallons per year capacity

Green Bison Soy Processing

Spiritwood, North Dakota

- Joint venture with ADM
- Produces refined soybean oil
- ~600 million pounds per year capacity
- Enough feedstock for ~75 million gallons of renewable diesel per year

LF Bioenergy

Commercial operations at seven facilities across the U.S.

- MPC has 49.9% interest in LF Bioenergy
- Produces renewable natural gas from organic waste on dairy farms

Renewable Feedstock Responsible Sourcing

We implement a risk-based approach to responsibly source feedstocks for our renewable diesel facilities. We evaluate current and prospective suppliers, countries of origin and new feedstock varieties. Reviews of suppliers are conducted to evaluate their alignment with our Supplier Code of Conduct. This may include an interview to obtain supplier-specific information or to address questions regarding a commodity or its origins. Before new renewable feedstocks are processed at our facilities, we evaluate a variety of information, including information on environmental, regulatory and human rights topics. We continue to monitor the sustainability of our renewables sourcing practices.

Examples of Emerging Technology Investments

Arbor Energy

Emerging power-generation technologies are playing a role in shaping a lower-carbon energy future. MPC has invested in Arbor Energy², a company developing next-generation, zero-emission power systems. Arbor Energy’s technology combines advanced turbine design with innovative combustion processes to deliver scalable, fuel-flexible power with the potential for carbon-neutral or carbon-negative operation with use of carbon sequestration or the use of waste biomass. While early in development, this investment reflects our commitment to identifying and supporting technologies that could play a role in the evolving energy landscape.

Aquanta Vision

Digital advances are transforming how emissions are identified and managed across industrial operations. MPC has invested in Aquanta Vision³, a company developing advanced methane detection software. Aquanta Vision’s technology enhances optical gas imaging inspections by applying automated, physics-based algorithms that improve the accuracy and speed of leak detection using existing equipment. By enabling real-time identification and visualization of methane emissions across a range of inspection methods, this technology has the potential to strengthen emissions monitoring, support more timely repairs and reduce overall emissions. Our investment reflects our interest in scalable digital solutions that enhance measurement capabilities and support more efficient, data-driven operations.

INNOVATION ECOSYSTEM

Advancing solutions for environmental and operational benefits requires ongoing coordination across a broad innovation ecosystem. MPC collaborates with several leading academic institutions and research networks to this end. These include the Massachusetts Institute of Technology’s Industrial Liaison Program, which connects industry with cutting-edge research, faculty expertise and startup innovation. In Houston, MPC participates in a dynamic regional ecosystem that brings together industry, academia and entrepreneurs through initiatives associated with Rice University — the Ion Innovation District and Greentown Labs — North America’s largest climatetech incubator. These platforms foster collaboration across sectors to identify, develop and scale innovative solutions that enhance operational performance, strengthen emissions management and support a more sustainable energy future.

Square Robot

Improving the safety and efficiency of routine inspection activities is critical to maintaining reliable operations and protecting the health and safety of our workforce. In 2025, we expanded our relationship with Square Robot⁴, a company that develops robotic systems for the inspection of aboveground storage tanks. These robots are designed to operate while a tank remains in service, enabling more frequent inspections without requiring tank shutdowns or entry into confined spaces by personnel. By improving inspection efficiency and reducing operational disruptions, this technology has the potential to enhance safety, lower emissions associated with maintenance activities and strengthen the integrity management of critical infrastructure.

Via Separations

MPC has invested in Via Separations⁵, a company advancing next-generation membrane filtration technology for industrial applications. Via Separation’s technology replaces energy-intensive, heat-driven separation processes with electrified filtration systems that can significantly reduce energy use while enhancing operational reliability and performance. With thermal separations representing a major source of industrial energy demand, innovations like Via Separation’s have the potential to lower emissions and improve efficiency across MPC’s existing operations through scalable solutions.

¹ MPC estimated avoided emissions using fuel carbon intensity values generated per the California Air Resources Board Low Carbon Fuel Standard life-cycle analysis models and documentation (i.e., CA-GREET3.0).

² <https://arbor.co/>

³ <https://www.aquantavision.com/>

⁴ <https://sqrarobot.com/>

⁵ <https://viaseparations.com/>

CONSERVING NATURAL RESOURCES

Guided by our Core Value of Safety and Environmental Stewardship, we strive to be responsible stewards of the environment while meeting society’s current and future energy needs. We recognize our business activities have potential to affect ecosystems and communities, and we work diligently to manage and mitigate any impacts. We are committed to minimizing environmental impacts through advanced technologies, practices and investments that support the conservation of natural resources.

Environmental Management

Our Operational Excellence Management System (OEMS) is third-party reviewed for alignment with the RC14001® standard, and 100% of our operations are in scope. The standard incorporates our environmental stewardship policies, including our responsibility to evaluate and minimize environmental impact, train our employees on environmental management best practices and maintain open communication with stakeholders.

➤ Learn more in the OEMS section on [Page 43](#).



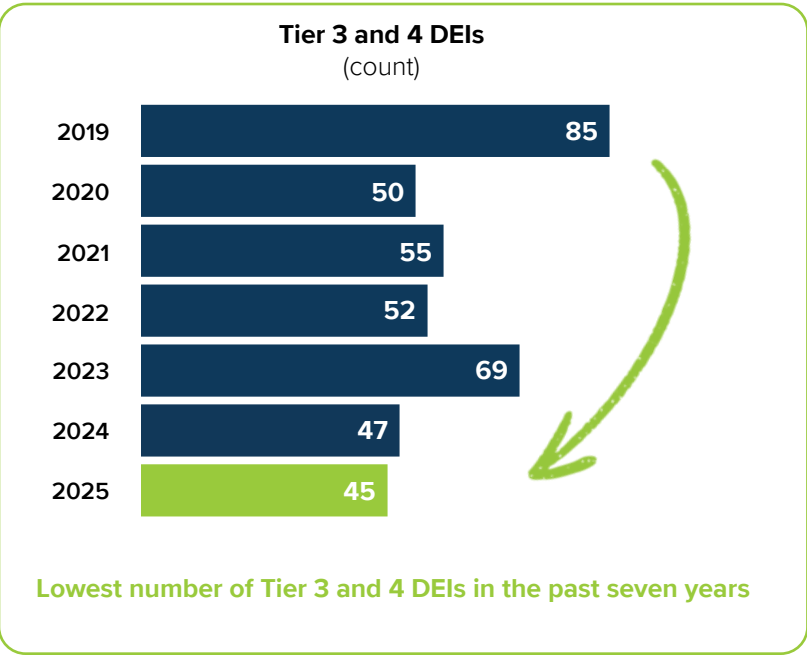
29,300+
hours of environmental training for MPC employees in 2025.

