



CHALLENGING OURSELVES TO LEAD IN SUSTAINABLE ENERGY

Sustainability Report 2021

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On the cover:

MPC employees in Findlay, Ohio.

MPC at a Glance

135 YEARS

of experience in the energy business, with roots tracing back to 1887

MPLX

MPC's master limited partnership formed to own, operate, develop and acquire midstream energy infrastructure assets

2.9 MILLION

barrels per calendar day of crude oil refining capacity

11.8 BILLION

standard cubic feet per day of natural gas processing capacity

320

vessels and barges owned and operated through marine business

2.4 BILLION

gallons of renewable fuels delivered to consumers in 2021

~19,000

miles of pipelines we own, lease or have an ownership interest in

~600

transport trucks owned and operated

2 STRONG BRANDS

42.8 MILLION

barrels of terminal storage capacity

~13,100

rail tank cars we own, lease and operate

~8,250

North American branded and direct dealer locations



A MESSAGE FROM OUR CEO, MIKE HENNIGAN



As MPC and MPLX meet the energy needs of today and invest in an energy-diverse future, our approach to sustainability is key to our success. Only by applying the skill, perspective and creativity of our people in collaboration with community and other stakeholders do we advance our collective goals. We are challenging ourselves to lead in sustainable energy by strengthening the resiliency of our operations, innovating for the future and embedding sustainability in decision-making and how we engage our people and stakeholders.

We apply this approach to environmental, social and governance (ESG) as we execute our three strategic priorities — to strengthen the competitive position of our assets, embed a low-cost culture and improve commercial performance. We continue to challenge ourselves to lead in sustainable energy by deepening ESG commitments to drive long-term benefits for our business and stakeholders.

To enhance our suite of sustainability goals, in 2022 we became the first U.S. refining company to commit to an absolute Scope 3, Category 11 greenhouse gas (GHG) emissions reduction. Our absolute Scope 3 reduction goal of 15% below 2019 levels by 2030 builds on our goal to reduce Scope 1 and 2 GHG emissions intensity 30% below 2014 levels by 2030 — a goal linked to compensation. We also committed to reduce methane emissions intensity 75% below 2016 levels by 2030 across our natural gas gathering and processing operations. This expands on our previous 50% by 2025 methane goal, which we are pleased to report is nearing accomplishment. Aligned with our commitment to natural resource conservation, we continue to pursue our goal to reduce freshwater withdrawal intensity 20% from 2016 levels by 2030.

In 2022, we are allocating significant growth capital to renewables, including the conversion of our Martinez, California, refinery to a renewable fuels facility. When complete, the Martinez Renewable Fuels facility will be larger than any renewable diesel production facility operating in the U.S. today, while generating approximately 60% less GHG emissions per year than its prior operations.

To maintain a competitive workforce and reflect the diversity of our communities, we added a diversity, equity and inclusion metric tied to compensation — the first U.S. independent refiner to do so. In 2021, we exceeded the goal we set to increase BIPOC new hires, but fell short of our women new hire goal. We continue to improve our existing programs and evaluate new programs that will aid in the retention and recruitment of women. Through our DE&I strategy of building awareness, increasing representation, ensuring success, and measurement and accountability, we are embracing the power of our differences to strengthen our company.

This strength was put into action when we supported communities and coworkers impacted by Hurricane Ida. After initially providing food, water, hygiene items and funding, I am proud of how our people have continued to give of their time, talent and treasure to support long-term recovery. To date, MPC has activated over \$8.5 million in recovery assistance.

Across the board, our talented people put our sustainability goals into action in ways that offer concrete examples of leadership. Our energy efficiency performance was recognized with a third consecutive ENERGY STAR® Partner of the Year — Sustained Excellence Award from the U.S. Environmental Protection Agency. Only 16 companies from across the entire U.S. industrial sector received the recognition, and we were the only recipient with fuels manufacturing as its primary business. In December 2021, our subsidiary Virent's bio-based fuel technology was used in the first commercial passenger flight using 100% sustainable aviation fuel compatible with today's jet engines.

I invite you to read on to learn about the ways we're working together to provide the energy the world needs in responsible and sustainable ways. We are open to your feedback and welcome you to share your thoughts with us at sustainability@marathonpetroleum.com.

Sincerely,

Michael J. Hennigan
President and Chief Executive Officer, MPC and MPLX
June 2022

2021 SUSTAINABILITY HIGHLIGHTS

First independent U.S. downstream energy company to establish an

ABSOLUTE SCOPE 3 - CATEGORY 11 GHG EMISSIONS INTENSITY TARGET

to reduce 15% below 2019 levels by 2030

Expanded our

METHANE EMISSIONS INTENSITY TARGET

to reduce 75% by 2030 from 2016 levels

First independent U.S. downstream energy company to establish a

DIVERSITY, EQUITY AND INCLUSION GOAL

linked to compensation



23% REDUCTION

in companywide **Scope 1 and 2 GHG emissions intensity** since 2014

46% REDUCTION

in **methane emissions intensity** since 2016

15% REDUCTION

in **freshwater withdrawal intensity** since 2016



Established a pipeline right-of-way **BIODIVERSITY TARGET**



**\$21
MILLION+**
invested in communities
by MPC and MPLX

Third consecutive
**U.S. EPA
ENERGY STAR®**
Partner of the Year – Sustained
Excellence Award and four
additional Challenge for
Industry Awards



Virent's products used in
**1ST COMMERCIAL
PASSENGER
FLIGHT**
with 100% sustainable
aviation fuel

**100%
SCORE**
on Human Rights
Campaign Corporate
Equality Index

DOW JONES
Sustainability™ North
America Index
for the third straight year

FIVE
American Fuel
& Petrochemical
Manufacturers
safety awards



OUR APPROACH TO SUSTAINABILITY

At MPC and MPLX, our commitment to sustainability means taking actions that create shared value with our stakeholders — **empowering people to achieve more, contributing to progress in our communities and protecting the environment we all share.** We are challenging ourselves to lead in sustainable energy — meeting the needs of today while investing in an energy-diverse future. This objective drives us to strengthen the resiliency of our business, innovate for the future and embed sustainability in all we do.



STRENGTHEN RESILIENCY

Strengthening our business for today, while building durability for the future

We operate with an understanding of the potential environmental impacts of our business. This understanding informs our commitment to lower the carbon intensity of our operations and the products we manufacture, improve the energy efficiency of our operations and advance practices that conserve natural resources.



INNOVATE FOR THE FUTURE

Investing in the energy evolution to lower carbon intensity and capture value

We strive to be a market leader in the production and delivery of renewable fuels, seek ways to expand the use of renewable energy in our operations and deploy emerging technologies that reduce environmental impact while enhancing business performance.



EMBED SUSTAINABILITY

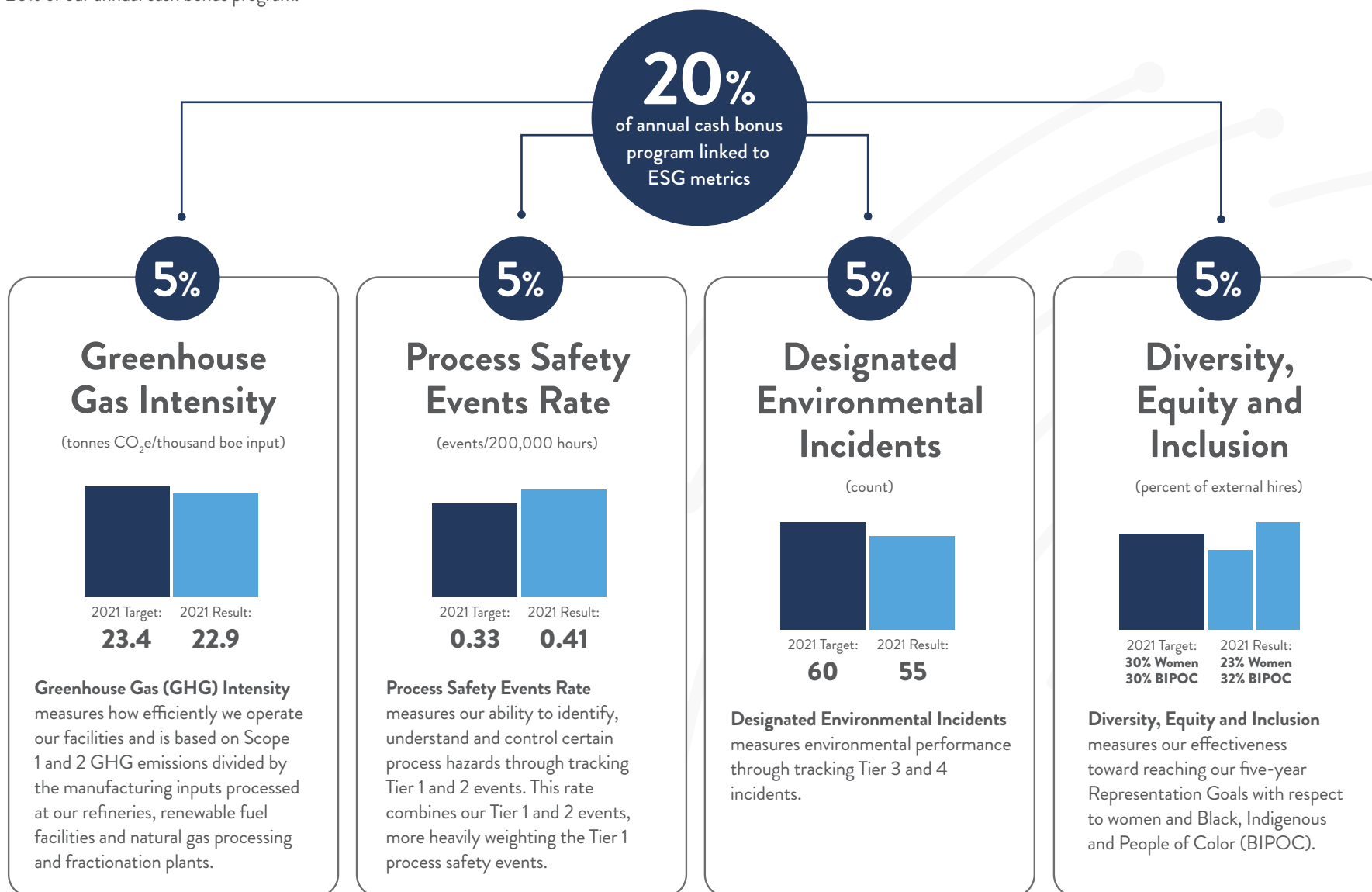
Embracing sustainability in decision-making, in how we engage our people and in how we create value with stakeholders

We are committed to protecting the health and safety of our employees and the public, responsibly managing our social impacts, promoting diversity, equity and inclusion and maintaining accountable and transparent governance.



ESG PERFORMANCE LINKED TO COMPENSATION

Safety and environmental performance have long been a part of our companywide annual cash bonus programs. In 2021, we introduced a diversity, equity and inclusion (DE&I) component — making us the first U.S. independent downstream energy company to link improving diversity representation to compensation, in the same way we led the industry in linking GHG intensity reductions to compensation. Our ESG metric, which includes DE&I, GHG intensity and environmental and safety performance components, is weighted at 20% of our annual cash bonus program.



STAKEHOLDER ENGAGEMENT AND SHARED VALUE

At MPC and MPLX, we value open dialogue with our stakeholders, including employees, shareholders, business partners, customers, the communities we call home and governments. Our sustainability strategy is guided by ongoing dialogue with stakeholders to inform our understanding of the issues and trends facing our industry and company. We seek to understand stakeholder perspectives and incorporate their feedback and insights into our approach to sustainability.

2021 BY THE NUMBERS



HOW WE ENGAGE

<ul style="list-style-type: none"> • Code of Business Conduct • Integrity Helpline • CEO communications • Regular employee communications • Performance management • Safety meetings • Training and professional development • Employee Network Groups • Wellness programs 	<ul style="list-style-type: none"> • Investor presentations and conferences • Engagement with analysts and portfolio managers • Engagement with investor stewardship teams • Annual Shareholder Meeting • SEC filings • Press releases 	<ul style="list-style-type: none"> • Supplier Code of Conduct • Business partner reviews • Sourcing process • Contract management • Supplier diversity program • Value creation opportunities • Supplier audits • Supplier recognition awards • Strategic partnership management 	<ul style="list-style-type: none"> • Global, regional and local industry events, forums and conferences • Company events and meetings • Partnerships and working groups to advance best practices 	<ul style="list-style-type: none"> • Websites, news and social media • Community investment programs • Community engagement and board representation • Bridge programs • Employment • Landowner events • Focus groups • Community surveys • Facility tours • Community hotlines • Community Advisory Panels • Facilitation of community events • Sponsorships 	<ul style="list-style-type: none"> • Advocacy • Policy development • Industry and trade association representation • Regulatory compliance • Permit reviews • Regulatory audits • Collaboration on community investment projects • Facility tours • Marathon Petroleum Corporation Employees Political Action Committee
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¹ Excludes crude/feedstock purchases

² Includes sales, use, excise taxes

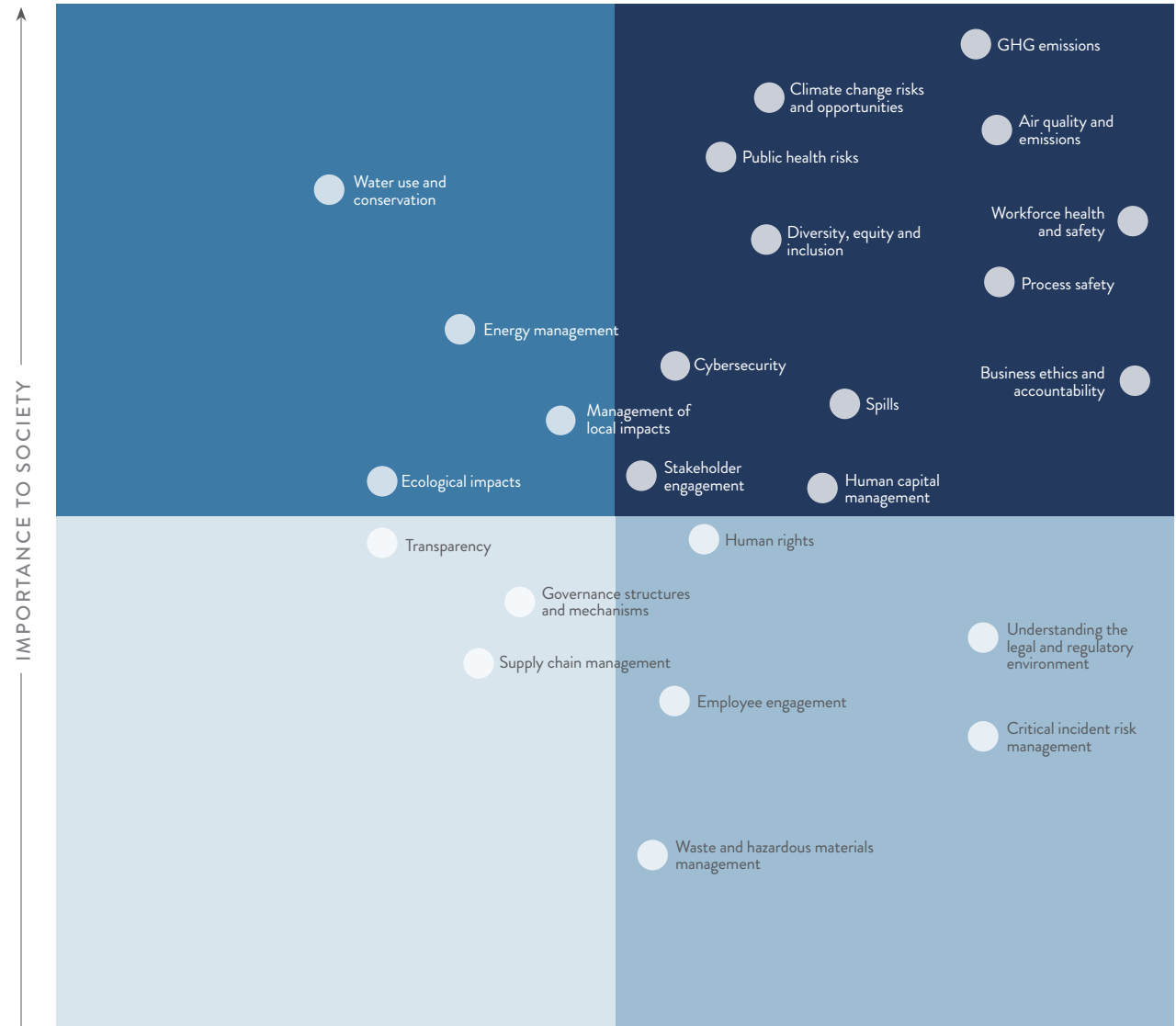
IDENTIFICATION OF MATERIAL SUSTAINABILITY REPORTING TOPICS

In 2021, we refreshed and updated our reporting materiality assessment to prioritize environmental, social and governance (ESG) topics based on external developments and stakeholder feedback. Consistent with Sustainability Accounting Standards Board (SASB) and Global Reporting Initiative (GRI) Core reporting guidelines, we continued to focus on topics that reflect significant ESG impacts and enable stakeholders to assess our company performance.

We engaged both external and internal stakeholders to understand their perspectives on a broad range of identified topics. We had extensive engagement with stakeholders and shareholders holding over 70% of our outstanding shares. Discussions included a wide range of issues, such as climate change risks and opportunities, executive compensation, incentivizing ESG goals through compensation, Scope 3 targets and political engagement, including trade associations and climate lobbying.

We combined the updated information gathered from these engagements with insights from industry benchmarking, governmental regulations, voluntary initiatives and analysis of online news and social media trends utilizing Datamaran®. The majority of our topics remain and are of similar priority relative to our previous materiality analysis in 2021. One new topic, management of local impacts, was added this year. This topic refers to the mechanism to assess, manage and mitigate any potential direct or indirect negative impacts of our business in the local communities in which we operate.

Material Reporting Topics¹



¹Distinct from concepts of materiality in financial reporting and under securities laws, material sustainability topics according to GRI consider impacts an organization may have on the broader economy, environment and society and factors viewed as important to stakeholders

● MOST SIGNIFICANT ● HIGHLY SIGNIFICANT (EXTERNAL) ● HIGHLY SIGNIFICANT (INTERNAL) ● SIGNIFICANT

STRENGTHEN RESILIENCY

Strengthening our business for today,
while building durability for the future

Lowering Our Carbon Footprint → 11

Conserving Natural Resources → 18

LOWERING OUR CARBON FOOTPRINT

Scope 1 and 2 GHG Emissions Intensity Target

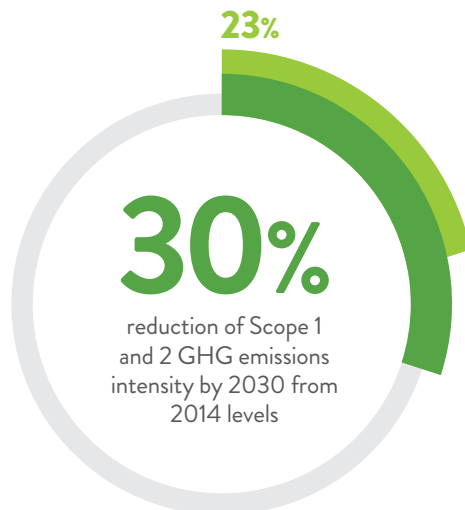
Adopted in 2020, our greenhouse gas (GHG) emissions intensity reduction target encompasses both Scope 1 emissions — direct emissions from our operations and Scope 2 emissions — indirect emissions from the electricity and steam we purchase to support our business activities.

Since 2014, we have achieved a 23% reduction in our companywide Scope 1 and 2 GHG emissions intensity.

SCOPE 1 AND 2 GHG EMISSIONS INTENSITY



● 2030 Goal ● Progress

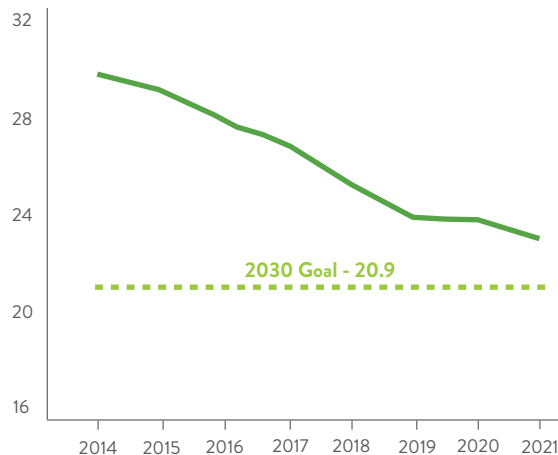


We have achieved this reduction through multiple initiatives, including our Focus on Energy program, the acquisition and expansion of our MPLX natural gas gathering and processing (G&P) business and our growth in renewable fuels.

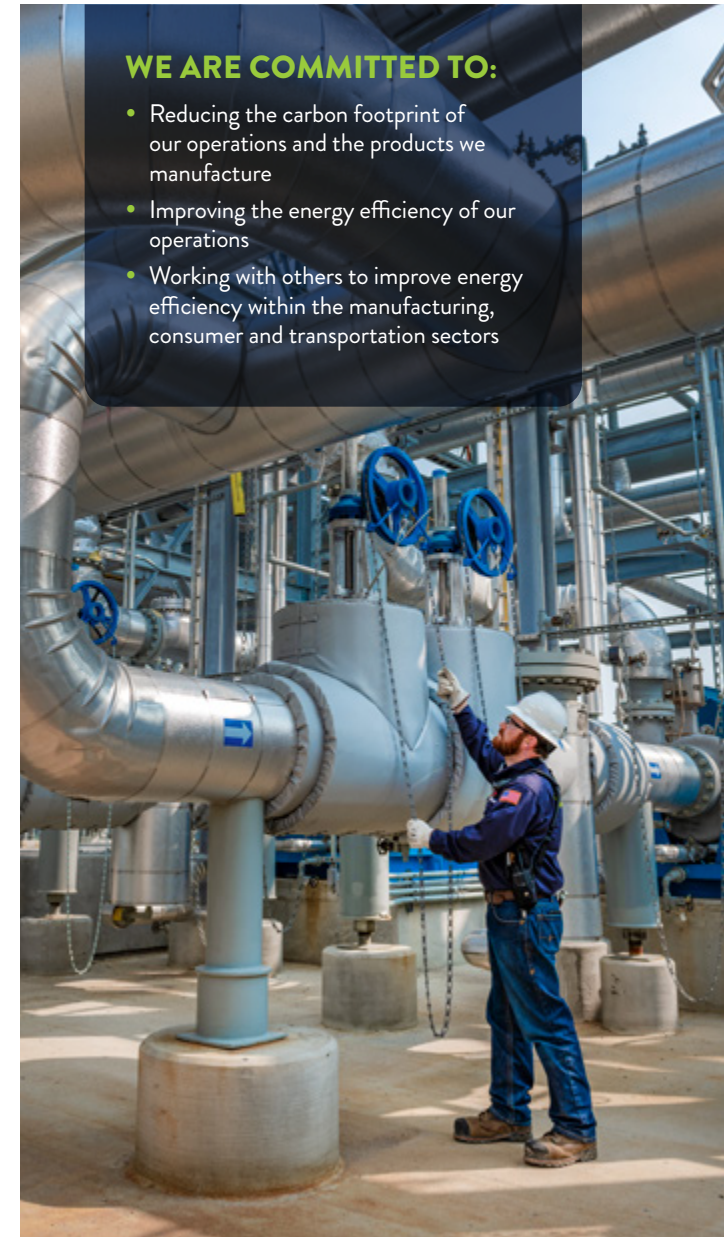
Some other notable items related to our Scope 1 and 2 GHG emissions:

- Since 2014, our refining Scope 1 and 2 emissions have decreased on an absolute basis by 13% while absolute companywide Scope 1 and 2 emissions have decreased by more than 5% even with the expansion of our MPLX G&P and renewable fuels business.
- Since 2019, our companywide Scope 1 and 2 emissions have decreased by over 11%.

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



Eighth consecutive year in reducing our Scope 1 and 2 GHG emissions intensity



WE ARE COMMITTED TO:

- Reducing the carbon footprint of our operations and the products we manufacture
- Improving the energy efficiency of our operations
- Working with others to improve energy efficiency within the manufacturing, consumer and transportation sectors

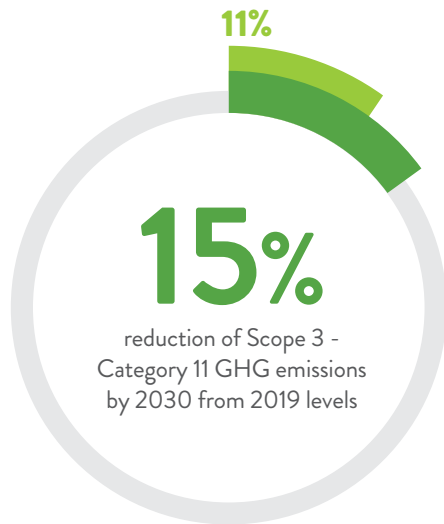
Scope 3 Emissions

Scope 3 emissions result from the use of our sold products and are not directly controlled by MPC. MPC established a 2030 target to reduce absolute Scope 3 – Category 11 GHG emissions by 15% below 2019 levels. MPC’s Scope 3 target covers Category 11: Use of Sold Products, for products manufactured at the company’s refineries. Informed by guidance from the Science Based Targets initiative (SBTi) and Ipeca, the calculation of Scope 3 – Category 11 emissions is based on refinery yields because MPC’s refinery yields are larger than marketed volumes.

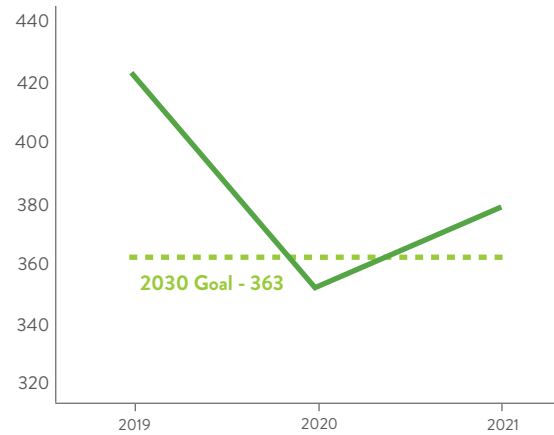
ABSOLUTE SCOPE 3 - CATEGORY 11 GHG EMISSIONS



● 2030 Goal ● Progress



Refining Scope 3 - Category 11 GHG Emissions
(million tonnes)



2020 data is not representative of a normal year because production was impacted by COVID-19.

Since 2019, we have achieved an 11% reduction in our Refining Scope 3 – Category 11 GHG emissions.

This significant reduction was achieved, in part, by ceasing crude processing at three petroleum refineries. One refinery has been successfully converted to renewable diesel production and another is undergoing such conversion.

Additional detail on our GHG emissions, including climate change risks and opportunities, can be found in our annual [Perspectives on Climate-Related Scenarios](#) report.



Capital Allocation

Our risk-based strategy for capital allocation is designed to drive capital discipline and long-term competitive returns for our shareholders. We continue to require higher return-on-investment (ROI) thresholds for projects with greater financial and regulatory uncertainty than those with more stable cash flow and less regulatory risk. The ROI thresholds are highest for refining investments where high carbon pricing and market uncertainty impose more risk. This acts as a de facto carbon price because refining projects, with the highest carbon exposure, must overcome a much higher hurdle rate than, for instance, investments in our MPLX natural gas G&P business, with lower carbon exposure. Projects are also individually evaluated against our long-term price forecast, which considers the demand projections from various Paris-aligned scenarios along with our GHG, methane and water intensity reduction targets. These targets provide a backstop to align investments with our strategies to reduce GHG intensity and footprint over time.

This process is driving significant capital investment that supports a lower-carbon future. For example, we are investing to convert our Martinez, California, refinery into a renewable diesel facility. This is in addition to more than \$500 million of growth capital invested to convert our Dickinson, North Dakota, refinery. As a result of these two asset conversions, we expect to become one of the largest renewable diesel producers in the world. Further, we continue to invest growth capital to expand and increase utilization of our strategic natural gas business. Finally, of the growth capital allocated to our legacy refining assets, the vast majority is directed at strengthening the competitive position of our assets rather than increasing capacity.

WE INCORPORATE ENERGY AND GHG MANAGEMENT INTO PROJECT DESIGN, SO THAT OUR COLLECTIVE GROWTH PROJECTS SUPPORT OUR 2030 GOALS

Focus on Energy

Through our Focus on Energy program, we have achieved significant energy reductions and cost savings, including avoiding the equivalent of nearly 2 billion Btu/hour of energy use and over \$65 million per year in costs. This is roughly the same amount of energy used by over 100,000 homes in a year.

2021 ENERGY REDUCTION EXAMPLES:

Detroit Refinery

CHANGING COMPRESSOR USAGE

A change in compressor usage is allowing the Detroit refinery to meet the needs of its flare gas recovery (FGR) system while cutting electricity costs, energy intensity and Scope 2 GHG emissions.

After feasibility tests, the refinery confirmed it could optimize the compressor utilization with a new compressor arrangement. To implement the new arrangement, the refinery completed multiple control improvements. These adjustments reduced baseline natural gas flow to the flare, improved compressor startup and switching operation and now require only one small compressor to remain online in normal situations.

The anticipated annual benefits include:

- Reducing electricity consumption by almost 3,500 megawatt-hours per year saving \$191,000
- Lowering the refinery's energy intensity index level 0.2 points
- Eliminating more than 2,000 metric tons per year of Scope 2 GHG emissions

Galveston Bay Refinery

IMPROVING REACTOR EFFICIENCY

Our Galveston Bay refinery implemented an advanced process control application that continually optimizes the reactor systems in two naphtha desulfurization units, generating cost savings and reducing emissions and energy intensity.

The refinery anticipates:

- Saving more than \$530,000 a year in combined hydrogen and natural gas costs
- Reducing annual Scope 1 GHG emissions by 6,933 metric tons and annual Scope 3 GHG emissions by 1,568 metric tons

Robinson Refinery

COMMITTED TO MAINTAINING A ROBUST INSULATION PROGRAM

An audit of the crude oil and ultraformer units at our Robinson refinery helped quantify the benefits of a healthy insulation program. Insulation improvements reduced energy consumption by nearly 100 billion Btu per year, saving almost \$400,000 annually. More importantly, Robinson reduced its CO₂e emissions by over 5,000 metric tons per year.

In addition to annual audits, our employees' diligence is just as important to maintaining a healthy insulation system. If employees see missing or damaged insulation, we ask them to notify the Operations or Maintenance Departments. This is especially important after large planned maintenance periods or outages, when insulation may have been removed to repair or inspect a piece of equipment. One small piece of missing insulation may seem inconsequential, but several across the refinery can add up to a substantial impact.



MPLX CONTINUES TO DRIVE ENERGY EFFICIENCY IMPROVEMENTS

Smart-Start Vapor Recovery

MPLX terminals utilize vapor recovery units (VRUs) to recover vapors as trucks are loaded with fuel. Continuous emission monitors equipped with Smart-Start processing equipment allow the VRUs to operate only while loading, saving power and decreasing emissions. Utilizing Smart-Start technology at 55 VRUs across MPLX terminals avoided 17,930 metric tons of CO₂ emissions in 2021.

Variable Frequency Drives

MPLX terminals use centrifugal pumps to deliver gasoline, diesel and jet fuel to barges, rail cars, trucks and ships that take our product to its next distribution point. These pumps are sized to deliver product at various flow rates depending on how many loading arms are active at any given time. Historically, the pumps would run at maximum speed to deliver whatever flow is required. Variable Frequency Drives (VFD) are electrical devices that can be installed to control the speed of the motors that are powering our pumps. By controlling the speed of the pump to deliver just the right flow rate at the desired pressure, there is less energy wasted through the system. MPLX has partnered with an energy consultant to develop a tool that will calculate and identify energy savings based on historical pump and motor data. Results will be used to determine where to best deploy the VFD technology.

Recognized for Energy Efficiency Efforts

MPC has earned its third consecutive ENERGY STAR® Partner of the Year – Sustained Excellence Award, the highest level of recognition in the U.S. Environmental Protection Agency’s (EPA) ENERGY STAR program.

This honor acknowledges the success of companywide energy efficiency and environmental compliance efforts in 2021 and the company’s ability to maintain a superior level of performance over time. Only 16 companies across the entire U.S. industrial sector received the Partner of the Year - Sustained Excellence Award this year.

The EPA chooses Sustained Excellence Award winners at its discretion from companies that earned ENERGY STAR Partner of the Year recognition for a minimum of two consecutive years and then continued to go above and beyond the criteria needed to qualify for the award. Partner of the Year honorees must demonstrate best practices across their organizations, prove organizationwide energy saving; and participate actively in the ENERGY STAR program.

EPA'S ENERGY STAR CERTIFICATIONS

Five MPC refineries received EPA's ENERGY STAR certifications for top quartile energy performance in given refinery class along with top environmental performance:

- ★ **Anacortes, Washington**
Second consecutive and second overall certification
- ★ **Canton, Ohio**
16th consecutive and 16th overall certification
- ★ **Garyville, Louisiana**
16th consecutive and 16th overall certification
- ★ **Robinson, Illinois**
Fourth consecutive and seventh overall certification
- ★ **St. Paul Park, Minnesota**
Third consecutive and fourth overall certification



EPA'S ENERGY STAR CHALLENGE FOR INDUSTRY

The ENERGY STAR Challenge for Industry is a national call to action to improve the energy efficiency of America’s manufacturers by 10% or more. By taking the ENERGY STAR Challenge, manufacturing sites set a goal to reduce their energy intensity by 10% within five years.

Four MPC terminals have achieved the EPA's ENERGY STAR Challenge for Industry by reducing energy intensity — bringing the total to 10 terminals in the program.

- ★ **Cincinnati, Ohio**
- ★ **Jackson, Michigan**
- ★ **Lansing, Michigan**
- ★ **Muncie, Indiana**

Through investments in technology, each terminal is helping to reduce greenhouse gas emissions caused by energy use. Combined, the four terminals have reduced more than 2,100 metric tons of greenhouse gases and saved enough energy to power 413 homes for one year.

Focus on Methane

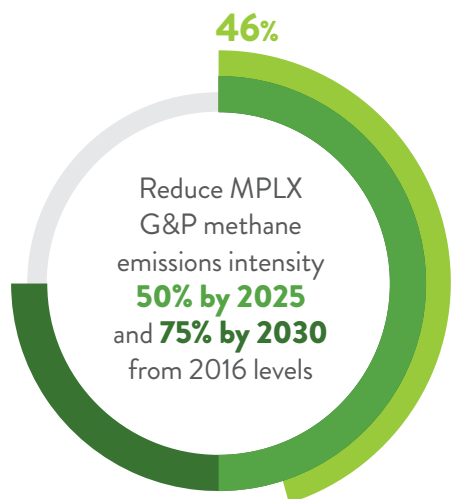
In 2022, MPLX expanded our methane emissions intensity reduction target to 75% below 2016 levels by 2030. The reduction target applies to MPLX's natural gas G&P operations and is an expansion of our existing 2025 target to reduce methane emissions intensity by 50% below 2016 levels.

Through MPLX's Focus on Methane program, a holistic approach to voluntarily reduce methane emissions across MPLX's natural gas gathering and processing operations, we have reduced our methane emissions intensity 46% from 2016 levels.

METHANE EMISSIONS INTENSITY REDUCTION TARGET



● 2030 Goal ● 2025 Goal ● Progress



Natural gas, which consists primarily of methane, emits half the carbon dioxide of coal when used to generate electricity. To fully realize the climate benefits of natural gas, it is important to minimize leaks, venting and flaring of methane.

MPLX continues to implement measures that minimize and eliminate methane emissions through our Focus on Methane program, with the aim of ensuring that natural gas delivers on its promise of significantly lower carbon intensity as compared to coal.

MPLX FOCUS AREAS FOR METHANE REDUCTIONS

	Reductions Achieved Since 2016 (tonnes per year)	Additional Reductions Expected Through 2030 (tonnes per year)
Pneumatic Devices <ul style="list-style-type: none"> Over 80% of 25,000+ pneumatic controllers are powered by compressed air Eliminate all ~340 high-bleed pneumatic controllers from service by end of 2022 Convert ~3,400 intermittent-bleed pneumatic controllers to compressed air or lower emitting devices Route methane emissions from pneumatic pumps to control devices Enhance monitoring of pneumatic devices 	~1,500	~7,000
Pipeline Launchers and Receivers <ul style="list-style-type: none"> Optimized existing pipeline launchers and receivers that are opened frequently Installed new installations with a smaller launcher/receiver chamber Modified purging practices to reduce venting events 	~1,000	-----
Fugitive Leak Detection and Repair (LDAR) <ul style="list-style-type: none"> Implement LDAR programs at all compressor stations by the end of 2023 Employ advanced monitoring technologies such as satellite imagery, flyovers, drones and fenceline monitoring to conduct more frequent/real-time monitoring 	~500	~ 1,000
Compressor Rod Packing Changeout <ul style="list-style-type: none"> Install monitoring ports to complete periodic monitoring and proactively replace compressor rod packing when warranted Install low-emission rod packing, where feasible, as rod packing is changed 	~500	~1,000
Maintenance Venting and Other Controls <ul style="list-style-type: none"> Optimizing necessary maintenance venting and blowdowns to reduce emissions going to the atmosphere, including using vapor recovery units and/or portable flares Installing additional miscellaneous controls where appropriate (e.g. select tanks) 	~5,000	~2,000
Total Reductions	~8,500	~11,000

MPLX Partners to Advance Quantification, Monitoring, Reporting and Verification of GHG Emissions

In early 2022, MPLX announced a collaboration with Cheniere Energy, Inc. (Cheniere) and other natural gas midstream companies, methane detection technology providers and leading academic institutions to implement quantification, monitoring, reporting and verification (QMRV) of GHG emissions at natural gas gathering, processing, transmission and storage systems specific to Cheniere's supply chain.