PRIORITY AREAS FOR NATURAL RESOURCE CONSERVATION

- Improving air quality
- Maintaining emergency preparedness
- Preventing spills
- Protecting biodiversity
- Reducing freshwater withdrawal

Accountability

We link environmental performance to employee compensation and measure it using the Designated Environmental Incident (DEI) metric. It tracks three categories of environmental events: unplanned releases to air, land and water; environmental permit exceedances; and agency enforcement actions. We assess DEI severity using a four-tier framework. Tiers 1 and 2 indicate lower severity, and Tiers 3 and 4 indicate higher severity.



Our priority is to prevent all incidents. As a precaution, we invest in our response capabilities and preparedness training to ensure our teams have the knowledge and resources needed to help mitigate and manage impacts to people and the environment should an event occur. In these instances, we conduct a thorough review of the event and apply lessons learned to strengthen our processes and practices. Findings from completed investigations have informed process improvements and other measures designed to address root causes and reduce the number of incidents.

Biodiversity

We take proactive steps to protect diverse plant and animal species and preserve habitats in areas where we operate. Our OEMS provides a framework for assessing how our activities may affect ecosystems and for implementing the mitigation measures needed to reduce those impacts.

Our formal Commitment to Biodiversity outlines our approach and practices. Governed by executive leadership and adopted companywide, it emphasizes that we seek first to avoid, then minimize, and, where appropriate, offset impacts to biodiversity. We recognize that operating within communities is a privilege, and we collaborate with tribal and local communities, business partners, and relevant state and federal regulatory agencies, including the U.S. EPA, U.S. Fish and Wildlife Service, U.S. Bureau of Land Management and U.S. Army Corps of Engineers.

➤ To view our formal **Commitment to Biodiversity**, please visit our [website](#).

Wildlife Habitat Council Certification®, powered by Tandem Global, is the only voluntary sustainability standard designed to recognize and promote biodiversity enhancement and conservation education on corporate landholdings. Our certifications cover:



➤ To learn more about the wildlife habitat at the Galveston Bay refinery, please visit our [website](#).

Protecting Biodiversity throughout the Asset Life Cycle

Our policies and practices govern asset siting, construction, operation, maintenance and decommissioning. They establish requirements and practices intended to help minimize potential impacts on the environmental quality of habitats in and adjacent to our operational areas. These policies are aligned with the International Finance Corporation’s Performance Standards on Environmental and Social Sustainability.¹

Throughout the asset life cycle, we prioritize impact avoidance on ecologically sensitive areas. Where land disturbance is unavoidable, we apply recognized best management practices to minimize and mitigate impacts. When complete restoration is not feasible, we offset residual impacts through approved conservation mitigation banks and other mechanisms that support the long-term protection of comparable sensitive habitats.

At each stage of the asset life cycle, we:

- Identify and engage impacted stakeholders to solicit feedback, which becomes part of our decision-making process.
- Conduct location-specific risk assessments, as appropriate, including desk and field studies, to evaluate nature dependencies and impact to biodiversity, natural resources and land use.
- Determine mitigation and enhancement initiatives within the project by working with stakeholders, local biologists and other environmental specialists.
- Implement biodiversity management and mitigation plans and assess potential outcomes to drive toward achievement of the intended objectives.

¹ International Finance Corporation’s Performance Standards on Environmental and Social Sustainability include: Performance Standard 1 – Assessment and Management of Environmental and Social Risks and Impacts; Performance Standard 3 – Resource Efficiency and Pollution Prevention; Performance Standard 4 – Community Health, Safety, and Security and Performance; Performance Standard 6 – Biodiversity Conservation and Sustainable Management of Living Natural Resources.

Pipeline Nature Impact Mitigation

Our recent efforts have prioritized identifying and assessing location-specific risks of pipeline operations in areas of threatened or endangered species habitat. Risks identified include habitat impacts, species movement and nature-related dependency risks including water quality and soil stabilization. To mitigate these risks, we apply best management practices and techniques throughout the pipeline life cycle.

BEST MANAGEMENT PRACTICES AND TECHNIQUES APPLIED TO MITIGATE IMPACTS TO NATURE

	Conservation Mowing Adjusting mowing schedules and mower height throughout the year helps protect ground-nesting birds and avoid disturbing wildlife during important migration periods.
	Selective Herbicide Applying U.S. EPA-approved products to target invasive or incompatible plant species mitigates impacts to native vegetation. Weed management plans keep treated areas free of invasive and non-native weeds.
	Enhanced Planting Planting seeds that attract pollinators or provide food to boost biodiversity helps crowd out incompatible or invasive plants.
	Hand Clearing Clearing woody plants by hand and using targeted treatments help minimize disruption in the area.
	Assessments and Education - Conducting post-construction surveys and research to verify sensitive areas have been appropriately restored. - Monitoring wetland and waterway crossing sites on pipeline rights of way to confirm they are fully restored and functioning. - Training employees and contractors about biodiversity and maintaining assets in sensitive areas. - Using signage to identify sensitive areas.

STAGES OF BEST MANAGEMENT PRACTICES ON THE RIGHT OF WAY

BEFORE

Woody vegetation and other incompatible plant species require a routine maintenance schedule. The best treatment application method for the terrain and existing vegetation is determined.



DURING

Incompatible vegetation begins to turn brown in one to two weeks of targeted treatment. This is a sign of successful application. Selective treatments do not affect compatible vegetation we want to retain.



AFTER

After incompatible vegetation has been eliminated, a mix of native, compatible vegetation can be observed along the rights of way. While slightly less manicured, it requires less overall maintenance, supports biodiversity and improves soil stability.



NATIVE RESTORATION ALONG THE RIGHT OF WAY IN WEST VIRGINIA

In 2025, we restored multiple pipeline sites affected by slope failure in West Virginia using a purpose-designed seed mix tailored to support sustainable right of way vegetation management. The mix was developed to achieve rapid soil cover, meet erosion and sediment control requirements, and outcompete woody vegetation that could compromise our ability to inspect for leaks.

The blend includes regionally appropriate grasses with dense, fibrous roots for stabilization and flowering species to support pollinators without limiting access or asset integrity.

Avoid

For effective vegetation management, we keep existing ground cover in place and avoid any unnecessary disturbance. This helps prevent erosion, slope failures and the spread of unwanted plants.