The program is intended to improve the overall understanding of GHG emissions and further the deployment of advanced monitoring technologies and protocols. The QMRV program will support Cheniere's Cargo Emissions Tag initiative to provide GHG emissions data to customers for liquefied natural gas (LNG) cargoes, a critical first step for the industry to quantify GHG emissions, enhance transparency and over time look for reduction opportunities to maximize the climate benefits of LNG.

The midstream QMRV work will be conducted by emissions researchers from Colorado State University and the University of Texas. The measurement protocol designed by the research group and Cheniere will be field tested at MPLX facilities that are part of Cheniere's supply chain.

The midstream QMRV program involves a combination of ground-based, aerial and drone-based emissions monitoring technologies. The midstream QMRV program requires emissions monitoring over at least a six-month period, with all data independently analyzed and verified by the project's academic partners.

By participating in the program, MPLX will gain expertise in advanced monitoring techniques and technologies that we can leverage to further reduce methane emissions throughout our vast gas gathering and processing network.



PARTNERING TO IMPROVE ENVIRONMENTAL PERFORMANCE

In 2022, MPLX joined The Environmental Partnership, which is a coalition of nearly 100 oil and natural gas companies committed to continuously improving environmental performance in members' operations across the country.

The Environmental Partnership provides a platform for the industry to collaborate with stakeholders and share best practices and new technologies. The Partnership's goals are consistent with the aims of our Focus on Methane program.

Specifically, partners commit to the following:

- A program to replace, remove or retrofit high-bleed pneumatic controllers
- A program to install or retrofit pneumatic controllers with lower- or zero-bleed methane emissions devices
- A leak detection and repair program for natural gas and oil facilities
- A program to reduce emissions from compressors
- A program to reduce emissions from pipeline blowdowns and flaring



**~\$1
BILLION**

amount we invested in 2021
to improve the environmental
performance of our assets

**59%
REDUCTION**

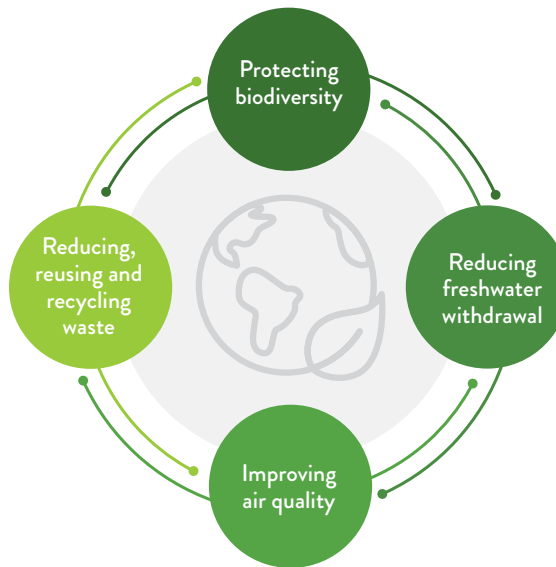
in Tier 3 and 4 DEIs since 2018

CONSERVING NATURAL RESOURCES

We are committed to living out our core value of Safety and Environmental Stewardship by minimizing our environmental impact.

Across the company, we have implemented advanced practices and technologies and made significant investments to conserve natural resources.

WE ARE DEDICATED TO THESE PRIORITY AREAS:



Environmental Management

Our Operational Excellence Management System (OEMS) is third-party reviewed for alignment with the RC14001® standard. This standard incorporates our environmental stewardship policies, which include responsibilities to assess and minimize our environmental impact, train our employees on environmental management best practices and communicate with stakeholders about the environmental impacts of our products and operations.

Holding Ourselves Accountable

We link environmental performance to employee compensation and measure it using the Designated Environmental Incident (DEI) metric. It tracks three categories of environmental incidents: spills, environmental permit exceedances and agency enforcement actions. We use four DEI tiers to measure severity, with Tiers 1 and 2 being the least severe and Tiers 3 and 4 being more severe.

30,000+ HOURS OF ENVIRONMENTAL
TRAINING FOR MPC EMPLOYEES



Biodiversity: A Long-Standing Commitment

MPC and MPLX use proactive measures to protect the diverse plant and animal species and to preserve their natural habitats in areas where we operate. Our OEMS provides the procedural framework to account for the potential effects of our activities on ecosystems and prepare necessary mitigation procedures.

Our [Commitment to Biodiversity](#) details our approach and practices. It emphasizes that we seek first to avoid, then minimize or offset, impacts to biodiversity. We are mindful that operating within communities is a privilege, and we collaborate with local stakeholders and applicable state and federal regulatory agencies, including the U.S. EPA, U.S. Fish and Wildlife Service, U.S. Bureau of Land Management (BLM) and U.S. Army Corps of Engineers.

Protecting Biodiversity throughout the Asset Life Cycle

Throughout the asset life cycle, we work to avoid ecologically sensitive areas. When land disturbance in these areas is unavoidable, we use a variety of recognized best-management practices and techniques to mitigate our impacts during the asset's life cycle. In situations where complete restoration presents challenges, we at least offset impacts to sensitive areas in several ways, including purchasing mitigation credits through approved mitigation banking sources or using other mechanisms to provide ongoing protection to similar ecologically sensitive properties.

Our policies and practices for siting, constructing, operating, maintaining and decommissioning are designed to protect the environmental quality of the habitats in and around our operations. These policies and practices are aligned with the International Finance Corporation's Performance Standards on Environmental and Social Sustainability¹.

AT EACH STAGE OF THE ASSET LIFE CYCLE WE:

- Identify and engage impacted stakeholders to solicit feedback that, in turn, becomes part of our decision-making process.
- Conduct environmental impact assessments when necessary, including field studies, to evaluate impact to 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 achievement of the intended objectives.

Protecting Endangered Species

We utilize a companywide Migratory Bird Protection Guidance to guard against interfering with the seasonal patterns of migratory birds. This guidance corresponds with legal requirements of the Endangered Species Act, Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act and other regulations for state-designated special species of concern.

In 2021, on a pipeline system in Wyoming, we voluntarily postponed projects near areas of potential habitats for nesting raptors. The decision was made to begin work when all remaining fledglings vacated their nests.

10 WAYS WE MITIGATE BIODIVERSITY IMPACTS THROUGHOUT THE PIPELINE LIFE CYCLE:

1. Incorporating **species preservation** into operational approaches, including voluntarily adopting both temporary and permanent changes to prioritize endangered species and their critical habitats.
2. Developing our **construction schedules** to avoid disrupting species migration, spawning, nesting and other activities.
3. **Limiting pesticide and herbicide** use for land clearance and being mindful about types, volumes and timing of their use to reduce undesired impacts.
4. Implementing **conservation mowing** on select pipeline rights of way to avoid disrupting population dynamics such as breeding, feeding and reproductive behaviors.
5. **Restoring** all disturbed areas to preconstruction conditions by seeding/hydroseeding with native seed mixes.
6. Adhering to **weed management plans** to keep previously disturbed areas free of invasive and non-native weeds.
7. Conducting **post-construction surveys and research** to verify sensitive areas have been appropriately restored.
8. **Monitoring** wetland and waterway crossing sites on pipeline rights of way to confirm they are fully restored and functioning.
9. **Training** affected employees and contractors about biodiversity and maintaining assets in sensitive areas.
10. Using **signage** to indicate sensitive areas.

¹International 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 Standard 6 – Biodiversity Conservation and Sustainable Management of Living Natural Resources.

Nature-Based Solutions

In 2021, we harnessed the power of nature-based solutions — through programs such as Integrated Vegetation Management, Integrated Habitat Management and Urban and Community Forestry — to mitigate the impacts of our operations related to both biodiversity and climate.

INTEGRATED VEGETATION MANAGEMENT (IVM)

focuses on promoting native or desired vegetation communities and quality habitat creation through select herbicide use, conservation mowing, enhanced vegetation seeding and alternative vegetation structure to provide environmental benefits while reducing long-term management costs.

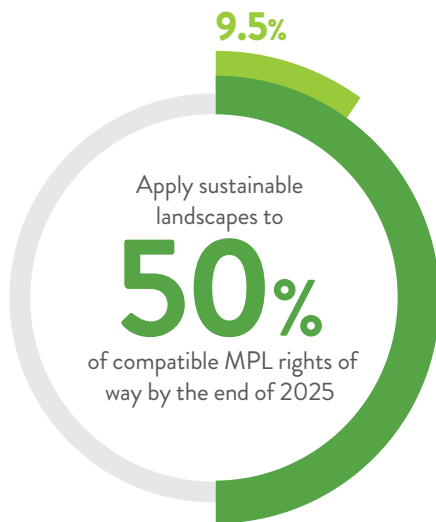
INTEGRATED HABITAT MANAGEMENT (IHM) PLANS

help us improve habitat on the right of way by promoting biodiversity, connecting wildlife habitat corridors to address habitat fragmentation, providing habitat for migratory insects, birds and various wildlife species, while providing nesting habitat for ground-nesting birds.



BIODIVERSITY TARGET

● 2025 Goal ● Progress



Building Sustainable Landscapes

IVM and IHM allow Marathon Pipe Line LLC (MPL) to operate safely while providing wildlife habitat for species, reducing impact to operations and promoting long-term environmental health.

In 2020, MPL launched a trial of IVM and IHM within several pipeline stations and select right of way segments and monitored the outcome to optimize vegetation structure while maintaining regulatory compliance, promoting biodiversity and protecting pipeline integrity and safety. MPL was able to change the landscape by planting a variety of species that provided benefits to pollinators and other wildlife within the areas of operations. MPL plans to expand this highly effective land management program across compatible pipeline rights of way through 2025.

Starting in 2021, MPL began implementing IVM and IHM as part of its established rights-of-way maintenance program. MPL manages approximately 50,000 acres of pipeline rights of way, 40% of which is compatible with IVM and IHM. The remaining acreage is primarily agricultural, residential or commercial land.

MPL INCORPORATES IVM AND IHM INTO RIGHT-OF-WAY MAINTENANCE

- 1. Evaluating existing vegetation and setting site-specific goals** – MPL engages landowners and other stakeholders in the evaluation process to set goals specific to location, land use, habitats, species and other criteria.
- 2. Developing implementation plans** that consider site-specific goals to promote native species, increase pollinator plants, increase carbon sequestration, 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.
- 3. Executing** the plan in conjunction with contractors and partners to achieve desired outcomes.
- 4. Monitoring** the plan to confirm execution is achieving planned objectives.
- 5. Evaluating** success through our partners to verify all criteria have been met as a result of our executed plan.

Partnerships

To help facilitate the evolution of our right-of-way maintenance program, MPL has entered partnerships with:

- **The Ohio State University Sustainability Institute** to conduct research on pipeline rights of way with a focus on ecology, soil carbon and landowner relations.
- **Pheasants Forever** to support site evaluations, plan development and execution, and monitoring outcomes.

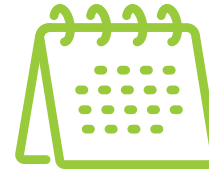


Moving Along the Path to Urban and Community Forestry

Urban and Community Forestry (UCF) provides environmental resilience, equitable canopy cover, habitat for wildlife and many other benefits to the communities that need it most. Our Detroit, Michigan, refinery worked with the Wildlife Habitat Council (WHC) to implement an urban forestry project called Marathon Gardens. It seeks to increase the habitat value and air and water quality in an industrial neighborhood while encouraging community participation.

Throughout the years, MPC employees have collaborated with a variety of community partners, including WHC staff and interns from Grow Detroit's Young Talent and other volunteer groups, to expand and maintain the habitat. We frequently invite residents from the surrounding community to take part in weeding and planting events.

PROJECT TIMELINE



2014: MPC employees assessed existing trees, identifying invasive species and trees in poor condition. These trees were removed and healthy native species were planted alongside an assortment of understory vegetation, wildflowers and native grasses. Non-native wetland vegetation, including invasive phragmites, was also removed from the banks of an on-site oxbow and replaced with native trees and shrubs.

2019: Five years after the initial tree assessment, three acres of forest have been established. Monitoring has shown a 90% survival rate among the planted trees. Deer, coyotes and foxes, turtles and many bird species, including yellow warblers, American goldfinches and red-winged blackbirds, have been identified on-site.

2021: MPC employees conducted another planting, this time in a public park area, to provide residents with more opportunities for outdoor recreation, in line with municipal goals. MPC worked with WHC to select trees for the plantings and prioritized species adept at removing particulate matter from the air, such as sycamore and burr oak. Vacant residences were razed and planted, increasing the amount of vegetative groundcover that could capture and filter stormwater.



IN 2021, WE OWNED AND MAINTAINED 1,200+ ACRES OF WHC-CERTIFIED HABITAT LAND ACROSS 20 CERTIFIED HABITATS

The Wildlife Habitat Council is the only voluntary sustainability standard designed for broad-based biodiversity enhancement and conservation education activities on corporate landholdings. MPC has a nearly 30-year standing relationship with WHC and manages one of the longest-running certified sites in the country, located near our Catlettsburg, Kentucky, refinery. Across operations, we continue to actively participate in habitat certification and carry out engagement programs and partnerships.



Spill Prevention

Our commitment to safely and responsibly operating our assets is critical and fundamental to our business and to protecting our employees, contractors, communities and the environment. We support this commitment through operational practices and technology focused on a goal of zero spills.

SPILL PREVENTION AND DETECTION TECHNOLOGIES



By integrating new technologies and industry innovations into our spill prevention and preparedness strategies, we are better equipped to rigorously assess the integrity of our assets and address releases if they occur. Across MPLX, we continue to make investments to improve pipeline in-line inspection and assessment technology programs. We have implemented a combination of state-of-the-art pipeline inspection technology and advanced analysis techniques for the continued safety of the public and environment.

New technologies adopted:

- Launched quarterly patrols of select pipeline rights of way using **airplanes equipped with specialized sensors** that detect hydrocarbon spills.
- Piloted the use of **operational cameras to detect crude and highly volatile liquid (HVL) spills** at remote pipeline stations. We plan to employ this artificial intelligence technology at 45 additional facilities in 2022.

PIPELINE INTEGRITY MANAGEMENT

We use comprehensive integrity management practices to address risks to pipelines, protecting their integrity and safety. These risks may include third-party damage, corrosion, operator error, equipment failure, geohazards or weather events.

Inspections

In-line Inspection (ILI) - ILI tools travel through pipelines, scanning and measuring a pipe's walls for signs of dents, corrosion or cracking.

Above-Ground Inspections - Pipeline routes are visually inspected with air and/or ground patrols to detect land disturbances and pipeline leaks.

Waterway Crossing Inspections - High-resolution sonar equipment is used to inspect underwater pipelines to determine how erosion and water channel changes may impact the pipe.

Evaluating Threats

Geohazard Management - Our process to monitor, assess, inspect and remediate potential hazards associated with earth movement from both landslides and subsidence in unstable terrain and varied geological conditions.

Risk Modeling - Annual risk modeling is conducted to systematically identify potential hazards to each pipeline, assess their relative significance and develop reduction measures that properly address risks.

Corrosion Control

Protective Coating - Coating that prevents corrosion is applied to the outer surface of pipelines and storage tanks.

Cathodic Protection Systems - Cathodic protection systems are installed along pipeline routes to help prevent external corrosion.

Monitoring and Detection

24/7 Pipeline Monitoring - Our highly trained personnel monitor pipeline pressure, flow and volume 24 hours a day, seven days a week.

Leak Detection Technology - Sensors and meters on pipelines detect drops in pressure or changes in flow rate and alert personnel.

Pipeline Safety Engagement

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

MARINE INTEGRITY MANAGEMENT

Marine environments present a unique set of challenges that require a comprehensive approach to spill prevention.

Inspections

Vessel General Permit Inspections - We inspect the deck areas of vessels and barges daily.

Spill Kit Inspections - Every six months, we visually inspect the contents of every spill kit to verify they are intact and ready to use.

Special Marine Measures

Double-Hulled Barges and Vessels - All of our barges used for river transport of raw materials and refined products are double hulled. All new vessels entering or operating in U.S. waters are also double-hulled and existing vessels are either double hulled or appropriately retrofitted.

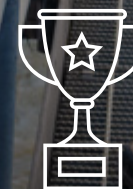
Spill Valves - Most of our barges are equipped with spill valves designed to prevent a catastrophic failure if a barge has become over-pressurized.

Deck Coaming and Drip Pan Containments - Approximately 99% of our barges are equipped with special drip pan containments that exceed regulatory requirements for barges. Drip pan containments capture spills before they enter rivers and other bodies of water.

Training

Barge Transfers - We require our trainees to assist on 10 loads and 10 discharges before conducting barge transfers unassisted as a credentialed mariner, well exceeding regulatory requirements.

MPLX'S LOGISTICS AND
STORAGE ORGANIZATION
RECEIVED THE 2022 U.S. COAST
GUARD'S REAR ADMIRAL
WILLIAM M. BENKERT
MARINE ENVIRONMENTAL
PROTECTION
GOLD AWARD FOR
EXCELLENCE



Emergency Preparedness

Robust preparedness enables us to respond effectively should an emergency event occur. Consistently investing in our response capabilities equips us to mitigate and manage the impact to the environment and people in the event of an incident.

All our operating locations have emergency response teams assigned and site-specific emergency preparedness and response plans tailored to the risks they may encounter. These location-specific plans are subject to regular drills to test proper execution in the event of an actual incident.

Several agencies review and approve our plans, including the U.S. EPA, the U.S. Coast Guard, the Pipeline and Hazardous Materials Safety Administration (PHMSA) and various state agencies.

MPC's Emergency Preparedness Group (EPG) oversees our response program, which includes companywide guidelines and procedures on how to prepare for and respond to emergencies. The group's focus is to continuously strengthen our capability to respond rapidly and appropriately to an emergency incident anywhere we operate. The EPG staff coordinates with business components to share best practices and resources across the company.

For incidents that may require resources beyond those available at a local facility, our EPG maintains a Corporate Emergency Response Team (CERT). It comprises of approximately 250 employees with response expertise and training in the Incident Command System (ICS), a globally recognized organizational structure designed to integrate resources across multiple agencies and organizations, should an emergency event occur.

Tiered Response System:

Tier 1 Incidents are directed by a local response team

Tier 2 Incidents are directed by a district/regional response team

Tier 3 Incidents are larger in scope and complexity and directed by the CERT

Emergency Response Exercise Program

To maintain readiness, our CERT members and other emergency response personnel participate in various exercises and work alongside federal, state, local and tribal responders, such as the U.S. EPA, the U.S. Coast Guard, state environmental protection or wildlife agencies and local emergency responders. MPC and MPLX maintain an emergency response exercise program to test and continually improve our response capabilities:

- Our exercises follow the guidelines of the federal government's National Preparedness for Response Exercise Program (PREP), which meets the requirements of the Oil Pollution Act of 1990 and all federal, state and local requirements.
- Exercises not only help prepare for emergency situations, but are also used to 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 engage federal, state, local and tribal agencies, local fire departments and other first responders and community members who have an interest in the design and development of our plans and exercises.

In 2021, we adjusted our approach for drills and exercises to align with protocols in place for the COVID-19 pandemic and completed all required exercises. We held multiple exercises via a "virtual command post." These exercises incorporated video feeds on field deployment activities using drone videos, FaceTime and smart helmet technology. They also fostered effective collaboration with participants, observers, stakeholders and evaluators while providing responders the opportunity to maintain proficiency in their response planning and execution.



CERT PROVIDES RESOURCES AND SUPPORT FOR RESPONDING TO AND MANAGING EMERGENCIES

- **Emergency Strike Team** is a stand-alone response management team, capable of supplementing, relieving, or taking command of 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** is a group of executive-level advisors prepared to respond to MPC's and MPLX's needs during incidents that pose a significant threat.
- **Business Recovery Team** works to meet MPC's, MPLX's and customers' needs during supply disruptions.
- **Threat Assessment Group** is tasked with determining the potential impact of a threat to MPC or MPLX, informing impacted stakeholders and recommending steps to protect people and assets.
- **International Team** determines the potential impact, recommends response strategies and responds to incidents related to international cargo.

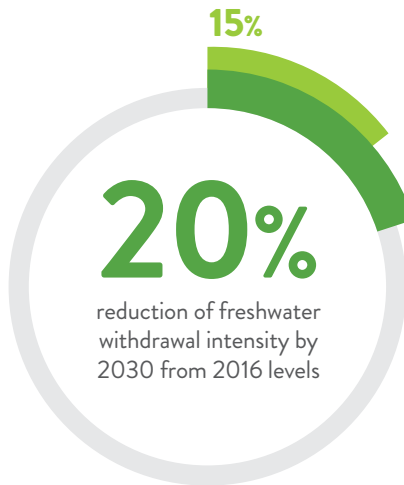


Water

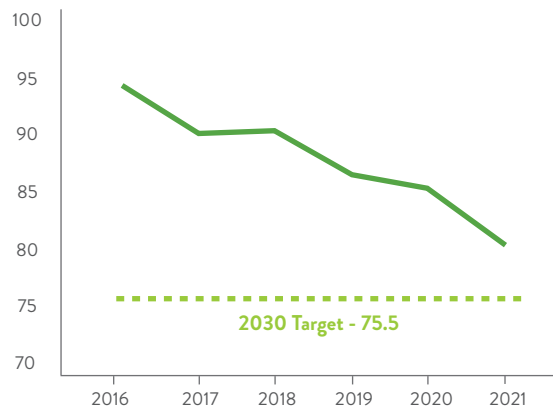
FRESHWATER WITHDRAWAL INTENSITY REDUCTION TARGET



● 2030 Goal ● Progress



Freshwater Withdrawal Intensity
(megaliters/million boe)



We actively monitor and manage water use throughout all operations, continually looking for ways to reduce our use of this shared resource and use it more efficiently. To further our commitment to water conservation, we have voluntarily set a companywide target to reduce freshwater withdrawal intensity 20% by 2030 from 2016 levels.

Water Use in Operations

Water is vital to our refining operations. We source water from rivers, lakes, wells and municipal water plants and also purchase some recycled water for use in refining. In contrast, MPLX gas processing plants are designed to use little or no water in their routine operations. Nearly all plants have hot oil heaters that burn fuel gas to transfer heat into the process units and air-cooling units that circulate hot product through air-cooled radiators, minimizing the need for water.

Managing Wastewater

We operate 11 biological treatment plants and three primary treatment facilities across our refinery locations. Water not reused or consumed in refining activities is collected at these on-site facilities to be treated and recycled back into refining activities or treated and discharged. Water is treated to meet or exceed required state permit or pretreatment permit limits. Our systems are set up for only fully treated water to be discharged to a surface body of water such as a lake, river or bay, so that the quality of these waters is maintained.

WE USE FRESH WATER IN REFINING OPERATIONS TO:

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



Local Water Conservations

Water availability is a concern throughout much of the world, including parts of the U.S. Currently, two of MPC’s operating refineries — El Paso, Texas, and Los Angeles, California—are located in water-stressed regions as defined by the Global Reporting Initiative (GRI) and World Resources Institute assessment tools.

To help conserve water in these regions and across all MPC refineries, our refining teams use aspects of a nine-element guidance framework designed to assess water use, understand and mitigate water risks and identify opportunities to reduce water use.

Each refinery has designated engineers who serve as water coordinators, each has established baselines for assessing their water use, and each maintains robust transparency on how water is used through the use of standardized water monitoring and reporting.

To help mitigate local water risks, we engage community members, government agencies and key water supply organizations. This engagement includes tracking and monitoring the local water supply, planning for future changes in water availability and water pricing. We support water supply stakeholder organizations through membership, board membership and committee participation.

WATER SUPPLY STAKEHOLDER ORGANIZATIONS WE SUPPORT:

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



77% OF FRESHWATER WITHDRAWN FROM NON-WATER-STRESSED AREAS¹

¹ World Resources Institute Aqueduct Water Risk Atlas

Water Results

Through a variety of innovations, we have reduced our freshwater withdrawal intensity by 15% since 2016 and have plans for additional reductions. In 2021, we continued our refinery-wide “Focus on Water” program to further assess water use, understand and mitigate water risks and identify opportunities to reduce water use. As a result, MPC refineries saved a combined 866 million gallons of fresh water. Across the company we continued to further align water management practices to make significant progress toward our 2030 target.

2021 REFINING WATER SAVINGS EXAMPLES:

Catlettsburg refinery

SAVED 161 MILLION GALLONS OF FRESH WATER

by reducing the frequency and durations to clean or backwash filters that treat its boiler feed water without impacting water purity performance.

Detroit refinery

SAVED 59 MILLION GALLONS OF FRESH WATER

by expanding operation of reverse osmosis units, enabling the reuse of ~25% of the refinery's total effluent.

Galveston Bay refinery

SAVED 20.5 MILLION GALLONS OF FRESH WATER

by modifying the regeneration procedure for water-softening equipment, reducing backwash and fast rinse times by 33%.

Garyville refinery

SAVED 13.7 MILLION GALLONS OF FRESH WATER

by increasing the amount of wash water recycled in a distillate hydrotreater, ultimately reducing demand for steam.

Kenai refinery

SAVED 14.5 MILLION GALLONS OF FRESH WATER

by using an air cooler that utilizes air instead of water to cool waste water going into the biological treatment unit.

Los Angeles refinery

SAVED 26.4 MILLION GALLONS OF FRESH WATER

by using an anti-scaling dispersant to reduce cooling tower water use. The dispersant made it possible to increase the number of times water can be cycled back through the towers, reducing the amount of fresh water used.



MPLX WATER SAVINGS

LEVERAGING TECHNOLOGY FOR SUSTAINABLE PERFORMANCE

Marathon Pipe Line LLC (MPL), a wholly owned subsidiary of MPLX, leverages technology through the use of highly sophisticated In-Line Inspection (ILI) tools which eliminate the use of water without sacrificing accuracy. MPL embarked on a multi-year journey with a third-party to drive a step-change improvement in ILI crack detection technology, increasing the probability of finding critical seam defects from 90% to 99%. The tool also detects hook cracks, reducing the need for hydrotests, which were historically used to identify such defects.

Through the use of in-line inspection tools, MPL avoids hydrotesting nearly 400 miles of pipeline per year, realizing an average annual savings of 7 million gallons of water.



Reducing, Reusing and Recycling Waste

Knowing that an important aspect of conserving natural resources is actively managing waste, over the years we have refined our processes to reduce, reuse and recycle waste wherever possible.

Waste Disposal

The volume of waste we generate in any given year varies significantly depending on scheduled maintenance and remediation activities. Amidst these variables, we maintain our careful approach to containing and labeling drums, boxes, bins and roll-off containers of waste and transporting them to permitted waste disposal and recycling facilities.

Our environmental professionals continually look for ways to do this — from using hazardous waste to fuel cement production, to using robots in tank inspections. In these and many other ways, we work to reduce the waste we generate and recycle or beneficially reuse as much of what is left as possible.

PREVENTED 32,000 TONNES OF HAZARDOUS WASTE FROM ENTERING LANDFILLS

Waste Vendor Approval Process

In addition to meeting our Contractor Selection Requirements found on [Page 53](#) of this report, contractors are required to use a structured process to dispose of our waste materials legally and responsibly.

- Our corporate environmental department vets and approves potential nonhazardous and hazardous waste vendors.
- All contracted waste disposal and recycling facilities that we work with must prove compliance with state and federal waste regulations.

PROMOTING A CIRCULAR ECONOMY

We actively search for ways to reduce material use and discover new approaches to recapture waste as a resource to manufacture new materials. Two examples of this are using hazardous waste to fuel cement production and reclaiming catalyst metals.

CEMENT KILN DISPOSAL

We partner with CIRCON Environmental to convert hazardous waste from oil tanks to waste-derived fuels used in cement production.

- 1 When our refinery tanks are cleaned, residual material is removed and placed in CIRCON's proprietary transportation containment, eliminating the need for on-site storage and rental units.
- 2 Valuable materials recovered from waste streams are used to create waste-derived fuels.
- 3 Those fuels are sent via truck to power CIRCON's network of cement kiln partners, displacing coal, leaving behind no residual ash and creating carbon offset benefits.

103,000+

tonnes of waste from our refineries have become an alternative fuel source for the cement industry since 2013, avoiding over 248,000 tonnes of CO₂e emissions and reducing cement manufacturers' coal use by approximately 64,000 tonnes.

~1.4 MILLION

gallons of waste-derived fuel was sent to cement kilns in 2021, keeping nearly 3,900 tonnes of waste out of landfills and avoiding approximately 18,700 tonnes of CO₂e emissions.

CATALYST METALS RECLAMATION

Catalysts are an important part of fuels manufacturing, facilitating a variety of critical chemical processes. We deliver spent catalyst to a recycler that extracts the vanadium and other valuable metals to produce ferrovanadium and a ferronickel molybdenum alloy, which are then sold to the steel industry.

5,500+

tonnes of spent catalyst sent to recycler for catalyst metal reclamation.

47,000+

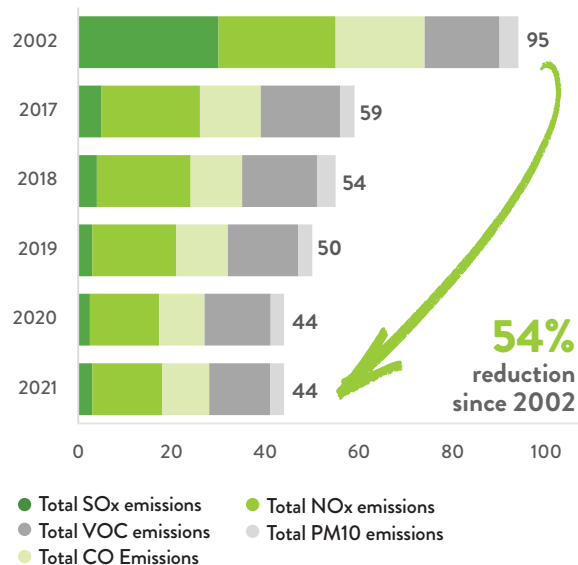
tonnes of CO₂e emissions avoided when compared to mining for virgin ore.

Air Quality and Emissions

Air quality is important to our business, our stakeholders and the local communities where we operate. We are committed to continuously improving our programs and strategies that improve air quality and implementing them throughout our operations. From 2002 through 2021, this approach helped us reduce our criteria pollutants by 54%, while the footprint of our refining and natural gas assets expanded. And we're committed to maintaining open and ongoing dialogue with the people who live near our operations on a wide range of topics that are important to them, including air quality.

FROM 2002 THROUGH 2021, WE HAVE ACHIEVED A 54% REDUCTION IN CRITERIA POLLUTANT EMISSIONS WHILE THE FOOTPRINT OF OUR REFINING AND NATURAL GAS ASSETS EXPANDED.

Companywide Criteria Pollutant Emissions
(thousand tonnes)



Reducing Gas Flaring

Avoiding flaring is one of our key priorities. Our refineries implement flare reduction programs that help minimize flaring while recovering gases and enabling efficient combustion. In addition, flare gas recovery systems return gas to the refining process instead of flaring, reducing criteria pollutant emissions and GHG emissions.

Minimizing Fugitive Emissions

We use acoustic imaging cameras, also known as FLUKE® Imagers, to quickly and accurately locate air, gas and vacuum leaks in compressed air systems. These devices use extremely sensitive microphones to detect sounds both in the human hearing range and the ultrasonic range. Initially used to identify air leaks at our compressor stations and gas plants, they are now being used across our refineries and natural gas gathering and processing assets, where they are used to confirm that leak repairs are effective.

Transparent Community Air Monitoring

We've implemented detailed, near real-time, public-facing, air monitoring systems for our Detroit and Los Angeles refineries. These systems, which can be found on the refineries' websites, provide easy-to-read, color-coded classifications that provide a quick glance of overall air quality, emission levels, wind direction, wind speed and temperature. Members of the community can also opt in to an alert system that can notify them when air quality reaches a certain level.

AN EXAMPLE OF CONTINUAL IMPROVEMENT AT OUR LOS ANGELES REFINERY

In 2021, we decreased carbon monoxide emissions at our Los Angeles refinery by 23% due to operational changes within a fluid catalytic cracking (FCC) unit.

When it was realized that the FCC unit was struggling to operate with reduced carbon monoxide (CO) emissions rates, different CO catalyst promoters were evaluated and tested to lower both CO and NO_x emissions. The most effective promoter was then utilized in conjunction with installation of a new catalyst loader. This new loader automatically loads both fresh catalyst and the CO catalyst promoter into the unit, instead of manual loading.

Not only has this new loader been more reliable, but its integrated notification feature alerts operators to any performance issues.



INNOVATE FOR THE FUTURE

Investing in the energy evolution to lower carbon intensity and capture value

RENEWABLES AND EMERGING TECHNOLOGIES

At MPC and MPLX, we strive to be market leaders in the production and delivery of renewable fuels, seek ways to expand the use of renewable energy in our operations and deploy emerging technologies that reduce environmental impact while enhancing business performance.

MPC is one of the largest marketers of renewable fuels in the U.S. In 2021, we delivered approximately 2.4 billion gallons of renewable fuels to consumers, including over 400 million gallons that we produced. This 2.4 billion gallon volume avoided nearly 10 million tonnes of customers' CO₂ transportation emissions per year in 2021.

We are making significant capital investments that support a lower-carbon future. For example, we intend to direct over 50% of multiyear growth capital toward increasing our production of renewable fuels and natural gas, thereby lowering the carbon intensity of our products.

**DELIVERED APPROXIMATELY
2.4 BILLION GALLONS OF
RENEWABLE FUELS TO
CONSUMERS IN 2021**



Martinez Renewable Fuels Project

Substantial strides were made toward converting our Martinez, California, refinery into a renewable fuels facility.

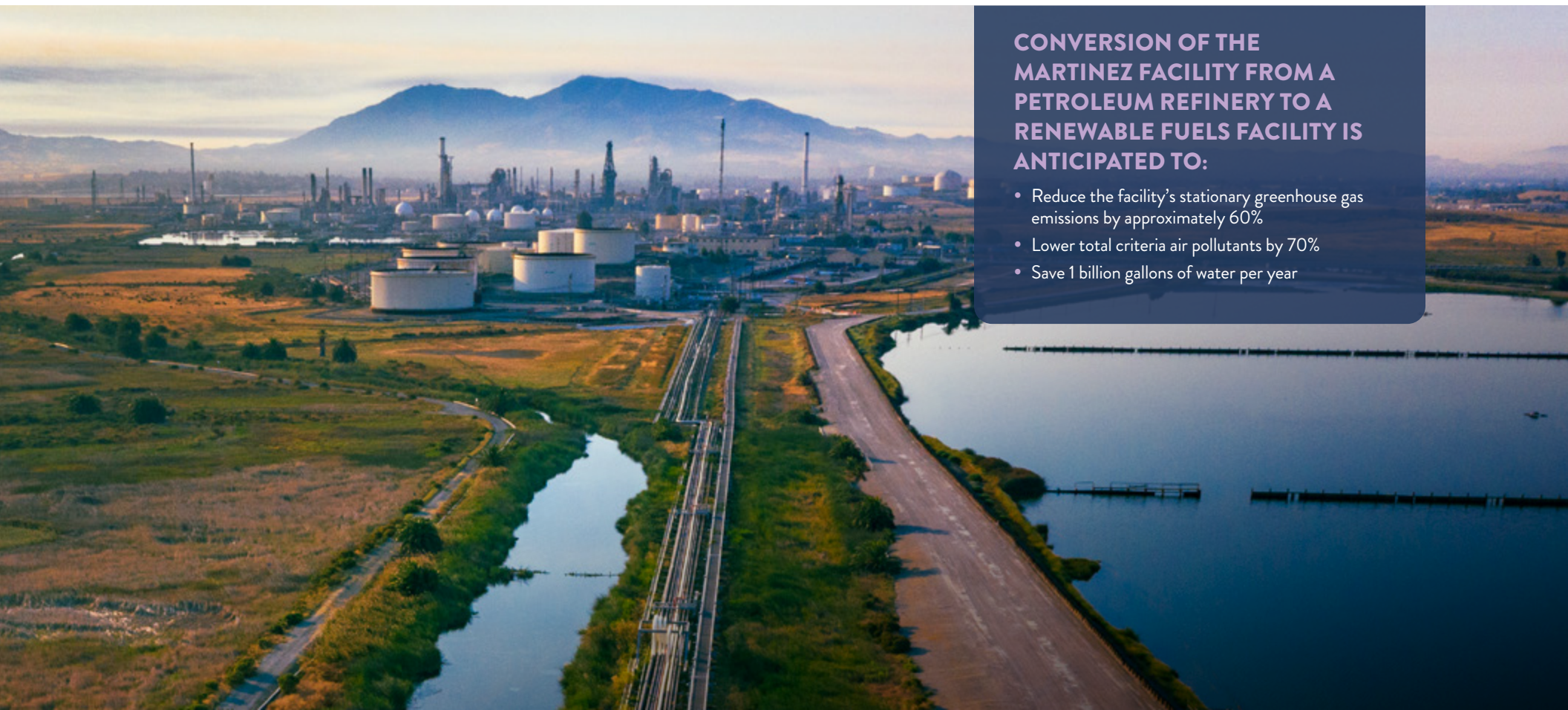
In May 2022, the Contra Costa County Board of Supervisors approved the final Environmental Impact Report and land use permit for the project, concluding the required environmental review process under the California Environmental Quality Act.

When complete, the Martinez facility will be larger than any renewable diesel production facility operating in the U.S. today, producing nearly 48,000 bpd.

In March 2022, we announced our intent to form a joint venture with Neste for the Martinez Renewable Fuels facility. MPC and Neste will leverage their complementary core competencies in the joint venture. MPC brings experience in renewable diesel facility conversion, large capital project execution and operating expertise. Neste brings knowledge in sustainable feedstock sourcing and in renewable liquid fuels production.

The agreement reflects both partners' commitment to obtain low carbon intensity feedstocks to achieve the project objectives of providing fuels that meet the demand driven by the California Low Carbon Fuel Standard (LCFS).

The Martinez facility is currently targeted to begin production in late 2022, with full production and pretreatment capabilities to come online in 2023. The facility is expected to be capable of producing 730 million gallons per year by the end of 2023. Estimated total project costs for Martinez are approximately \$1.2 billion.