Reduce

By establishing an intentional native and regionally adapted seed mix with deep, fibrous root structures, we reduce the likelihood of future slip incidents. Dense root networks improve soil cohesion, enhance slope stability and decrease long-term vegetation maintenance needs.

Regenerate

Rights of way in forested landscapes are naturally prone to recolonization by woody vegetation, which is not compatible with pipeline safety and access requirements. Through targeted species selection, we regenerate disturbed areas with a native vegetation community designed to outcompete woody species.

Restore

Restoration activities include regrading terrain, applying suitable seed mixes and stabilizing slopes based on soil and site conditions. These actions restore disturbed areas to a stable state while ensuring the continued protection and integrity of pipeline assets.

Conservation Agriculture Program

MPL’s Conservation Agriculture program supports pipeline integrity and responsible land stewardship along rights of way by promoting erosion control and sustainable land management practices in collaboration with farmers.

The program prioritizes areas of shallow cover and locations where erosion could increase the potential for pipeline exposure. MPL works with farmers to identify appropriate conservation measures and implement them in a manner aligned with agricultural operations and site conditions.

Planting native grasses and flowers can significantly reduce soil and nutrient loss from fields, helping maintain soil fertility and protecting water quality.

These conservation measures also support habitat function and broader biodiversity and pollination outcomes while helping manage erosion risks along pipeline rights of way.

“We can help native plants and wildlife survive and thrive by creating sustainable habitats that help improve the local environment while protecting our assets and saving money.”

Scott Sharpe

Senior Environmental Specialist



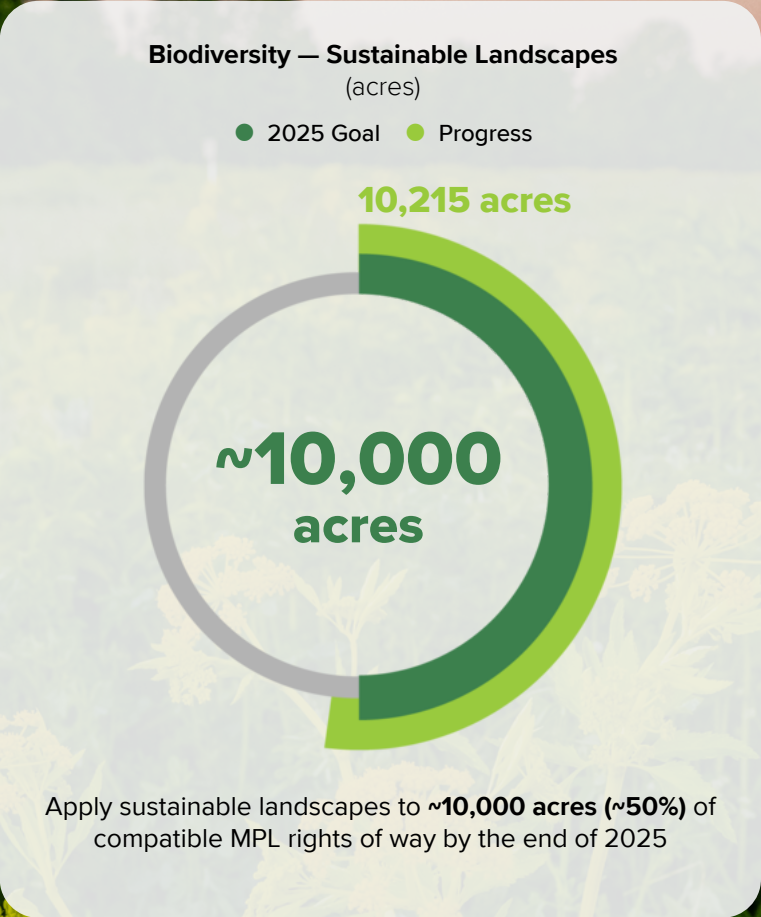
Marathon Pipe Line Sustainable Landscapes Initiative

Marathon Pipe Line (MPL) is harnessing the power of nature-based solutions. MPL is putting Integrated Vegetation Management (IVM)¹ and Integrated Habitat Management (IHM)² plans in place through partnerships and technology. Together, these practices help MPL to operate its pipelines safely while enhancing habitat for pollinators and wildlife, reducing impact to operations and promoting long-term environmental health.

In 2023, MPL set a target to apply sustainable landscapes to approximately 10,000 acres (50%) of compatible rights of way by the end of 2025. Through collaborative efforts, the team has made consistent annual progress. MPL ended 2025 having applied 10,215 acres of sustainable landscapes across its assets, which span 26 states.

Restoration initiatives are implemented in areas where we have direct access and operational oversight, enabling effective management and monitoring. Industrial and privately owned lands are not in scope and are addressed through stakeholder engagement where feasible.

Achieving our initial target is simply a milestone toward our biodiversity commitment. We continue to explore opportunities to increase native landscapes and decrease invasive plants along our rights of way.



METHOD FOR SUCCESS

We’re achieving results while applying sustainable landscapes to pipeline rights of way. These results are achieved through coordination with many stakeholders to realize shared value.

Assess site conditions and set goals
Landowners and partners are engaged in the evaluation process to set goals specific to location, land use, habitats, species and other criteria.

Develop implementation plans
Plans consider site-specific goals to promote native species, increase pollinator plants, promote water quality and soil stabilization, and connect fragmented habitats. Plans prioritize pollinator and grassland habitats that provide critical habitats for threatened and endangered species.

Implement restoration activities
Plans are executed in conjunction with contractors and partners and documented through mapping tools and technology that help track progress and support desired outcomes.

Monitor progress
Sites are monitored to assess progress toward intended objectives.

Evaluate outcomes
Success is evaluated by verifying all objectives and criteria have been met within our executed plan.



5,700+
vegetation assessments completed by MPL since 2022

Strategic Collaboration

- To sustain progress creating sustainable landscapes, MPL engages the following partner organizations:
- The Ohio State University School of Environment and Natural Resources (SENR) to conduct research on pipeline rights of way with a focus on ecology, soil carbon and landowner relations.
 - Penn State College of Agricultural Sciences to conduct research on the restoration of landscape along a right of way in Pennsylvania through a naturally occurring seed bank, without external seeding.
 - Mule Deer Foundation to evaluate habitat impacts in western states near our assets.

Nationwide Conservation Agreement for the Monarch Butterfly

MPLX proudly signed the Nationwide Candidate Conservation Agreement with Assurances (CCAA) for Monarch Butterflies on Energy and Transportation Lands, a unique collaboration between academia, regulators and industry. This agreement underscores our commitment to enhancing biodiversity and supporting monarch butterfly populations. We achieve this by enhancing our rights of way to promote the growth of milkweed and nectar resources.

¹Integrated Vegetation Management (IVM): A flexible, adaptive process of managing plant communities using a variety of methods to promote and protect compatible vegetation while aligning with the intended purpose of the land.

²Integrated Habitat Management (IHM): A process that adheres to IVM principles with the added intention to improve habitat by promoting biodiversity, connecting wildlife corridors to address habitat fragmentation and providing habitat for migratory insects, birds and various wildlife species.

Water

We actively monitor water efficiency and utilization throughout all operations, continually looking for ways to reduce our reliance on this shared resource and mitigate risks effectively.

In 2025, through collaborative efforts and enhanced emphasis on water savings opportunities, we achieved our companywide target to reduce freshwater withdrawal intensity by 20% from 2016 levels. This was accomplished five years earlier than our initial goal attainment date. This equates to approximately 2 billion gallons of fresh water saved annually since 2016.

Water Use in Operations

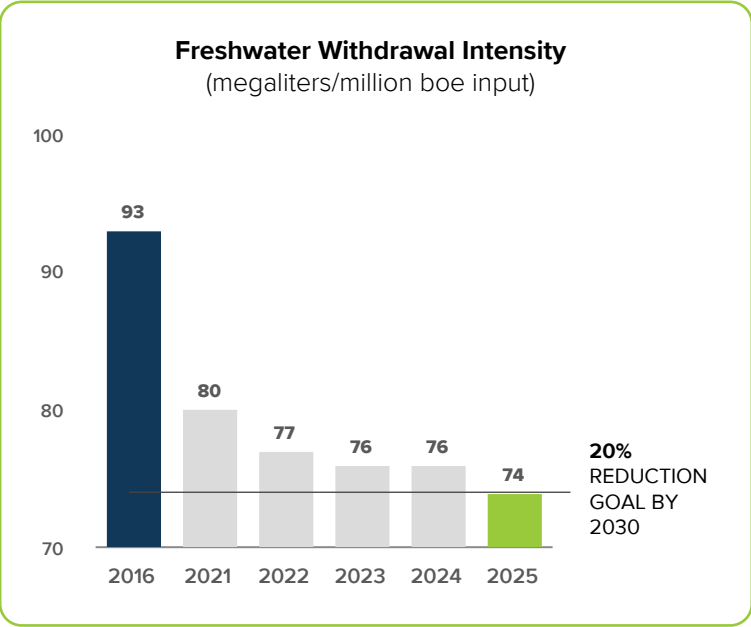
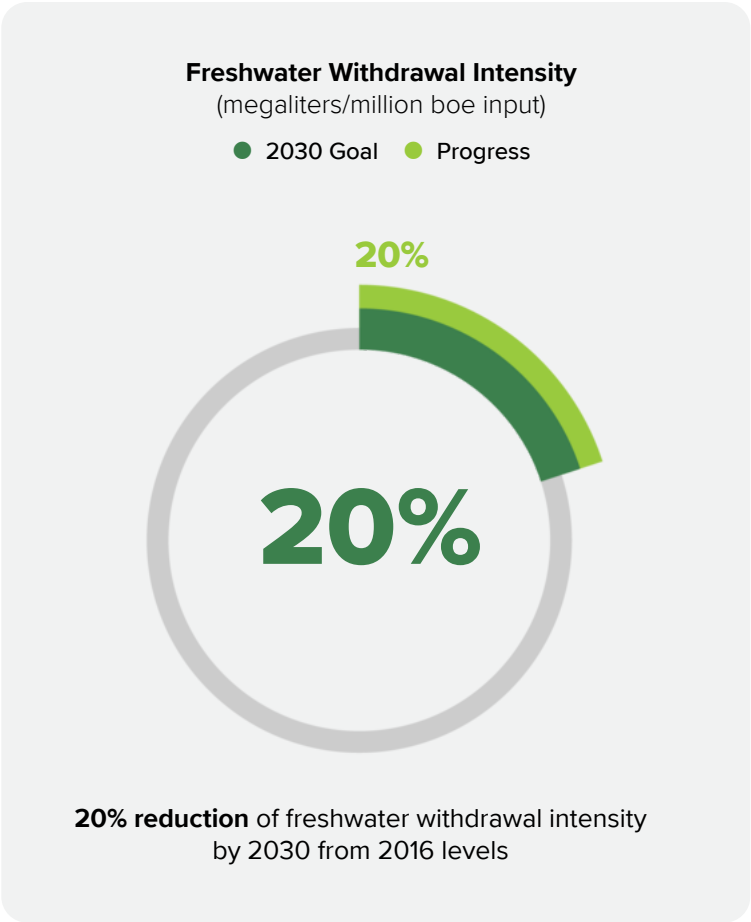
Water is vital to our operations. Depending on the location, we may source water from rivers, lakes, wells, municipal water systems and, in some cases, recycled sources. The majority of our companywide water demand comes from refining operations. In contrast, MPLX natural gas processing plants are designed to use little or no water in their routine operations. Nearly all natural gas processing plants use air-cooling systems that circulate hot product through air-cooled radiators, minimizing the need for water.

Uses in MPC

- Add heat to refining process (as steam)
- Clean equipment during maintenance activities
- Control emissions
- Generate hydrogen
- Protect equipment from corrosion
- Purify products (as stripping steam)
- Remove heat from the process (as cooling water)
- Remove salts and impurities from crude oil

Uses in MPLX

- Clean equipment during maintenance activities
- Create emulsions (asphalt blending)
- Install pipelines (horizontal directional drilling)
- Heat asphalt tanks (as steam)
- Remove impurities from natural gas
- Test pipeline and tank integrity (hydrostatic testing)



WATER MANAGEMENT ACTIONS

Improved capture and reuse of wastewater to reduce freshwater demand

Enhanced wastewater treatment technologies, including reverse osmosis systems

Optimized water use through operational control system improvements

Reduced steam and water demand through steam management initiatives and equipment upgrades

Managing Wastewater

We operate 11 biological treatment plants and four primary treatment facilities across our refineries and renewable fuels facilities. Water not reused or consumed is collected at these on-site facilities where it is either treated and recycled back into manufacturing processes, treated and discharged in accordance with applicable requirements, or treated and sent to a publicly owned treatment works. Water is treated to meet or exceed permit effluent limits before it is discharged to surface waters such as lakes, rivers and bays, helping to protect the quality of the water. Extensive monitoring, sampling, operator rounds and equipment surveillance are conducted to ensure that water discharges remain within permitted effluent limits.