CONVERSION OF THE MARTINEZ FACILITY FROM A PETROLEUM REFINERY TO A RENEWABLE FUELS FACILITY IS ANTICIPATED TO:

- Reduce the facility's stationary greenhouse gas emissions by approximately 60%
- Lower total criteria air pollutants by 70%
- Save 1 billion gallons of water per year

A Range of Renewable Fuels Solutions

Our current portfolio includes a diverse mix of renewable fuels.



RENEWABLE DIESEL

Our **Dickinson, North Dakota, Renewable Diesel facility** started producing renewable diesel in November 2020 and reached full capacity in the second quarter of 2021. As the second largest facility of its kind in the U.S., it can produce approximately 184 million gallons of renewable diesel per year.

The facility converts biogenic oils — distillers corn oil, soybean oil and tallow — and used cooking oil into renewable diesel, which can be used in existing infrastructure and engines. The renewable diesel produced today has a carbon intensity that's over 50% lower than diesel derived from petroleum, and we continue to explore projects that have the potential to produce net-zero fuel at the facility, such as renewable electricity, carbon capture, utilization and sequestration, and regenerative agriculture.

BIOFUELS PRETREATMENT

Our **Beatrice, Nebraska, pretreatment facility**, which we acquired and repurposed in 2020, began operations, processing advantaged feedstock for transport to our Dickinson Renewable Diesel facility. The pretreatment facility uses Midwestern agricultural and waste feedstocks such as distillers corn oil, soybean oil and tallow.

Additional feedstock for Dickinson will come from our **Cincinnati, Ohio, pretreatment facility**, which recently began operating after being converted from a biodiesel plant (pictured on the right).



BIOCRUDE

We are working with **Fulcrum BioEnergy** to process approximately 800 bpd of biocrude derived from municipal solid waste.



ETHANOL

Through our joint venture with **The Andersons, Inc.**, we have the capacity to produce approximately 475 million gallons of ethanol per year. We hold an ownership interest in ethanol production facilities in Albion, Michigan, Logansport, Indiana, Greenville, Ohio, and Denison, Iowa.

FEEDSTOCK PARTNERSHIP

In 2021, we closed on a joint venture with **ADM** to produce soybean oil to supply the rapidly growing demand for renewable diesel fuel. The joint venture, **Green Bison Soy Processing, LLC**, will own and operate a soybean processing complex in Spiritwood, North Dakota, with ADM owning 75% of the joint venture and MPC owning 25%.

Expected to be complete in 2023, the \$350 million **Spiritwood facility** will source and process local soybeans and supply the resulting soybean oil exclusively to MPC. The Spiritwood complex is expected to produce approximately 600 million pounds of refined soybean oil annually — enough feedstock for approximately 75 million gallons of renewable diesel per year.



Moving Toward Commercialization

Virent, a wholly owned subsidiary of MPC, is working to commercialize its BioForming® Platform for converting bio-based feedstocks into low-carbon renewable fuels and chemicals. It has the potential to make a broad impact on the renewables industry by developing pathways for producing both renewable fuels and chemicals from the carbohydrate portion of plants to achieve lower-carbon products.

Feasibility Assessment

Virent and MPC recently initiated a commercial-scale plant feasibility assessment. Plans for feasibility include more detailed engineering work and exploring commercial options for off-take, investment, financing and potential partnerships. The first plant focus is currently on gasoline and sustainable aviation fuel (SAF).

At its facility in Madison, Wisconsin, Virent's demonstration plant has accrued over 30,000 hours of total operating time, generating process engineering data that will allow for direct scale-up to a first commercial plant.

New Market Opportunities

Virent is working to create new market opportunities by enabling renewable gasoline, which can reduce the carbon intensity of gasoline. Virent's Bioform® gasoline is currently registered with the EPA for use as a gasoline blendstock up to 45% and has the potential to achieve a lower carbon footprint for the gasoline market. Life cycle analysis studies indicate a greater than 50% carbon intensity reduction, with options to achieve net-zero or better. When used in a hybrid vehicle, BioForm gasoline can provide a carbon intensity comparable to electric vehicles.

Virent has created options for renewable chemicals by expanding the market for 100% bio-based plastics, fibers and films. Most recently, Coca-Cola's 100% plant-based bottle prototype was developed using Virent's bio-based paraxylene (BioForm® PX), which is made from naturally occurring sugars.

Through this future-facing packaging solution, Virent has the potential to contribute to the industry's goal to achieve 100% plant-based content, while also providing opportunities for bio-based polyester fibers and other bio-based chemical feedstocks.

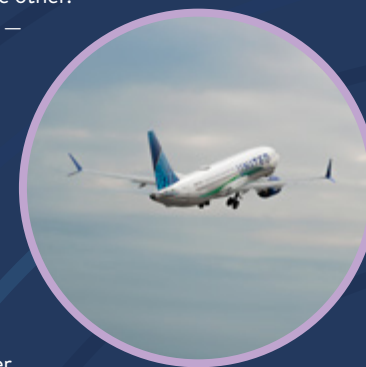
MAKING AVIATION HISTORY

VIRENT'S BIO-BASED FUEL USED IN HISTORIC COMMERCIAL PASSENGER FLIGHT USING 100% SUSTAINABLE AVIATION FUEL

Virent contributed to an aviation industry first in December 2021, as United Airlines flew an aircraft full of passengers using 100% SAF in one engine and petroleum-based jet fuel in the other. Virent used its BioForm® process to produce synthesized aromatic kerosene (SAK) — a critical component that made the 100% SAF possible.

Virent's proprietary technology converts widely available, plant-based sugars into fuels that are 100% renewable and 100% compatible with today's aviation fleet. For this flight, Virent used corn sugar to manufacture the fuel component that made petroleum blending unnecessary and demonstrated that we can power sustainable aviation without modifying today's modern airline engines or the infrastructure that serves the airline industry.

Because Virent's SAK is made from plant-based feedstocks, the carbon impact on a life cycle basis is less than that of petroleum-based fuels. Virent is targeting greater than 50% reduction in greenhouse gas emissions for SAK from a commercial project, with the potential to achieve net-zero emissions using options such as renewable electricity, renewable natural gas and carbon capture and sequestration. Virent has also developed data from engine testing that shows an SAF blend using its SAK is cleaner burning and has lower particulate matter emissions than conventional jet fuels.



Carbon Capture, Utilization and Sequestration

MPC and MPLX support the continued development and use of carbon capture, utilization and sequestration (CCUS) technology as a strategy to reduce emissions of CO₂ and reduce the carbon intensity of the critical products we supply.¹

CCUS Alliances

The United Nations Intergovernmental Panel on Climate Change and the International Energy Agency agree that CCUS has a critical role in achieving global greenhouse gas reduction goals. Additionally, CCUS is one of the best options to enable “hard-to-abate” sectors — such as refining, steel and cement — to decarbonize.

CCUS technology has been used in limited applications for decades. To further the goal of large-scale CCUS deployment, alliances of private companies, federal, state and local governments, policy institutions, academia, national laboratories, and others are bringing their resources and expertise to bear. We see these alliances as a way for key stakeholders to leverage each region’s resources and advantages to help make progress toward reducing greenhouse gas emissions.

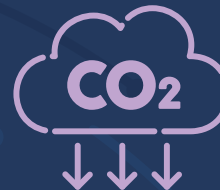
MPC and MPLX are actively involved in three publicly announced alliances — Houston CCS, Appalachian Energy Future and the Greater St. Louis and Illinois Regional Clean Energy Hydrogen Hub (St. Louis-Illinois Hub). At present, the Houston alliance is the largest, with 14 companies evaluating how to use safe, proven CCUS technology at Houston-area facilities. The alliance has ambitious goals for the greater Houston area.

In addition to CCUS, Appalachian Energy Future and the St. Louis-Illinois Hub are also exploring hydrogen energy production and utilization. The hydrogen energy work of these two alliances and other coalitions is a direct response to the 2021 Infrastructure Investment and Jobs Act, which provides initial financial support to several regional hydrogen hubs.

THE PRIMARY BENEFIT OF OUR WORK WITH CCUS ALLIANCES WILL BE ACCELERATING BROAD-BASED EFFORTS TO REDUCE GREENHOUSE GAS EMISSIONS.

Near-Term Efforts

- Increase the understanding and importance of CCUS
- Progress enabling legislation and regulations that are foundational for the development of large-scale CCUS projects



~478,000
TONNES OF CO₂
CAPTURED FROM MPC AND MPLX OPERATIONS AND JOINT VENTURES IN 2021 FOR USE IN



TONNES CO₂ CAPTURED

CCUS SITE

Los Angeles, California, refinery	~150,000
Catcher Ranch, Oklahoma, gas plant	~42,000
Albion, Michigan, ethanol plant	~105,000
Denison, Iowa, ethanol plant	~80,000
Greenville, Ohio, ethanol plant	~101,000

Total CO₂ captured ~478,000

¹ Intergovernmental Panel on Climate Change, Special Report: Global Warming of 1.5°C – Strengthening and implementing the global response (April 2022), <https://www.ipcc.ch/sr15/>; International Energy Agency, Special Report on Carbon Capture Utilization and Storage – CCUS in clean energy transitions (September 2020), available at [IEA website](#).

A photograph of three employees from Marathon Petroleum standing in an industrial facility. They are wearing hard hats, safety glasses, and work clothes. The woman on the left has 'AMANDA FORKIE' on her name tag. The man in the center has 'EAN RAINEY' on his name tag. The woman on the right has a yellow headlamp on her hard hat. The background shows complex piping and structures of an industrial plant.

EMBED SUSTAINABILITY

Embracing sustainability in decision-making, in how we engage our people and in how we create value with stakeholders

- Engaged and Energized Workforce → 37
- Embracing a Culture of Safety → 49
- Engaging Our Stakeholders and Communities → 55
- Advancing Supply Chain Sustainability → 62
- Accountable and Transparent Governance → 64

ENGAGED AND ENERGIZED WORKFORCE

We believe our people are our greatest asset and strength.

We are continuously building on our strong culture, striving to create an environment where everyone can be their best and bring their full and authentic selves to the workplace. We are collaborating to foster an inclusive environment, empowering our people and prioritizing accountability, promoting a culture of safety, providing broad-based professional development, recognizing and rewarding accomplishments and offering benefits that support the well-being of our employees and their families — all to enable fulfilling careers and our collective success — because we know we are **BETTER TOGETHER.**

THE HUMAN RIGHTS CAMPAIGN (HRC) HAS RANKED MPC A "BEST PLACE TO WORK" FOR LGBTQ+ EQUALITY FOR THE THIRD CONSECUTIVE YEAR.



FOR 2022, MPC SCORED 100% ON THE HRC'S CORPORATE EQUALITY INDEX SURVEY.

CORE VALUES

Our core values guide the way we treat each other and all our stakeholders. We believe how we do our work is just as important as what we do.

- Safety and Environmental Stewardship
- Integrity
- Respect
- Inclusion
- Collaboration



Diversity, Equity and Inclusion

Our Approach to Diversity, Equity and Inclusion

We believe that fostering a diverse, equitable and inclusive workplace increases success for individuals, teams and the company. We strive to create a collaborative and supportive environment where all employees can build on their strengths and maximize their talents and abilities. This enables us to unlock the full potential of our teams — embracing the power of our differences while demonstrating each day that we are better together. We aspire for everyone to bring their unique selves to work, for every talent to be realized and every voice to be heard.

Our diversity, equity and inclusion (DE&I) program is guided by a dedicated DE&I team led by our Vice President, Talent Acquisition and Diversity, Equity & Inclusion and supported by leadership companywide. Our program is based on our four-pillar DE&I strategy of building awareness, increasing representation, ensuring success and measurement and accountability.

To execute our strategy, our near-term action plans are focused on **building a diverse workforce, creating a more inclusive culture** and **contributing to our thriving communities**.

Increasing Representation

To maintain a competitive workforce and reflect the diversity of our communities, we added a diversity, equity and inclusion metric tied to compensation – the first U.S. independent refiner to do so.

Our goal for 2021 was for external hires to represent at least 30% BIPOC and 30% women. We exceeded the BIPOC goal with 32% representation, but fell short of our women goal with only 23% representation. We continue to improve our existing programs and evaluate new programs that will aid in the retention and recruitment of women.

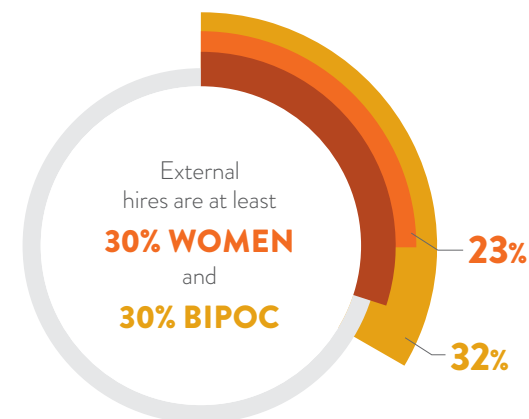
We made solid progress hiring women and BIPOC candidates for senior management roles in 2021, including our Vice President of Talent Acquisition and DE&I, Vice President of Internal Audit, Vice President, Chief Information Security Officer, Vice President of IT – Commercial, Assistant Controller of MPLX and the General Managers at our St. Paul Park, Minnesota, and Canton, Ohio, refineries.

For 2022, we have set a goal for external hires to represent at least 26% women and 30% BIPOC.

2021 DIVERSITY, EQUITY AND INCLUSION GOAL



● Goal ● Women Result ● BIPOC Result



BUILD A DIVERSE WORKFORCE

Streamlining our approach to managing diverse candidate slates

Establishing new relationships with diversity recruiting partners

CREATE A MORE INCLUSIVE CULTURE

Increasing support to employee networks to capture new and emerging opportunities

Enhancing our leadership model with an emphasis on inclusive leadership

CONTRIBUTE TO OUR THRIVING COMMUNITIES

Identifying and communicating goals for diverse supplier commitments

Further aligning our community investments with our DE&I commitments

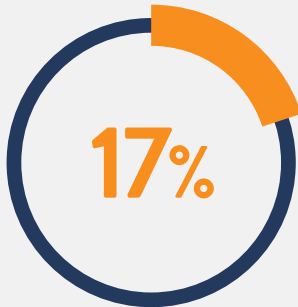
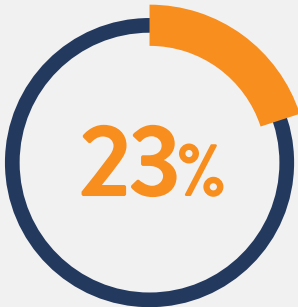
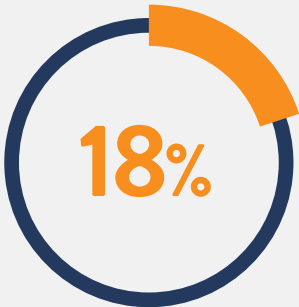
2021 Workforce Metrics

Workforce
17,670

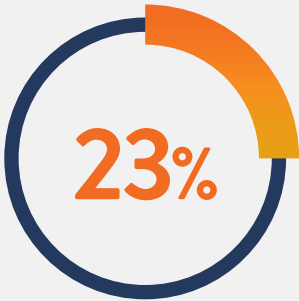
Senior Management
148

All Supervisors
2,254

Women Representation



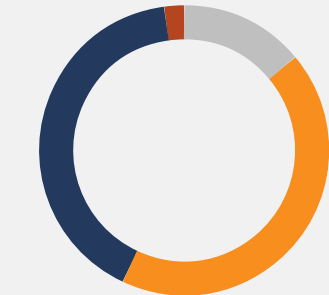
Racial and Ethnic Diversity Representation



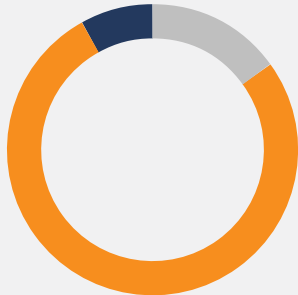
Age Representation

KEY:

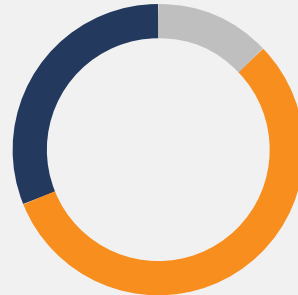
- Baby Boomer - 1946-1964
- Generation X - 1965-1980
- Millennial - 1981-1996
- Generation Z - 1997-2003



● Baby Boomer 14% ● Millennial 41%
 ● Generation X 43% ● Generation Z 2%



● Baby Boomer 15% ● Millennial 8%
 ● Generation X 77% ● Generation Z 0%



● Baby Boomer 13% ● Millennial 31%
 ● Generation X 56% ● Generation Z 0%

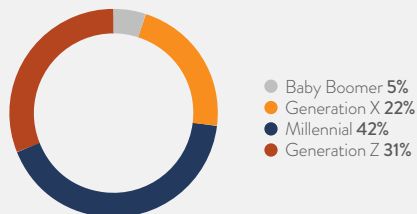
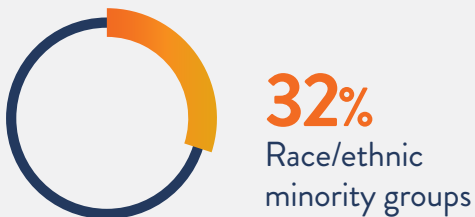
Building a Diverse Workforce

Executing our strategic vision requires that we attract and retain the best talent by nurturing new employees and providing opportunities for long-term engagement and career advancement. Our Talent Acquisition team consists of three segments: Executive Recruiting, Experienced Recruiting and Campus Recruiting. The specialization within each group allows us to specifically address MPC's broad range of current and future talent needs, as well as devote time and attention to candidates during the hiring process.

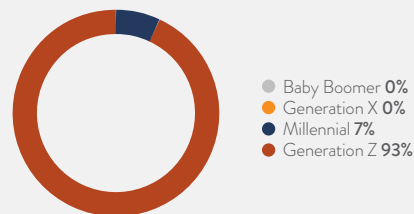
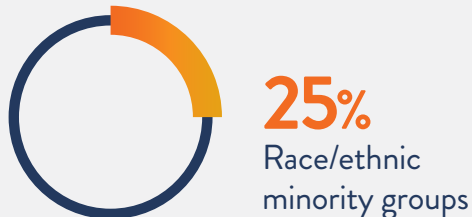
We value diverse perspectives in the workforce, and accordingly, we seek candidates with a variety of backgrounds and experience. Our primary source of full-time, entry-level new hires is our intern and co-op program. Through this program, we offer college students who have completed their freshman year the opportunity to gain hands-on experience in the areas of engineering, IT, accounting, finance, marketing, supply chain and other relevant disciplines.

MPC has provided a three-year grant to the United Service Organizations' (USO) Pathfinder Transitions program to support the nonprofit's cornerstone efforts to provide military servicemembers with career resources and opportunities to successfully transition back to civilian life. During the four recruiting sessions we hosted in 2021, we included MPC veteran panels to allow attendees to interact with MPC team members who had been through the transition process.