Local Water Conservation

Water availability is a growing concern in many regions around the world, including parts of the U.S. Currently, three of MPC’s operating refineries — El Paso, Texas; Salt Lake City, Utah; and Los Angeles, California — plus one renewable fuels facility — Martinez, California — are located in medium to high water-stressed regions as defined by the Global Reporting Initiative (GRI) and World Resources Institute assessment tools. To help conserve water in these regions, as well as at other MPC refineries, our refining teams tailor site-specific plans using aspects of a nine-element management framework. The framework is designed to assess water use, identify and mitigate water risks, and uncover opportunities to reduce water use.

Each MPC refinery has designated engineers who serve as water coordinators, have defined baselines for assessing water use and maintain clear and consistent transparency with site leadership on how water is used through structured water monitoring and reporting.

To help manage and mitigate local water risks, we engage community members, government agencies and key water supply organizations. These engagements help us track and monitor the local water supply and plan for future changes in water quality, availability, accessibility, pricing and regulation. We support water supply organizations through membership, board leadership and committee participation.

Water supply organizations we engage with:

- American Petroleum Institute’s Clean Water Issues Group
- Brazos River Authority (Texas)
- California Council for Environmental and Economic Balance
- Far West Texas Water Planning Group
- Gulf Coast Water Authority (Texas)
- New Mexico Produced Water Research Consortium
- Utah Petroleum Association Water Work Group
- West Basin Water Association (California)



73%
of fresh water withdrawn from
nonwater-stressed areas¹

¹ World Resources Institute Aqueduct Water Risk Atlas

OUR WATER MANAGEMENT
FRAMEWORK

- 1

Water Limits
Actual water usage and discharges are tracked against known limits.
- 2

Accounting
Water monitoring programs integrate contractual water volume and cost.
- 3

Value Chain and Community Engagement
Mutually beneficial opportunities are sought to reduce water demands, costs and reliance on single-water sources.
- 4

Impacts
Water-related business and compliance issues are tracked, investigated and mitigated.
- 5

Risks
Water-related risks are identified and assessed based on impact to the company and community.
- 6

Targets and Goals
Water targets and goals are set.
- 7

Opportunities
Opportunities are identified and applied to meet water targets and goals and improve performance relative to benchmarking.
- 8

Monitoring and Performance
Water withdrawals are measured to benchmark water demands and understand consumption.
- 9

Commitment and Engagement
Expectations of water targets and goals are clearly communicated, and resources for successful implementation are assigned.

Water Conservation Results

Through a variety of innovations guided by our formal Focus on Water program, we continue to make strides improving the efficiency of our freshwater use and reducing our freshwater withdrawal intensity. In addition to achieving our freshwater withdrawal intensity target five years early, we continue to monitor freshwater performance metrics and implement efficiency initiatives to sustain performance and effectively manage water-related risks.

2025 MPLX Water Savings

To minimize operational disruption and conserve resources, MPLX teams are utilizing Fitness-for-Service (FFS) assessments in lieu of hydrostatic testing, where appropriate. This approach leverages advanced engineering analysis to verify tank integrity while conserving water and reducing operational downtime. Following a positive evaluation, an FFS certificate is issued and clearly defines any conditions such as operating limits and follow-up requirements.

MPLX Natural Gas and NGL Services saved

4.7 million+

gallons of fresh water through systematic conservation efforts, including the return of used, uncontaminated hydrostatic test water to local water depots or to the environment.

MPLX Crude Oil and Products Logistics saved

18 million+

gallons of fresh water by continuing to replace hydrostatic tests on storage tanks with the use of phased-array ultrasonic testing, X-ray inspections, magnetic particle examination and volumetric weld testing.

2025 REFINING PROJECTS TO REDUCE
FRESHWATER WITHDRAWAL

Detroit, Michigan, refinery

~62 million gallons projected annual savings through ongoing optimization of the reverse osmosis unit by raising the unit’s outlet pressure limit. The unit treats wastewater effluent for reuse, reducing the city water demand.

Salt Lake City, Utah, refinery

~27 million gallons projected annual savings through water softener optimization and increasing condensate return.

Garyville, Louisiana, refinery

~62 million gallons projected annual savings from a procedural change resulting in increased duration between softener regeneration cycles and decreased flow rates. Additional savings were identified on softeners through improved testing practices.

Galveston Bay, Texas, refinery

~556 million gallons projected annual savings by sending reverse-osmosis wastewater back to the influent water treatment plant, routing filtered backwash to the clarifier for reuse instead of going to the sewer and by installing a new resin, allowing for a reduced number of regeneration cycles on the demineralizer treatment units.

Robinson, Illinois, refinery

~36 million gallons projected annual savings by increasing the reverse osmosis unit recovery rate and conducting steam leak repairs.

Los Angeles, California, refinery

~52 million gallons projected annual savings by increasing flow to the condensate recovery tank of a hydrogen generation unit as a result of improved process control strategies.

~135 million gallons projected annual savings through well repairs and installation of a section of pipe that allows for the use of well water instead of city water.

Spill Prevention

Zero is always our goal.

Safe and reliable operations are at the core of how we protect communities, safeguard the environment and sustain long-term value for our business. We support this commitment through disciplined operational practices, a comprehensive pipeline integrity management program and advanced monitoring and inspection technologies.

In 2025, 99.9999% of all volumes transported via MPL-operated pipelines were delivered without a spill incident, reflecting the effectiveness of our prevention-focused approach and continuous investment in pipeline safety.

Pipeline Integrity Management

Our extensive Integrity Management program seeks to identify and respond to integrity threats to our pipeline systems. This program’s aim is to protect all areas from spills. We prioritize areas where a spill from a pipeline could affect a densely populated area, drinking water, ecologically sensitive zones or a commercially navigable waterway. Through annual risk modeling, we systematically identify potential hazards to each pipeline and assess their relative significance, allowing us to develop effective mitigation measures. These risks may include damage by third parties, corrosion, cracks, dents, operator error, manufacturing defects, equipment failure, geohazards or weather events.

PIPELINE INTEGRITY MANAGEMENT

Design and Construction

We apply rigorous inspection and quality-control procedures throughout pipeline design and construction. These include route and material selection, welding, testing and site restoration, and supporting safe and reliable operation throughout the asset life cycle.

Preventive Maintenance

Our pipelines and associated equipment undergo recurring inspection, testing and preventive maintenance to verify sound integrity and proper function. When warranted, we complete repairs and implement additional mitigation measures to proactively manage risk.



Corrosion Control

Coatings are applied to the outer surface of pipelines, and cathodic protection systems are installed along pipeline routes to help prevent external corrosion. Full cathodic protection inspections are conducted annually to verify that these systems are functioning properly. Internal corrosion is managed through the use of maintenance tools and, where appropriate, anticorrosive chemical injections to protect pipeline integrity.

Inspections¹

We use multiple, complementary inspection methods to assess pipeline condition and identify potential integrity concerns:

- Above-ground inspections: Aerial and ground patrols identify third-party activity, land disturbance and signs of release. Liquid pipelines are inspected at least every three weeks, and gas transmission pipelines at least annually.
- Navigable waterway crossing inspections: High-resolution sonar equipment is used to assess erosion and channel movement at water crossings at least once every five years for both liquid and gas transmission pipelines.
- In-line inspections: Advanced inspection tools travel through pipelines to measure pipe walls and detect dents, corrosion, cracking and other anomalies. Liquid transmission pipelines are inspected at least once every five years and gas transmission pipelines at least once every seven years.

Pipeline Safety Management

We educate landowners, first responders and community partners located near our pipelines about safe digging practices and emergency response.

➤ Learn more about the Earning Your Trust program in the Connecting with Communities section on [Page 34](#).

Geohazard Management

Our geohazard management program monitors, assesses and remediates risks associated with earth movement, including landslides and subsidence in varied terrain and geological conditions. The program includes employee training, periodic assessments and targeted mitigation actions grounded in industry best practices.

These efforts also support environmental protection through the application of sustainable landscapes along pipeline rights of way to reduce soil erosion and enhance subsurface stability.

➤ Learn more about our work applying sustainable landscapes to pipeline rights of way in our Sustainable Landscapes section on [Page 15](#).

Monitoring and Detection

Pipeline pressure, flow and volume are monitored 24/7 by trained personnel. Sensors and metering systems detect abnormal conditions, such as changes in pressure or flow rate, and alert control center staff to support prompt investigation and response.

¹ MPC and MPLX conform to inspection frequency requirements contained in 49 CFR 195 and 192. Listed inspection frequencies apply to regulated pipelines only.

Advancing In-Line Inspection

In 2025, we strengthened our in-line inspection (ILI) program by partnering with vendors on two issues — axial strain and pipeline metal loss. Axial strain is the longitudinal movement that pushes or pulls along the length of a pipe. Axial strain tools were evaluated through baseline and repeat inspections with field validation at areas of known or suspected ground movement. These tools improved detection of geohazard-related loading, such as landslides, and assessment of pipe response to external forces. To address pipeline metal loss, we applied high-resolution Magnetic Flux Leakage (MFL) technologies within pipeline integrity evaluations, upgraded with increased sensor density. This upgrade enhanced anomaly detection and sizing accuracy and reduced uncertainty in integrity evaluations.

We also collaborated with an ILI vendor to present and publish a technical paper at the Pipeline Pigging and Integrity Management Conference, sharing lessons learned to support broader industry advancement.

Innovating with New Technologies

Advanced Monitoring and Right-of-Way Inspection

We strengthen spill prevention and preparedness strategies through ongoing investment in advanced technologies that improve asset integrity, reduce incident risk and enhance response readiness across our operations.

We continue to expand the use of Flyscan, an artificial intelligence (AI)-driven right-of-way threat and leak detection technology that scans pipeline corridors from patrol aircraft with greater sensitivity and accuracy than traditional visual inspections. Our collaboration with Flyscan Systems Inc. continues to advance the capabilities of the technology and improve inspection practices across the pipeline industry.

AI-Enabled Leak Detection and Facility Monitoring

AI-enabled cameras support real-time monitoring at 172 of our remote pipeline facilities, with enhanced leak and threat detection functionality active at 129 locations. Traditional camera monitoring relies on human review or object-detection models that could miss subtle conditions.

To enhance detection sensitivity and accelerate response times, we developed an internal, camera-based leak detection model using AI Vision Language Models. Applied to existing video feeds, this technology interprets visual conditions, identifies abnormal patterns and detects potential liquid leaks and other anomalies within approximately 30 seconds. Following a successful pilot in 2025, this model continues to evolve, supporting faster detection, improved decision-making and enhanced pipeline safety.

In 2025, we further advanced these capabilities at 20 Los Angeles-area pipeline vault sites, which provide access to critical underground pipeline infrastructure. By deploying DirectC technology and implementing customized algorithms tailored to individual pipeline segments, we enabled faster response, earlier leak identification and reduced release volumes.



MARINE INTEGRITY MANAGEMENT

Our marine operations include Global Marine and Inland Marine environments, each presenting unique challenges. To address these challenges and minimize impacts to the public, wildlife and the environment, we deploy a comprehensive vessel vetting, inspection and compliance program for all vessels¹ we own, operate or charter.

As a member of the Oil Companies International Marine Forum (OCIMF) — and with representation on its executive board — we actively promote the safe and environmentally responsible transportation of oil and gas by water. Through leadership and participation in OCIMF committees, we contribute to the development of industry best practices that help inform International Maritime Organization (IMO) regulations and global Port State Control regimes, including oversight by the U.S. Coast Guard. Insights from this engagement also support the continuous enhancement of our marine integrity management practices.

Vetting and Inspection Programs

Our commitment to marine safety is reflected in rigorous vessel vetting and inspection requirements designed to help identify and address risks before they result in safety or environmental impacts. Key elements of our approach include:

- Comprehensive vessel screening against 43 regulatory and compliance sources, including U.S. Office of Foreign Assets Control sanctions and international regulatory watch lists such as the Paris Memorandum of Understanding blacklist.
- Strict eligibility criteria, under which vessels with poor inspection histories, unacceptable flag state performance or active sanctions are not permitted to conduct business with MPC.
- Use of OCIMF inspection programs — including the Ship Inspection Report and Barge Inspection Report — as a baseline for evaluating vessels we own, operate or charter, as well as vessels calling at third-party terminals where we hold tankage.

Port State Control Compliance

These vetting and industry inspection programs are complemented by Port State Control (PSC) oversight. Every vessel we own, operate or charter is subject to PSC inspections to verify compliance with applicable international, federal and local regulations. These inspections assess vessel condition, equipment integrity, crew qualifications and operational practices to confirm adherence to safety and environmental requirements.

¹ Includes tankers, bulk carriers, gas tankers, tugs, barges and articulated tug and barges.

Port of Long Beach
GREEN FLAG
AWARD

Marathon Petroleum earned the 2024 Port of Long Beach Green Flag Award in recognition of its continued participation in a voluntary vessel speed reduction program that reduces smog-forming emissions and diesel particulates near the port, supporting improved air quality and community well-being.