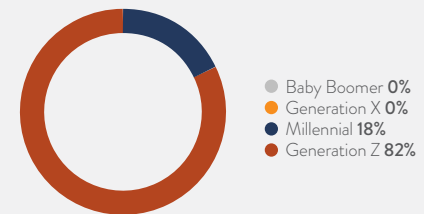
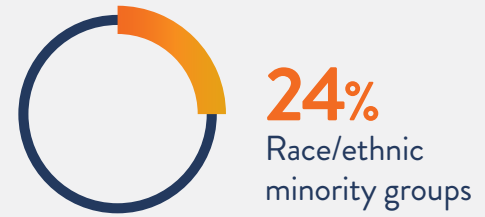
2021 New Hires
1,366



2021 Intern and Co-op Hires
296



2021 Intern to Employee Conversions
51



Campus Partnerships

University partnerships are an important component of MPC's campus recruiting strategy, creating additional opportunities for the company to engage with premier talent and more effectively build our early career pipeline. One of the ways MPC demonstrates its commitment to science, technology, engineering and mathematics education is by supporting Bridge Programs at partner universities. These programs:

- Prepare students from underrepresented groups to make a successful transition from high school to a university
- Give students the opportunity to adjust to the academic, personal and social challenges they may encounter
- Promote a structured environment conducive to building the fundamental skills to successfully complete a baccalaureate degree

Some of our university partners were able to continue leveraging a virtual platform. In 2021, these programs included:

- The Ohio State University Pre First-Year Academic and Career Engagement (PREFACE)
- The University of Cincinnati Summer Bridge Program

As we work to increase representation of women and BIPOC candidates, we continue to seek new places to find diverse talent. We have been partnering with INROADS and with Hispanic serving institutions, including Texas A&M University, and historically black colleges and universities including North Carolina A&T State University.

2021 HIGHLIGHTS

- Hosted a tour of our Cincinnati, Ohio, biofuels pretreatment facility for students from the University of Cincinnati College of Engineering and Applied Science
- Hosted an information session and MPC panel discussion at The Ohio State University Minority Engineering Program Seminar

MPC PARTNERS WITH OHIO STATE'S SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES

MPC donated \$250,000 to The Ohio State University School of Environment and Natural Resources (SENR) to advance terrestrial wildlife ecology research, student learning and sustainability and diversity and inclusion scholarships.

- **\$165,000** for research in terrestrial wildlife ecology
- **\$60,000** to create the school's Diversity and Inclusion Scholarship Fund
- **\$25,000** for the Students Understanding Sustainability and Taking Action to Improve Nature and Society (SUSTAINS) Learning Community

The gift further enhances Ohio State's efforts to support students from a diversity of backgrounds interested in pursuing careers in the environmental and natural resource fields.

The donation supports research to understand the benefits of integrated vegetation management on utility rights of way with a focus on ecology, soil carbon and landowner relations.

As part of the new partnership, one Ohio State student was selected for an internship opportunity within Marathon Pipe Line's rights of way vegetation management team in 2022. Additionally, one student from Ohio State's SENR was chosen for an internship within MPC's ESG and Stakeholder Engagement team.



Creating an Inclusive Culture

Employee Network Groups

Having a culture where everyone feels valued and confident to be themselves is essential for a workforce to thrive. When we're able to advance this kind of inclusive culture, we're able to attract the most highly skilled and diverse employee base. Our employee networks are fundamental to achieving this goal.

Our employee network groups connect employees based on similar interests or diversity aspects. Our employee network groups use an ally or supporter model so no one is excluded. Any employee who wants to join a network can — something we strongly encourage.

These groups focus on six populations—Asian, Black, Hispanic, LGBTQ+, Veterans and Women. They are led by employees with active involvement from executive leadership sponsors. These networks connect colleagues from across the company and provide opportunities for personal and professional development, networking and community involvement.

From celebrating awareness months to planning events and hosting open forums to talk about the challenges within a particular affinity, the groups continue to help create a welcoming and inclusive environment for all employees.

Our senior executives recognize the strengths of a diverse workforce and inclusive workplace and many are engaged as employee network sponsors.

ALMOST 3,500 EMPLOYEES BELONG TO OUR 63 EMPLOYEE NETWORK CHAPTERS ACROSS 13 STATES.

ASIAN

The Asian Employee Network (HOPE) promotes an environment that values diversity and an atmosphere of Harmony, Opportunity, Purpose and Encouragement (HOPE).

The group plans employee events and activities year-round to celebrate and educate our workforce on Asian American and Pacific Islander (AAPI) culture and experiences. During AAPI Heritage Month, HOPE, hosted an educational session to teach employees how recognizing individual emotions and actions and those of others can enable employees to work more effectively with individuals across various cultures. During another session, AAPI employees shared stories about their cultures, histories, traditions and the challenges they face in their communities and workplace.



BLACK

The Black Employee Network (PROMISE) works to create an environment at MPC and its surrounding communities, where Black employees and people of color feel welcome, valued and equal. In 2021, PROMISE chapters from across the company came together to celebrate Juneteenth using the time to reflect on African American achievement and resilience and advocate for equality and inclusion. Employees supported community Juneteenth events across the country, volunteered and made donations to organizations supporting Black communities and participated in a virtual tour of the Slavery and Freedom exhibition at the Smithsonian National Museum of African American History & Culture.



HISPANIC

The Hispanic Employee Network (FAMILIA) strives to create a more inclusive workplace through engagement, awareness and advocacy and provide support for Hispanic employees throughout the company. In an effort to build awareness and provide educational opportunities during Hispanic Heritage Month, FAMILIA celebrated by holding panel discussions, embracing Hispanic culture, participating in community volunteer opportunities and conveying the importance of allyship. FAMILIA also hosted a Cultural Day where they shared about the different countries that represent our Hispanic employees, including traditional music and food of the countries. Bringing Hispanic culture to work is important to our members and allies.



Employee Training

While our employee network groups offer many training opportunities on various DE&I topics throughout the year, Diversity Awareness and Skills is a required course for all new employees to complete within 18 months of hire. Employees participate in a course designed to increase awareness of the challenges of DE&I, the impact on our business and to provide skills to continue building Marathon's high-performance team culture.

Facilitated by our DE&I team, engaging and interactive workshops are offered to deepen cultural awareness to better understand coworkers and appreciate one another's diverse backgrounds and perspectives. From unconscious bias training and dialogue on race, to generational differences and gender, these workshops provide an open forum for employees to have respectful dialogue on challenging, important topics.

In partnership with NeuroLeadership Institute, the DE&I team has redeveloped MPC's unconscious bias program, piloted the program with a group of leaders and plans to continue rolling out the training throughout this year.



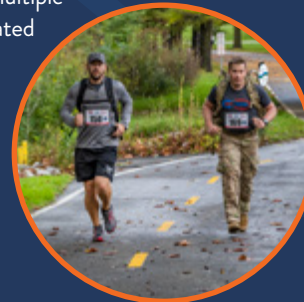
LGBTQ+

The LGBTQ+ Employee Network (PRIDE) works to promote an inclusive environment and provide resources to support our lesbian, gay, bisexual, transgender and queer (LGBTQ+) employees and communities. In 2021, PRIDE planned several events to build awareness, such as an employee panel focused on the importance of LGBTQ+ allies during Pride Month, flying the Pride flag at several locations across the company and a Spirit Day celebration encouraging employees to wear purple to stand up against LGBTQ+ bullying. During the year, the group promoted a training "Investing in Allyship" focused on important LGBTQ+ terminology, the history of LGBTQ+ rights and the economic impact of inclusion.



VETERANS

Our Veterans Employee Network (HONOR) promotes inclusion internally and externally to attract, engage and retain prospective veteran employees through employee and community events and activities year-round to celebrate and educate our workforce on the veteran community. HONOR partnered with MPC's Well ALL Ways team in Findlay, Ohio, to host the first Spirit of Freedom 5K race, which raised more than \$25,000 for K9s For Warriors, the nation's largest provider of service dogs to military veterans suffering from post-traumatic stress, traumatic brain injury and/or military trauma. More than 100 employees, community members, partners and sponsors participated in the in-person race and nearly 130 employees across multiple MPC locations participated in virtual races.



WOMEN'S

The Women's Employee Network (ARISE) strives to attract, retain, inspire, support and empower women at MPC. The network plans activities and events year-round to support gender equality in our workplace and communities. ARISE launched the ARISE Connections Networking Program, open to all ARISE members and allies from across the company. This program allows participants to foster intercompany relationships and connect with others as peers. ARISE Connections provides peer-to-peer networking through either partnership matching or self-connection and small group micro-mentoring sessions. In its initial kickoff, the program has nearly 200 participants across 19 states.



Investing in Our Employees

Compensation and Benefits

Compensation and benefits are some of the most direct ways to acknowledge and encourage quality performance and meaningful contributions from our employees.

To confirm we are offering competitive pay packages in our recruitment and retention efforts, we annually benchmark compensation, including base salaries, bonus levels and long-term incentive targets. Our annual cash bonus program is a critical component of our compensation, as it provides individual rewards for MPC’s achievement against preset financial and ESG goals, encouraging a sense of employee ownership. Employees in our executive-level pay grades, as well as senior leaders and most mid-level leaders, are eligible to receive long-term incentive awards to align their compensation to the interests of shareholders. In 2021, we began piloting workplace flexibility to allow eligible roles to work remotely one day per week. We will continue to evaluate this practice and evolve as we learn from the experience.

<p>HEALTH BENEFITS</p> <p>Medical, dental, vision, wellness benefits</p>	<p>RETIREMENT BENEFITS</p> <p>Pension, savings</p>	<p>EDUCATIONAL REIMBURSEMENT</p> <p>Financial assistance of approved degree programs, certifications and licensing</p>	<p>GIVING AND VOLUNTEERISM</p> <p>Company match for qualified employee giving and volunteer hours</p>
<p>PAID PARENTAL LEAVE</p> <p>Eight weeks for birthing parent, four weeks for nonbirthing parent</p>	<p>FAMILY LEAVE</p> <p>Unpaid time off for certain family and medical reasons</p>	<p>RELOCATION</p> <p>Relocation assistance to help make the transition as easy as possible</p>	<p>EMPLOYEE ASSISTANCE PROGRAM</p> <p>Free counseling, identity protection and more</p>
<p>SCHOLARS PROGRAM</p> <p>Competitive college scholarships for children of employees</p>	<p>COMPETITIVE BENEFIT PROGRAMS</p> <p>Annual cash bonus program</p>	<p>VACATION</p> <p>Up to six weeks paid time off</p>	<p>ADOPTION ASSISTANCE</p> <p>Helping pay for adoptions</p>

TAKING CARE OF OUR EMPLOYEES

When Hurricane Ida hit Louisiana, MPC provided fuel, generators, equipment and tools and placed 23 employees in temporary housing, stabilized 33 homes and provided \$4,500,000 in interest-free loans to affected employees.

“Our local service stations were not receiving fuel for several days after the storm. When they did receive fuel, you would have to wait in line for hours. MPC helped me with the option to purchase gasoline for our generators and vehicles. MPC also helped with the option for the interest-free loans. By providing these services, MPC was a sign of hope during stressful times.”

JANICE ZERINGUE
Analytical Processor



Health and Wellness

We strive to keep our employees healthy, both physically and mentally. That's why we operate 19 clinics across our locations where medical professionals provide on-site access to health services. We also provide a 24/7/365 nurse hotline, on-site amenities such as fitness and wellness resources and virtual and on-site educational sessions on a variety of health topics — all delivered by a team of dedicated health and wellness professionals.

Helping Our Employees Be Well ALL Ways

In 2021, we introduced the Well ALL Ways well-being model to emphasize to employees the importance of taking care of themselves. Well ALL Ways focuses on preventive health and comes with a financial incentive: Eligible employees who complete an online health assessment and a preventive physical exam with an approved health care provider can earn a \$400 payroll stipend, with an additional \$200 for a qualified spouse or domestic partner.

There are five key aspects to the Well ALL Ways Program:

- **Occupational** - how we foster safe and engaging work
- **Financial** - how we build toward financial stability
- **Social** - how we connect with others
- **Physical** - how we fuel our bodies
- **Mental** - how we respond to life



~9,000 EMPLOYEES AND SPOUSES TOOK ONLINE HEALTH ASSESSMENTS AND RECEIVED PREVENTIVE PHYSICALS



CARING FOR OUR EMPLOYEES' MENTAL HEALTH

In 2021, we made mental well-being a priority of our wellness programing. According to the CDC, mental health is vitally important because it affects how we think, feel and act. It helps determine how we handle stress, relate to others and make healthy choices.

And mental health is important at every stage of life, from childhood and adolescence through adulthood. In the workplace, mental health contributes to safety and productivity. Our 2021 initiatives included:

- **Preventing Negative Thought Traps** - Over 400 employees attended this webinar from our Employee Assistance Program (EAP) and also learned about EAP benefits available to them.
- **Let's TALK Workshop** - Over 675 employees attended more than 20 workshops on how to support someone who may be struggling with mental health.
- **Mindfulness Webinar** - This webinar focused on using mindfulness to positively support mental well-being. We also developed a mindfulness workshop facilitated for employees throughout the year.
- **Unwind Your Mind Mental Well-Being Challenge** - This challenge asked participants to track mindful minutes or brain breaks during the workday. More than 200 employees participated in this challenge.
- **Employee Caregiving Panel** - Employee caregivers shared their stories and talked about the importance of mental health and taking care of yourself when caring for others.



Leadership Development and Employee Training

Strong leadership is essential to our success, and we support our leaders at all levels with a broad range of training opportunities.

Our programs — which we offer across the organization — blend business and leadership content, often with external faculty. We use a variety of training methods, including visual, audio, print, tactile, interactive, kinesthetic, experiential and leader-teaching-leader to address and engage different learning styles. We believe networking and access to our executive team are key leadership success factors, and we incorporate these opportunities into all our programs.

We introduced two new leadership development programs. New Leader Onboarding (NLO) is designed for newly appointed leaders who have supervisory responsibilities. In 2021, 61 supervisors participated as part of a pilot. In 2022, 180 leaders are expected to participate in NLO. The second new program, Frontline Leadership Skills (FLS), is intended for supervisors of hourly employees and will be available in 2022; 1,400 employees are expected to complete the program.

Performance Excellence

Our performance process helps our people focus on the core aspects of their job, align on expectations with their supervisors and teams and consider accomplishments within the context of how they were achieved. Supervisors and employees establish up to five performance commitments annually. At the end of the performance cycle, employees receive a scorecard that summarizes results, including assessing performance in terms of values, knowledge and competencies. Each year, nearly 100% of our salaried exempt and salaried nonexempt employees participate in our performance process.

IN 2021, 1,100+ MPC LEADERS PARTICIPATED IN 40 DEVELOPMENT PROGRAM OFFERINGS.



LEADERSHIP PROGRAMS

LEADERSHIP SKILLS FOR EXTRAORDINARY SAFETY

reinforces fundamental safety leadership concepts and strong employee safety performance through trust building, commitment and responsible leadership.

MARATHON SUPERVISOR DEVELOPMENT PROGRAM

helps leaders strengthen results oriented and effective leadership skills.

COMMERCIAL SKILLS

raises awareness of MPC's business operations and builds the necessary skills to identify, evaluate, negotiate and execute commercial activities supporting MPC's strategic priorities.

MARATHON STRATEGIC LEADERSHIP PROGRAM

helps participants develop a deeper understanding of MPC's business strategy, the dynamics of strategic leadership and value creation.

MARATHON LEADERSHIP EXPERIENCE

blends instruction and experiential learning around key leadership skills and business topics, including strategic thinking, execution, business acumen, innovation, personal leadership philosophy and value creation.

MARATHON ADVANCED LEADERSHIP PROGRAM

provides tools to help participants think and behave differently, navigate and lead change, provide the knowledge and leadership capabilities to work across organizations, incorporate diverse perspectives to produce expected results, and unlock their highest potential and that of their people.

Employee Engagement

Employee Experience Survey

Understanding our employees' experiences at MPC and hearing employee perspectives provide insights that strengthen and better position us for the future. We have implemented a more contemporary process for gathering and evaluating employee feedback, including doing so more frequently and through a wider variety of tools. These include conducting targeted "pulse" surveys throughout the year and holding focus groups to dig deeper and better understand the input collected through surveys.

We conducted an employee survey to gather feedback on key cultural elements that define and shape positive experiences for our employees on a long-term basis. The survey evaluated how employees are experiencing different aspects of working at MPC and how we can improve employee experience.

Results are being shared with employees and companywide action plans and specific business unit plans are being developed to focus on the areas where MPC can improve the employee experience.

FOCUS GROUPS WERE HELD TO BETTER UNDERSTAND THE SURVEY RESULTS AND TO HELP EXPLORE MEANINGFUL OPPORTUNITIES TO ADDRESS EMPLOYEE FEEDBACK.



Respecting Human Rights

HUMAN RIGHTS ARE FUNDAMENTAL TO OUR CORE VALUES OF INTEGRITY, RESPECT AND INCLUSION, AS WE STRIVE TO MAKE A POSITIVE IMPACT ON SOCIETY.

MPC's and MPLX's Policy on Human Rights, Including the Rights of Indigenous People represents our commitment to respect the human, cultural and legal rights of all individuals and communities. MPC also expects our suppliers, contractors and other business partners to likewise respect human rights and remediate human rights impacts in their respective activities.

We are committed to respecting human rights as set out in the United Nations Universal Declaration of Human Rights and the Voluntary Principles on Security and Human Rights. In the development of our policy, we identified and continue to monitor the following key human rights impacts and risks:

- Child labor
- Compensation and benefits
- Diversity and inclusion
- Forced or coerced labor
- Freedom of association and collective bargaining
- Harassment and discrimination
- Health and safety
- Security

MPC and MPLX must follow company policies and comply with laws and regulations related to human rights. We also work within our sphere of influence and business operations to reduce the risk of potential human rights violations by identifying risks, monitoring risks, reporting concerns and remediating violations that relate to identified impacts and risks.

Human Rights Due Diligence

Human rights due diligence is embedded in our ways of working, which are applicable to all employees and contractors. Several key standards, procedures and processes and accompanying employee training, guide our integrated approach to human rights:

- Our **Policy on Human Rights, Including the Rights of Indigenous People** describes our obligation to respect the rights of our employees and members of the communities, including Indigenous communities, where we operate and provides guidance on managing this important responsibility.
 - Our **core values** guide the way we treat each other and all stakeholders. We believe how we do our work is just as important as what we do.
 - Our **Code of Business Conduct** explains how employees, contractors and anyone else acting on behalf of MPC and MPLX must behave as representatives of the company. MPC provides mandatory training and regularly reminds employees and contractors about the Code of Business Conduct.
 - We promote the **well-being of our employees** by providing competitive compensation and benefits, maintaining safe and healthy work environments, respecting their freedom to associate and bargain collectively and promoting diversity, equity and inclusion. We prohibit harassment and discrimination and the use of coerced, forced and child labor.
 - Our **Supplier Code of Conduct** details our expectations for suppliers to not only comply with environmental, social and governance clauses in their MPC contracts, but to adhere to our fundamental values, policies and procedures in how they do business.
 - We perform supplier **ESG performance assessments** and evaluate compliance with the Supplier Code of Conduct for our Tier 1 Critical Suppliers.
- MPC's corporatwide **Operational Excellence Management System** provides a standard and integrated approach to identifying, monitoring and managing risks in our operations, including potential human rights risks.
 - We are committed to **respecting** our neighbors, managing our impacts from projects and operations responsibly and contributing to the communities in which we operate. For major projects, we conduct impact assessments and consider the economic, social, environmental opportunities and risks. This helps us to manage and reduce impacts on the environment and on communities throughout the lifetime of the project. We engage with communities and other stakeholders as part of our impact assessment process to share information, consider suggestions and discuss ways to address concerns.
 - Our processes for **stakeholder engagement and feedback mechanisms** support our integrated approach to human rights due diligence. Through our feedback mechanisms, for example, we help provide appropriate channels for individuals or communities to raise concerns, whether through Community Advisory Panels (CAPs), widely communicated and accessible hotlines, or community engagements. We then work to manage, respond to and resolve issues in a timely manner, as appropriate.
 - Our **Tribal Affairs Working Group** drives proactive approaches to building relationships with the tribes within our operational footprint. When engaging with tribal communities, we seek first to understand their culture and unique history, traditions and beliefs. Learn more about our engagement with Indigenous communities in our Engaging with Indigenous Communities section.