Emergency Preparedness

Meticulous planning and strategic preparedness are critical to responding effectively in the event of an emergency. Our comprehensive emergency preparedness and response program is designed to safeguard people, protect the environment and maintain safe, reliable operations. Through continuous improvement, training and investment in response capabilities, we work to minimize and mitigate potential impacts to our operations, communities and customers.

MPC’s Emergency Preparedness Group (EPG), in partnership with emergency preparedness professionals within each operating component, oversees the companywide emergency response program. The program focuses on continuously strengthening our ability to respond swiftly and effectively to emergency situations at any of our facilities or operating areas.

The EPG develops and maintains procedures and guidelines for managing emergency situations, while sharing resources and best practices with other business units. To support the effectiveness of our plans and alignment with regulatory expectations, the EPG coordinates routine evaluations of our response plans with regulatory agencies, including the U.S. EPA, the U.S. Coast Guard, the Pipeline and Hazardous Materials Safety Administration (PHMSA) and appropriate state agencies.

Each of our operational sites maintain site-specific emergency preparedness and response plans to address the distinct risks of each location, and receive additional support from local and/or regional emergency response teams. We conduct regular drills and exercises to ensure that our teams are equipped to respond with precision and confidence, should an incident occur.

For incidents larger in scope and complexity that exceed the resources available at a local facility, we activate support from Marathon’s Corporate Emergency Response Team (CERT). Comprised of more than 230 trained employees, CERT provides specialized expertise, corporate manpower and coordinated response management to support major emergencies. The team is maintained to ensure that corporate resources, operational support and response leadership are readily available. Each CERT member is highly trained and certified in the Incident Command System – a globally recognized framework for coordinating resources across multiple agencies and organizations.

EMERGENCY PREPAREDNESS EXERCISES

CERT members and other emergency response personnel participate in a wide range of training exercises to maintain a high level of readiness. These efforts include collaboration with federal, state, local and tribal responders – such as the U.S. EPA, the U.S. Coast Guard, state environmental protection or wildlife agencies, tribal government representatives and local emergency responders. In addition, MPC and MPLX maintain a robust response simulation program designed to test and continuously enhance our response capabilities.

- Our exercises follow the guidelines of the federal government’s National Preparedness for Response Exercise Program (PREP), ensuring compliance with the Oil Pollution Act of 1990 as well as all federal, state and local requirements.
- Exercises are designed to prepare for various emergency situations and to thoroughly review, critique and improve our emergency response plans.
- We take a collaborative approach to emergency preparedness. In addition to training our own employees and contractors, we actively engage federal, state, local and tribal agencies, local fire departments, law enforcement and other first responders and community leaders who have a vested interest in the design and development of our plans and exercises.



CERT Resources and Support

We maintain a structured incident response framework composed of specialized teams that provide operational, executive and functional support across a broad spectrum of emergency scenarios.

- **Emergency Strike Team:** A stand-alone response management team capable of supporting, supplementing or relieving roles in a major emergency.
- **Emergency Support Group:** Provides key support functions, such as IT, communications and geographic information system mapping during an incident.
- **Crisis Management Team:** Provides executive-level leadership response to MPC’s and MPLX’s needs during significant incidents.
- **Business Recovery Team:** Works to meet MPC’s, MPLX’s and customers’ needs during supply disruptions.
- **Threat Assessment Group:** Evaluates the potential impact of a threat to MPC or MPLX, informs impacted stakeholders and recommends steps to protect people and assets.
- **International Team:** Determines potential impacts, recommends response strategies and responds to incidents related to the shipment of crude oil and refined products outside the United States.

MPC and MPLX use a tiered response system that enables incidents to be managed at the local, regional or corporate level as needed.

TIERED RESPONSE SYSTEM

TIER 1

Incident responses are directed by a local response team

TIER 2

Incident responses are directed by a district/ regional response team

TIER 3

Incident responses are larger in scope and complexity and guided by the CERT

Preparedness in Action

In 2025, MPC conducted a three-day multistate CERT exercise in Huntington, West Virginia, with approximately 225 participants. Participants included employees, support contractors and representatives from more than 20 federal, state and local agencies, who collectively managed a complex emergency scenario under a Unified Command structure. Employees collaborated in real time across planning, operations, logistics, finance and public information functions. The exercise reinforced coordinated decision-making, effective public communication and the importance of strong partnerships with community stakeholders.

“It’s really important that we practice these scenarios, specifically this one with the community, because it’s so core to who Marathon is as a guardian of public safety, protecting the environment and being engaged in our communities.”

Aron Velasquez

Right of Way & Public Engagement Manager



Business Continuity

In addition to strengthening our emergency response capabilities, we continue to enhance our business continuity and resiliency plans across operations to ensure we can meet supply commitments during and after an emergency. Designated business continuity coordinators are embedded across the organization to maintain alignment, support informed decision-making and help ensure our energy products continue to reach markets during challenging conditions.

Reducing, Reusing and Recycling Waste

A key part of conserving natural resources is efficiently managing waste. We maintain a series of systems and processes designed to reduce waste generation and increase opportunities to recycle and reuse materials.

Waste Management

The volume of waste we generate in any given year varies significantly depending on scheduled maintenance and remediation activities. Waste management and minimization plans are in place across MPC and MPLX operating locations and help manage volumetric cycles. Plans are specific to each operating component and location and include elements to legally and responsibly manage waste.

WASTE MANAGEMENT AND MINIMIZATION PLAN ELEMENTS INCLUDE:

- Assessments
 - Characterization
 - Emergency preparedness
 - Employee training
 - Handling
 - Labeling
- Manifesting
 - Measuring
 - Proper disposal
 - Record-keeping
 - Storage
 - Tracking
 - Transporting

Waste Audits

Waste audits are conducted throughout our operations using a combination of record reviews and facility walk-throughs. Audits identify the types and volumes of waste being generated and opportunities to minimize waste.

Waste Management Vendor Approval Program

In addition to our contractor selection requirements and supplier selection process, we maintain a comprehensive Waste Management Vendor Approval program. This program assesses the health, environment, safety and security (HES&S) performance of waste disposal and recycling vendors before we will conduct business with them. Prospective vendors must disclose facility information, including types of waste managed, HES&S practices and compliance with state and federal waste regulations. Based on this information, MPC may conduct additional due diligence that includes background checks, legal reviews, CHWMEG¹ reviews and site audits. Approved vendors that remain in use are reevaluated on a recurring basis.

ELECTRONICS RECYCLING

Reducing electronic waste (e-waste) conserves energy, and supports responsible materials management by keeping harmful substances out of landfills. In 2025, MPC and MPLX recycled more than 212,000 pounds of e-waste including mobile devices, computers, monitors and other miscellaneous electronic devices.