EMBRACING A CULTURE OF SAFETY

The safety of our employees, contractors, business partners, customers and communities is our No. 1 priority.

In keeping with our core values, we approach our work with the highest commitment to safety and a focus on caring for the environment. To continually reinforce these values and drive strong performance, we combine best practice-based operational standards, documented work processes, proven management systems and behavior-based programs to train, protect and empower our employees and contractors.

Maintaining High Personal Safety Standards

We empower everyone at MPC and MPLX to create and maintain a safe and healthy workplace. Employees and contractors are held to the same high standards and expectations and are authorized to stop any work if they feel at risk. Our Operational Excellence Management System (OEMS) is based on the principles of RC14001®, including health and safety and the Plan-Do-Check-Act continual improvement cycle.

Together, these components provide us with a comprehensive approach to managing risks and preventing incidents, illnesses and fatalities. The personal safety standards that we implement comply with, and in many cases, exceed local, state and federal regulations. We train employees and contractors on these standards and conduct frequent audits and quality assurance visits using internal and external subject matter experts to assess the system's effectiveness. Strict adherence to processes and procedures that help avoid safety and environmental incidents is integral to our safety culture.

570,000+ HOURS OF HEALTH AND SAFETY TRAINING FOR MPC EMPLOYEES

OSHA'S VOLUNTARY PROTECTION PROGRAM

OSHA's Voluntary Protection Program (VPP) is a cooperative program between regulators and industry that recognizes and helps drive exemplary safety performance at all levels of an organization.

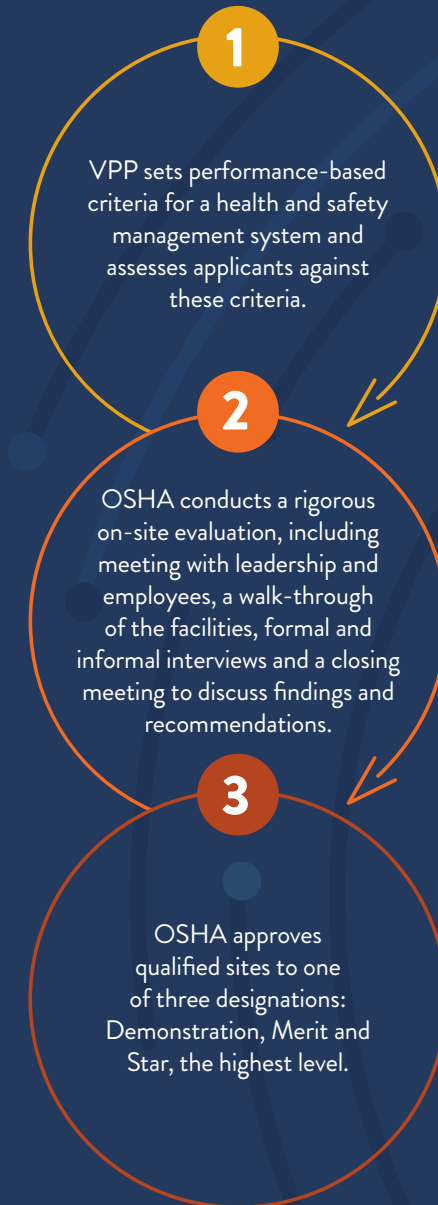
34 VPP STAR CERTIFICATIONS EARNED

COVERING

45 MPC AND MPLX FACILITIES



ACHIEVING VPP STATUS



Adhering to Process Safety Management Practices

We strive to continually improve the safety of our operations by applying good practices in the design and implementation of equipment we use and by keeping safety risk and mitigation at the forefront. Through our OEMS and adherence to Process Safety Management (PSM), we work to reduce the number and severity of process safety events.

MPC and MPLX maintain standards for PSM that emphasize managing hazards using technologies, procedures and management practices. Our Process Safety Management program provides a framework and systematic approach to continuously improve the safety and integrity of our assets while identifying and addressing environmental, health and safety risks. It is designed to prevent or mitigate an incident's consequences and assure ongoing operations.

We also maintain a rigorous auditing schedule to verify facilities are assessed across all process safety elements. When issues are identified, they are documented in our incident tracking tool, and the findings are tracked to closure.



2022 PROCESS SAFETY TARGET

Achieve a **5%** reduction in companywide process safety events over 2020 and 2021 combined average — our two best performance years ever — by:

- Maintaining equipment integrity
- Managing change
- Enforcing safe work practices and operating procedures



32%

reduction in companywide process safety events since 2018, and we aim to continually improve

Reducing Safety Risks Through Peer Observations and Feedback

We implement behavior-based safety (BBS) programs across all operations, empowering employees and contractors to enhance safety practices in the workplace through peer observations. These programs manage employee exposure at the working interface: the point at which employee activities interact with workplace conditions and management systems. Safety excellence is directly related to the effectiveness of our organization at reducing identified hazards; we have found that BBS programs drive strong safety performance.

BBS PROGRAMS

- Help identify the reasons for operational choices made
- Reinforce safe behaviors
- Identify safer ways to perform tasks
- Start conversations that lead to safer decisions before injury can occur



Reporting and Tracking Incidents

All employees and contractors have the responsibility to report an incident or injury, and we prohibit reprisal for reporting. We use a companywide software system to actively report, track and identify trends in incidents and injuries. The system, overseen by management, enables tracking and documentation of incident investigations and corrective actions, if needed, until an incident is closed. We also use this system to measure our operating discipline and management system performance through indicators such as management of change tasks.

FIELD AUDIT SCORING TOOL

MPC refineries are getting valuable safety information to employees in the field faster than ever before, thanks to new web-based software that creates trend data in real-time to bring visibility and prioritization to emerging risks. MPC's refining safety group developed the Field Audit Scoring Tool (FAST), which allows for quicker trend analysis and more timely notifications to the field to help avoid potential safety issues.

Employees can use FAST to complete four types of safety assessments: a life critical audit, joint jobsite visit, job safety analysis and general safety audit.

Assessment observations might include risks such as:

- Hoses and cords that create tripping hazards
- Wearing inadequate personal protective equipment for existing conditions
- Working at heights without being properly secured to prevent a fall
- A lack of communication among workers executing a particular task

The tool was designed so that anyone with a smartphone or other web-capable device can complete an audit in under five minutes, which can yield a large quantity of valuable data. Software instantly processes the data to show daily behavioral trends on a dashboard that all MPC employees and contractors can access.

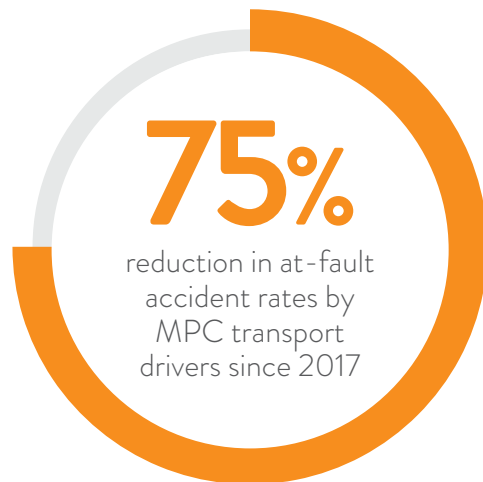


Putting Safety in the Driver's Seat

MPC transport drivers safely deliver essential transportation fuels to gas stations and other locations around the country. In 2021, transport drivers drove more than 53 million miles with an at-fault accident rate of 0.22 per million miles.

We attribute this strong safety performance to effective safety programs across our fleet. Driver observation programs comprising of unannounced field observations and ride-alongs check that drivers are following policies and procedures. All drivers are trained using the Smith System, a defensive driving program proven to prevent collisions, reduce fuel and maintenance costs and save lives.

In 2021, we enhanced our DriveCam program, including sideview cameras on our transport trucks that allow visibility down both sides of the truck, along with digital video recording (DVR) with the ability to review 100 hours of recorded exterior video. These enhancements help us investigate accidents, improve driver coaching and improve future remote driver observations.



Employees and Contractors Working Together

From our employees and contractors in the field to our corporate offices, everyone at MPC and MPLX is expected to hold themselves and others accountable to our safety standards. We communicate this through a robust onboarding process for employees and contractors and reinforce it through recurring trainings and safety discussions. If employees and contractors alike feel a task is being performed unsafely, they have the authority to stop the work in progress until the safety concern is addressed — no matter how big or small the job may be. Our field leadership team members emphasize our focus on safety by personally conducting regular safety meetings with employees and contractors to promote two-way communication and continuous learning.

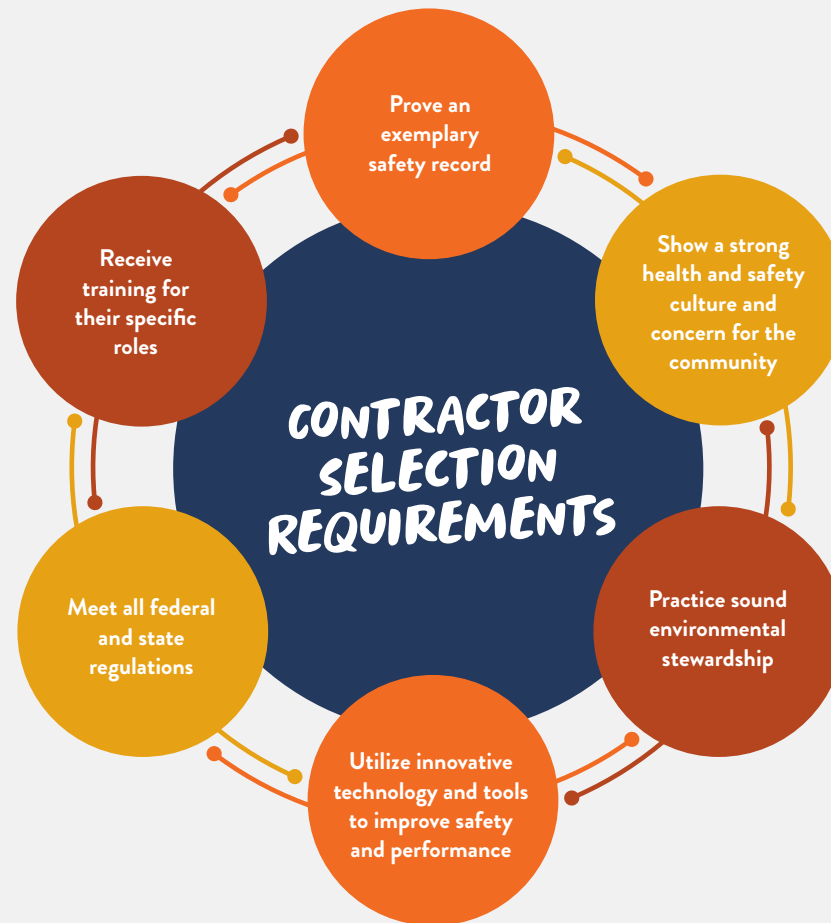
11 NESTED CONTRACTED COMPANIES ARE VPP-CERTIFIED AT OUR SITES, WITH MPC SERVING AS A SPONSOR



A THOROUGH CONTRACTOR SELECTION PROCESS

As reflected in our comprehensive contractor evaluation and selection process, safety is always a priority. Prospective contractors' health and safety programs and safety data, including total recordable incident rates and federal OSHA logs, must be vetted by an independent third party before we will sign contracts with them.

After a job is awarded, but before starting work at any of our facilities, all contractors and subcontractors conducting what MPC and MPLX define as "safety sensitive" work must meet a series of requirements. These requirements include reviewing our operating guidelines regarding contractor safety management, submitting a pre-job safety questionnaire and completing daily safe work permits with input from the contractor.



Industry Safety Awards

American Fuel and Petrochemical Manufacturers Safety Awards

Four MPC refineries and our corporate refining organization were recognized by American Fuel & Petrochemical Manufacturers (AFPM) for safety performance, program innovation and safety leadership in 2021.

DISTINGUISHED SAFETY AWARD

AFPM's highest honor – awarded to facilities for achieving a sustained, exemplary level of safety performance.

 **St. Paul Park Refinery**



GOLD ELITE AWARD

Awarded to facilities with safety performances in the top fifth percentile of industry.

 **Anacortes Refinery**
 **Garyville Refinery**



SAFETY INNOVATION AWARD

Recognizes sites that have unique and innovative programs or practices that effectively improve their occupational or process safety performances.

 **Detroit Refinery**
 **MPC Corporate Refining**

ILTA SAFETY AWARDS

MPLX's Terminal organization earned two safety awards from the International Liquid Terminals Association (ILTA) in 2021.

 **Safety Excellence Award**

Recognizes companies achieving a total employee recordable incident rate of 0.75 or less.

 **Safety Improvement Award**

Awarded to companies that demonstrate consistent trend-line improvement over the previous three years.



CHAMBER OF SHIPPING OF AMERICA'S JONES F. DEVLIN AWARD FOR SAFETY ACHIEVEMENT AWARD

MPLX's Marine organization received the Chamber of Shipping of America's Jones F. Devlin Award for Safety Achievement. The award recognizes vessels for performing outstanding feats of safety during the calendar year.



ENGAGING OUR STAKEHOLDERS AND COMMUNITIES

We seek to create shared value with our many stakeholders, including the communities where we operate.

We work to understand our stakeholders' goals, perspectives and concerns and incorporate their feedback into our business strategies. Our engagement approach and programs involve establishing regular communications with our local stakeholders, assessing community impacts and providing opportunities for stakeholders to share their concerns. As our business and stakeholder interests evolve, we continue to adapt and expand our approach to engagement to meet the changing needs of our company and our stakeholders.



Active Engagement

Engaging with our stakeholders means two-way communications: listening to and addressing their concerns and being accessible to the communities we serve.

Community Hotlines

We have hotlines available 24 hours a day, seven days a week that neighbors of our facilities and landowners of our pipeline rights of way can use to contact us to ask questions and report concerns. Our teams route messages to the appropriate area and are empowered to escalate concerns when necessary.

Community Advisory Panels

Community Advisory Panels (CAPs) are made up of community representatives from various backgrounds and are established at all our major refining assets. CAP meetings provide forums for members to learn more about MPC and our operational and community initiatives and projects, as well as to ask us questions, raise concerns or share about opportunities.

Preparing for a Just and Responsible Transition

We recently published our report on Creating Shared Value Through a Just and Responsible Transition, which is available on our website. This report frames our ongoing commitments and actions, particularly our engagement and collaboration with our employees and communities, to address the potential social impacts of our business as the energy transition progresses. The Just Transition Report is informed by the metrics — including acknowledgment, commitment, engagement and action — in a new just transition indicator published by Climate Action 100+ for its Net-Zero Company Benchmark.

As detailed in our report, we will continue to do our part to enhance the opportunities for our people and value for our communities as we continue to evolve our business. We do this by building upon our long-standing commitments and practices, through engaging with stakeholders, investing in our people and investing in community workforce development.

Stakeholder Engagement Plans

Our Stakeholder Engagement Plans provide road maps of intentional engagement strategies tailored to meet the needs of the communities we serve. We consistently evaluate key stakeholders and local issues through ongoing dialogue, surveys and other feedback mechanisms to keep our strategies relevant. This is important to:

- Build and maintain relationships
- Create and maintain an open dialogue
- Raise concerns and develop solutions
- Forge partnerships, where appropriate

We coordinate stakeholder engagements across our organization, to understand and address our stakeholders' needs and interests, while driving progress toward our shared goals. We have Stakeholder Engagement Plans in place for 100% of our refineries and owned and operated renewable fuels facilities. We're enhancing relationships with neighbors, landowners and tribes near our MPLX assets through ongoing dialogue and proactive engagements.

OUR STAKEHOLDER ENGAGEMENT PROCESS:

- Helps MPC and MPLX leaders and teams engage stakeholders in open dialogue to understand needs and concerns, define priorities, identify resources and pursue shared goals.
- Guides facilities to engage key stakeholders and audiences in ways that are tailored to their circumstances.
- Recognizes that each community where we operate has different needs.

Program Highlights

Engaging Along the Pipeline

Marathon Pipe Line LLC (MPL), a wholly owned subsidiary of MPLX, continues to evolve its model public engagement program, Earning Your Trust. This program engages landowners, community members, schools and public officials about pipeline safety and infrastructure.

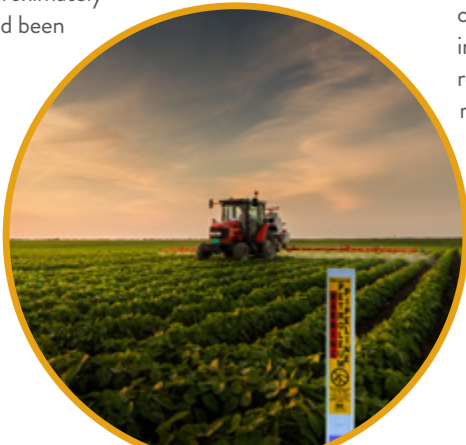
New Neighbor Program

MPL's New Neighbor Program aims to build awareness of pipeline activity and provide educational tools and resources to new landowners. Real-time change of property ownership notifications allow MPL to engage new landowners quickly. Landowners receive initial safety communications within weeks of reported ownership. These more frequent updates have increased employee engagement with landowners.



Depth of Cover Program

MPL began reaching out to farmers using video messaging to raise awareness of shallow pipes to ensure they exercise care when landscaping and farming. The program included video clips of three to five minutes each showing safe methods of working around potential shallow pipelines and ways to mitigate the risk. The program emphasizes the importance of calling 811 before digging or engaging in other farming activities. This form of digital engagement has reached approximately 200 farmers and been well received.



MPL Virtual Event to Promote Safe Digging

For the second year in a row, MPL hosted an 811 Spin-to-Win Facebook Live Event in partnership with the Ohio State Fair. The event promoted 811's Call Before You Dig campaign in a virtual setting to more than 3,500 viewers. Participants were awarded prizes for correctly answering questions related to safe digging. In total, 811 Spin-to-Win reached nearly 6,500 people across the U.S.



MPL RECEIVED OVER 1,200 INQUIRIES ON OUR LANDOWNER LINE IN 2021.

Most of the inquiries were simple questions from landowners and fewer than 3% of the calls were complaints. We responded to more than 97% of the inquiries within three days of receiving the call. The remaining calls varied in complexity or did not require a response. The average response time for all inquiries was 15 hours.