Methods and Technologies to Minimize Waste

Reducing the amount of waste we generate carries significant environmental benefits. To support this effort, we continue to invest in and deploy methods and technologies that help reduce, reuse and recycle waste generated throughout our operations.



~\$27 million
invested in methods and technologies to reduce, reuse and recycle waste throughout the refining process in 2025

Waste is managed on- and off-site to recover hydrocarbons for reuse in the refining process and minimize the total amount of waste requiring other treatment or disposal. These waste management operations include a combination of:

- Centrifuging to separate water, oil and solids to reduce the volume of material prior to disposal.
- Thermal separation to recapture oil vapors so that they can be condensed back to the liquid phase.
- Thermal desorption to recover and return hydrocarbons to the refining process as feedstocks, remove hazardous characteristics of waste and reduce the total volume of waste.
- Coker injection to recover and recycle oil waste as feedstock and solid waste to become petroleum coke.



156,000+
barrels of oil reintroduced into the refining process to be turned into fuels or other products in 2025

RESOURCE RECOVERY AND REUSE

We use alternative methods to recover waste as a resource for manufacturing new materials. Some examples of this are using waste to fuel cement production, reusing spent caustic to manufacture paper and recycling spent catalyst for use in steel production.

Cement Kiln Disposal

Energy-rich refining byproducts serve as an alternative fuel source for the cement industry transforming waste into a resource. Since 2013, the use of approximately 133,000 tonnes of refinery waste have helped reduce overall CO₂e emissions when compared to coal used in cement manufacturing.

Spent Caustic Reuse

Recovered spent caustic from the refining process is being reused at mills to enhance operational efficiency. More than 19,000 tonnes of spent caustic from our refineries were reused by the paper goods industry. This reduces the need for newly manufactured chemical inputs, and the associated emissions, to the paper manufacturing process.

Spent Catalyst Reuse and Recycling

Spent catalyst from MPC refining hydroprocessing units is reused or reclaimed whenever possible, supporting a more circular approach to materials management. When it cannot be reused in our operations, it may be sent to a third party for use in the oil and gas industry. It may also be sent to business partners to recover valuable metals, such as vanadium and molybdenum, among others, to produce ferrovanadium and metal alloys, which are then used in steel production. In 2025, over 13,000 tonnes, or nearly all, spent catalyst from MPC refining hydroprocessing units were reused or reclaimed.

MPC's Transport and Rail organization is reducing waste through tire retreading. In this process, worn tires that are structurally sound receive new rubber tread, making the original as safe and reliable as a new tire. Avoiding full tire replacement reduces maintenance costs and materials consumption. In 2025, more than 2,800 retreaded tires were utilized, avoiding:



42,000+
gallons of oil used in tire production

115,000+
pounds of waste

8,000+
pounds CO₂ emissions from production and delivery

¹ A nonprofit organization that conducts comprehensive, independent HES&S reviews of commercial vendor sites/facilities that treat, store, dispose of, recycle or transport waste.

Air Quality and Emissions

Air quality is an important topic for us and our stakeholders. We engage regularly with stakeholders near our operations through open, ongoing dialogue about our air-quality programs. These programs aim to reduce emissions through operational controls, targeted technologies and monitoring, including flare reduction, fugitive emissions management and equipment upgrades.

Reducing Gas Flaring

Improved flare performance has been an important component of reducing criteria pollutant emissions from our refineries. These efforts include procedure-driven initiatives to minimize flare volumes, the installation of flare gas recovery systems and operational improvements. Flaring remains an important safeguard that enables the controlled release of gases under permitted conditions to protect people, equipment and the environment. Many of our refineries operate flare gas recovery systems that capture gas entering the flare system and return it to the refining process for use as fuel. These systems help reduce criteria pollutant and greenhouse gas emissions during flaring events while supporting safe, reliable operations. We have also contributed to advancing industry practices and technologies that further improve flare efficiency and reduce emissions.

Lowering VOCS

Through MPLX's Focus on Methane program, we have implemented targeted measures that achieve significant methane emissions reductions. When air emissions are more tightly controlled, it also can deliver separate, localized air-quality benefits. Since 2016, these efforts are estimated to have reduced MPLX methane emissions by approximately 16,000 tonnes per year and volatile organic compound (VOC) emissions by an estimated 650 tonnes per year.

➤ Learn more about MPLX's Focus on Methane program in our Methane Emissions section on [Page 11](#).

Minimizing Fugitive Emissions

We work to identify and address fugitive emissions as quickly and accurately as possible by deploying advanced detection technologies across MPC and MPLX operations. These include acoustic imaging cameras (FLUKE® Imagers) that detect air, gas and vacuum leaks — even in noisy environments — and confirm the effectiveness of repairs. We also use satellite imagery, aerial flyovers and drones to enhance and continuously improve detection capabilities and repair practices. Together, these tools support a proactive leak detection and repair approach that prioritizes rapid identification, verification of repairs and continuous improvement.

Transparent Community Air Monitoring

Transparency is important to building trust around air-quality performance. We have implemented detailed, near-real-time, public-facing air monitoring systems at our Detroit, Michigan, and Los Angeles, California, refineries and Martinez, California, renewable fuels facility. These systems provide easy-to-understand, color-coded air-quality information — including emission levels, wind direction, wind speed and temperature — and allow community members to opt in to receive air-quality alerts. By making this information readily accessible, we support informed dialogue and demonstrate accountability to these communities.



The Road to Reducing Nitrogen Oxide Emissions

Investing in the Los Angeles Refinery

As part of a multiyear effort to modernize operations and reduce environmental impacts, we completed the Los Angeles Efficiency and Modernization Improvements project in 2025. The project integrated the refinery's utility system across Carson and Wilmington operations, replacing aging boilers and steam turbines with high-efficiency electric motors and advanced boilers equipped with selective catalytic reduction. The project also disconnected the facility from a public electric utility and strengthened system reliability through new substations and transmission lines. With implementation complete, the improvements made are expected to deliver more than a 20% reduction in site-wide nitrogen oxide (NOx) emissions — approximately 390 tons per year from a 2017 baseline. The completion of the project is also expected to result in reduced carbon dioxide equivalent emissions, lower energy consumption and reduce water use by approximately 375 million gallons per year.

27%
reduction in companywide criteria
pollutant emissions since 2017

56%
reduction in companywide criteria
pollutant emissions since 2001

Driven by investments in emissions controls and operational improvements.

➤ To view our annual performance, see our performance data on [Page 49](#).