FUELING DETROIT EVENT SERIES

DETROIT, MICHIGAN

During the summer and fall seasons, the refinery hosted the Fueling Detroit Event Series, four community events that included a family movie night, the Southwest Detroit Farmers Market, Back to School Blitz and a Health and Harvest Fair. The events were held at the Kemeny Recreation Center and nearly 250 guests attended each event.

These events brought community members together and helped connect residents to resources such as immunizations, health screenings and other wellness activities.

The Fueling Detroit Event Series will continue throughout 2022, including a financial literacy lunch and learn with Wayne Metropolitan Community Action Agency, a nonprofit organization serving residents throughout Wayne County, Michigan.



Engaging with Indigenous Communities

MPC and MPLX are committed to fostering relationships with Indigenous communities near our facilities. By embracing the culture and ideology of Indigenous people, we gain perspective into their rich history and understanding on how to best create shared value.

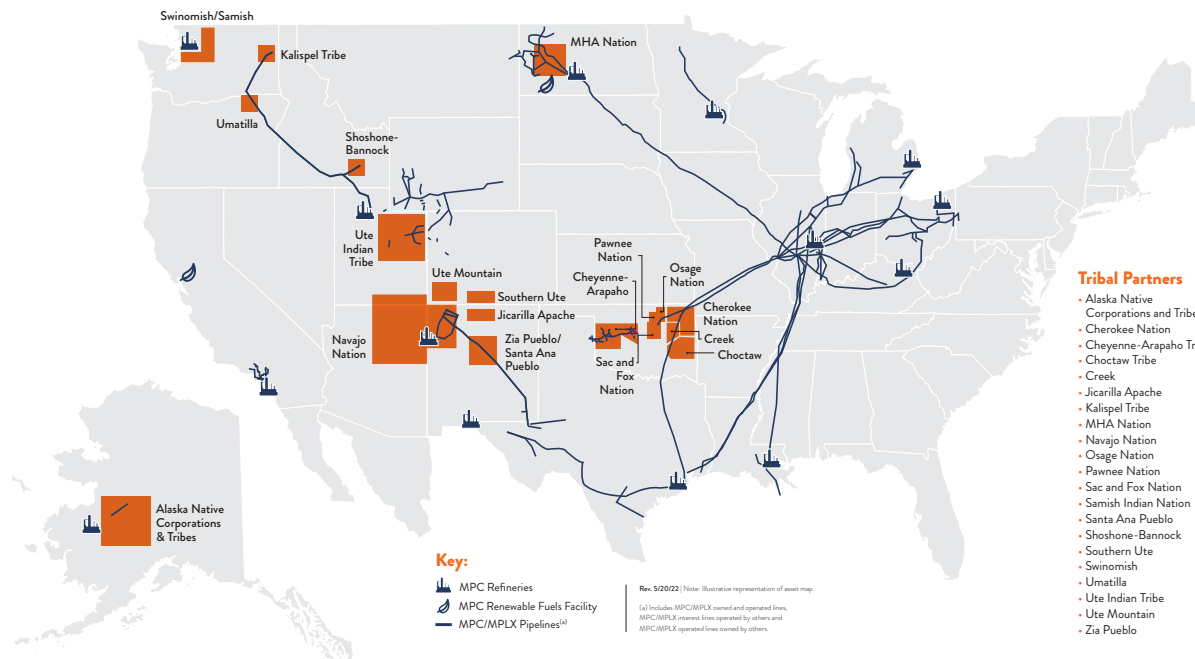
Indigenous perspectives on safety and the preservation of cultural and environmental resources inform our planning and execution of projects and operational activities. Our Tribal Affairs Working Group drives proactive engagements to help build sustainable relationships and successful partnerships with tribal communities. We routinely engage with Indigenous communities through hosting facility tours for tribal leadership, conducting

business update meetings with tribal governments and participating in tribal cultural events.

Respecting Indigenous Cultures

Part of establishing dialogue with tribal partners is understanding what is important to them and interacting in a manner consistent with their values. We continue to provide cultural awareness education programs to key stakeholders across our company to improve understanding of Indigenous history, traditions, rights, cultures and governance. This year, our training programs included tribal leaders from the Navajo, Umatilla, Cherokee and Blackfeet tribes as guest hosts.

IN 2021, MPC INVESTED OVER \$500,000 WITH ORGANIZATIONS THAT DIRECTLY SUPPORT TRIBAL COMMUNITIES IN AREAS WHERE MPC AND MPLX OPERATE. WE ACTIVELY ENGAGE WITH 21 TRIBAL COMMUNITIES ACROSS THE U.S. AND LOOK FORWARD TO EXPANDING OUR REACH WITH OTHER TRIBAL COMMUNITIES WHERE APPROPRIATE.



PARTNERSHIP WITH UTE INDIAN TRIBE

In the Salt Lake City area, our partnership with the Ute Indian Tribe is multifaceted and long-standing. MPC purchases crude from the Ute Indian Tribe, has natural gas gathering and processing on Ute tribal lands and collaborates with the Uintah Basin Technical College on their Commercial Driver's License and Diesel Mechanic programs, which are well attended by students from the Ute Tribe.

In 2021, MPC established the Marathon Petroleum Tuition Gap Funding Program at the Uintah Basin Technical College (UBTech) with a \$100,000 grant. This program supports students, including those from the Ute Tribe, to help pay remaining tuition balances where grants, scholarships or tribe subsidies may fall short. The funding provided by MPC allows participating UBTech students to pursue their education without concern for tuition gaps.



“Scholarships like these help me pay my tuition and buy books. It helps me reach my goals and by furthering our education, we build stronger communities.”

VALIRIE SERAWOP
UBTech Student of the Year

- Tribal Partners**
- Alaska Native Corporations and Tribes
 - Cherokee Nation
 - Cheyenne-Arapaho Tribe
 - Choctaw Tribe
 - Creek
 - Jicarilla Apache
 - Kalispel Tribe
 - MHA Nation
 - Navajo Nation
 - Osage Nation
 - Pawnee Nation
 - Sac and Fox Nation
 - Samish Indian Nation
 - Santa Ana Pueblo
 - Shoshone-Bannock
 - Southern Ute
 - Swinomish
 - Umatilla
 - Ute Indian Tribe
 - Ute Mountain
 - Zia Pueblo

Community Investment

Our community investment strategy focuses on contributions to and partnerships with charitable organizations that:

- Reflect the priorities of our community stakeholders
- Align with our core values
- Amplify our sustainability strategy
- Enable us to make a positive, measurable impact in the communities where we live and work

With the introduction of our updated focus areas in 2021, we have expanded our reach of projects and programming to a broader array of organizations making a difference in communities. In addition to our long-standing key partnerships, we support initiatives focused on workforce development, sustainability and opportunities to support thriving communities.



2021 COMMUNITY INVESTMENTS BY THE NUMBERS

\$21 MILLION+

invested in communities by MPC and MPLX

\$4 MILLION+

employee donations to nonprofits

950+

nonprofits supported

HIGH IMPACT COMMUNITY INVESTMENTS

\$9 MILLION+
COMMUNITY INVESTMENTS of
\$25K+ to over 100 ORGANIZATIONS



170,000+
IMPACTS REPORTED

Data includes a mix of initial results, interim estimates and final reports and may fluctuate as programs/projects near completion.

	Workforce Development	Sustainability	Thriving Communities
Impact Summary	Preparing more individuals for professional success through vocational training, career readiness, technical internships and scholarships	Protecting the environment and wildlife while promoting sustainability and conservation through educational experiences	Meeting basic needs — beyond assistance with food and shelter — we're improving access to resources like youth development and safety initiatives
Impacts Reported	7,000+	120,000+	43,000+
Top Related Indicators	<ul style="list-style-type: none"> • Improved productivity or professional effectiveness • Attained, retained, or improved employment • Earned post-secondary degree, credential 	<ul style="list-style-type: none"> • Accessed resources that helped improve health • Animals treated; habitat improved • Sustainability leaders activated, strengthened • Acres of land or species protected, restored 	<ul style="list-style-type: none"> • Improved community resources • Gained support, improved safety • Achieved food security, improved nutrition

Charitable Contributions and Grants

MPC and MPLX consistently seek unique and innovative investment opportunities that challenge the view of typical grantmaking. By engaging with stakeholders from different backgrounds, we pursue projects that allow us to create a positive measurable impact and build partnerships across diverse organizations.



WORKFORCE DEVELOPMENT: HOW WE'RE HELPING

HABITAT FOR HUMANITY — MARTINEZ, CALIFORNIA

The Martinez Renewable Fuels facility launched its signature Hands on for Habitat program, a three-year partnership with Habitat for Humanity East Bay/Silicon Valley that takes high school students focused on construction trades beyond the classroom and into the world of volunteerism and real-world construction experience. Each year, the program will benefit more than 100 11th and 12th graders enrolled in construction trade programs in the Mount Diablo, Martinez and Pittsburg school districts.

Through this innovative program, MPC is helping students explore high-paying careers while advancing the goal of building the workforce pipeline for our industry and the Bay Area economy.

SUSTAINABILITY: CLEARING THE AIR

PASO DEL NORTE COMMUNITY FOUNDATION — EL PASO, TEXAS

We're developing the air quality monitoring capabilities for the Paso del Norte Air Basin to offer more robust air quality information. The expanded capabilities will offer increased communication between environmental authorities at federal, state and local levels in Mexico and the U.S., as they focus on solving air quality challenges in the Paso del Norte region.

Air quality in this region poses complex challenges due to geography, population, multistate and international jurisdictions due to its extension across state lines and the U.S.-Mexico border. Close to 3 million people live, travel and trade in this mountainous region. MPC funds are helping by adding a new monitoring station to the network in Ciudad Juarez, Mexico.

With MPC's contribution, the installation of an additional monitoring station will increase the current capacity of the network by 33%. This first-of-its-kind partnership was developed to support long-term, sustainable operations and maintenance of the air quality monitoring network.

THRIVING COMMUNITIES: MEETING BASIC NEEDS AND MORE

FOOD BANKS AND FIRST RESPONDERS SUPPORT

Across our operational footprint, we're working hard to meet the most basic needs in the communities where we live and work. From responding to increased needs such as food security, to continuing support for safety initiatives, our commitment to thriving communities is helping us to make a difference in the lives around us.

We've invested more than \$350,000 in food banks and meal programs that benefit our neighbors in all stages of need. Our partnerships allow us to host drive-thru food distribution events and fund community meal programs, as well as provide weekend meals to school-aged students.

To keep our communities safe, MPC has also invested more than \$345,000 to first responder organizations across our territories. We are committed to helping firefighters, health care providers and law enforcement respond effectively when needed.



Employee Giving and Volunteer Incentive Programs

Our employees are passionate about giving to and volunteering for nonprofit organizations in our communities. That's why we provide a robust matching gifts program and reward those who invest their time. We match 100% of employee donations, dollar-for-dollar, to qualified 501(c)(3) organizations, up to \$10,000 per calendar year.

Matching Gifts for Higher Education provides a company match of up to \$10,000 for qualified gifts to two- and four-year accredited colleges and universities. This is separate from and in addition to the Employee Giving Program match.

Our Volunteer Incentive Program allows employees to earn a \$500 award for the charity of their choice by volunteering 24 hours or more with a qualified nonprofit. Employees may earn one individual award and one group award for a total of \$1,000 in potential awards per year.



2021 EMPLOYEE GIVING

\$4 MILLION+

employee donations

\$3.5 MILLION+

match on employee donations

2021 EMPLOYEE VOLUNTEERISM

57,500+

number of employee volunteer hours

800+

number of volunteer projects

THERE WHEN WE ARE NEEDED MOST

HURRICANE IDA RESPONSE

On Aug. 29, 2021, Hurricane Ida made landfall in Louisiana as a Category 4 storm. Ida passed directly over an area that's home to more than 1,000 MPC employees, our Garyville refinery, the Garyville, Mt. Airy and St. James terminals, and several pipeline, marine and trucking assets. In the aftermath of the storm, the safety of our employees and community members was our primary concern.

Stepping Into Action — Our Initial Response

- \$1 million donated by MPC to local charitable organizations and municipalities in and around St. John the Baptist Parish.
- Distributed food, water, hygiene items and other essentials.
- Mobilized volunteers to assist employees with their damaged homes.
- Helped address short- and long-term housing needs for employees.
- Provided \$4,500,000 in interest-free loans to employees for recovery assistance.
- Implemented a special matching gift program that matched the first \$25,000 of employee gifts made to the American Red Cross of Louisiana and St. John United Way.
- \$50,000 donated and hundreds of volunteer hours served by employees to aid recovery.

Long-Term Recovery Support

- Joined the St. John Parish Long Term Recovery Group to assist individuals and families with unmet needs due to the storm.
- Partnered with St. John United Way and Eight Days of Hope to rebuild damaged homes — 50 MPC employees and 1,500 volunteers from 42 states participated.
- \$3 million donated by MPC to provide roofing, painting, carpentry and drywall work at no cost to families impacted.

WINTER STORMS IN THE SOUTH

In February 2021, winter storms swept the nation, delivering heavy snow in the South that affected MPC facilities and employees in Texas and Kentucky. Many were without power and water for days while utility crews worked to restore service.

In addition to distributing clean drinking water to employees at our San Antonio and Galveston Bay facilities, MPC also matched qualifying donations dollar-for-dollar through our matching gifts program and provided disaster relief support in the form of grants to the Salvation Army in Ashland, Kentucky, the San Antonio Food Bank and the United Way of Galveston.

DEVASTATING TORNADOES

In December 2021, tornadoes directly impacted many communities, including our refineries in Robinson, Illinois, and Catlettsburg, Kentucky. Employees donated clean drinking water, cots and children's toys to help and comfort displaced families. MPC also provided grants in the amount of \$10,000 each to the American Red Cross of the Kentucky Region and to Team Kentucky to aid recovery initiatives.

HUMANITARIAN AID FOR UKRAINE

As war continues to ravage Ukraine, our thoughts are with those immediately affected by the violence and destruction. To assist those in need, MPC:

- Donated \$1 million to organizations providing direct assistance
- Implemented a special match program for employee donations separate from and in addition to the regular matching gifts program
- Hosted local collections and fundraisers to support displaced families

ADVANCING SUPPLY CHAIN SUSTAINABILITY

Our commitment to sustainability across the value chain extends to the integration of ESG within our supply chain strategy.

As we experience more fluid and challenging supply landscapes, it is imperative to have a supply chain that is adaptable, agile and able to quickly respond to local, national and global events. MPC and MPLX strive to effectively consider risk when making strategic and operational decisions that will allow for the continuity of goods and services required to support our operations. Through MPC's and MPLX's programs governing supplier selection, supplier compliance assurance, supplier diversity and supplier recognition, we continue to improve our operations and business practices to manage risk and capture opportunities.

We train our supply chain employees on sustainable procurement, including health, safety and environmental issues, compliance and ethics, human rights and diversity. This empowers employees to be educated, aware and proactive to minimize risk through supplier selection, contracting and compliance assurance.

No significant changes to our Tier 1 supply chain occurred in 2021 that would cause or contribute to significant economic, environmental or social impacts.

2021 Non-U.S. Spend by Country¹
(non-U.S. spend %)



● United Kingdom 36% ● Ireland 14% ● Spain 7%
● Canada 20% ● Netherlands 12% ● Other 11%

¹ Excludes crude/feedstock purchases; Other category includes the following countries each having spend of 6% or less: South Korea, Mexico, Italy and Hungary.

Managing Risk Through Supplier Selection

MPC and MPLX value relationships with the thousands of suppliers that enable us to operate in a safe and efficient manner.

We partner with our suppliers to provide essential goods and services and strive to work with suppliers that are committed to sustainability, maintain high safety and ethical standards, offer innovative, value-added capabilities, understand our business, embrace quality procedures and processes, and offer superior technology, cost or service advantages.

Our supplier selection process is a valuable tool for us to manage risk within our supply chain. Potential suppliers are evaluated against key safety metrics and programs through our robust procurement process. Between the use of predominantly U.S. domestic suppliers bound by U.S. laws and regulations and focused vetting of international suppliers, our strategic procurement decisions reduce supply chain risks related to personnel safety, environmental issues and human rights.

4,400+

hours of supply chain sustainability-related training



IN 2021, MPC AND MPLX SPENT NEARLY \$7 BILLION WITH OVER 12,000 SUPPLIERS.



To advance continuous improvement, we have set a goal to comprehensively assess our current risk management program by mid-2023. Through this process we will update identified risks, identify any gaps and opportunities for improvement and implement enhancements to strengthen our overall program.

Supplier Code of Conduct

How we conduct ourselves is just as important as the results we achieve. This expectation applies not just to our employees, but also to our valued partners who play a role in the safe, responsible and reliable operation of our business. Our Supplier Code of Conduct details our expectations of our suppliers' standards and work practices. We expect our suppliers not only to comply with environmental, social and governance clauses in their contracts with MPC, but to adhere to our policies, procedures, Code of Business Conduct and our Supplier Code of Conduct and apply them to how they do business. We provide an Integrity Helpline and encourage all suppliers to anonymously report suspected unethical or illegal acts. As a precondition to participating in our standard bidding process, potential suppliers must first acknowledge and accept the Supplier Code of Conduct.

THE SUPPLIER CODE OF CONDUCT EMPHASIZES EXPECTATIONS OF SUPPLIERS IN THE AREAS OF:

- Environmental, health, safety and security
- Legal and ethical compliance
- Conflict minerals
- Conflicts of interest
- Human rights
- Diversity
- Compliance assurance
- Reporting unethical or illegal acts

COMPLIANCE ASSURANCE

In 2021, we made significant progress in implementing ESG performance assessments and Supplier Code of Conduct compliance evaluations of our Tier 1 Critical Suppliers.

~90 OF OUR TIER 1 CRITICAL SUPPLIERS ARE PARTICIPATING IN OUR ESG ASSESSMENT

\$575 MILLION

Total Supplier Diversity Program spend for 2021

\$1.2 BILLION+

Total Supplier Diversity Program spend since 2019

Advancing a Diverse Supply Chain

MPC and MPLX are committed to a diverse and inclusive supply chain—one that is reflective of the communities where we live and operate. Supplier diversity helps us build a stronger, better, more competitive company. We actively build partnerships with diverse suppliers across our operations, and we are committed to providing equal and impartial opportunities to meet our business needs. This approach stimulates local economic development and enhances our long-term business performance by attracting qualified providers of goods and services and improving supplier competition and sustainability. We actively participate in organizations that support the development of diverse and small businesses in the U.S. We are corporate members of several diversity councils, including the National Minority Supplier Development Council, National LGBT Chamber of Commerce and the Women's Business Enterprise National Council.

Recognizing and Rewarding Performance

Our annual Supplier Recognition Awards program is designed to recognize MPC and MPLX suppliers for outstanding performance in alignment with our core values. Ten awards were given in the following categories:

- Sustainability Partnerships
- Innovative Partnership
- Exceptional Partnership
- Diverse Supplier of the Year
- Supplier of the Year



ROBCO SERVICES RECEIVES REFINING'S DIVERSE SUPPLIER OF THE YEAR AWARD IN 2021

RC Williams Enterprise dba Robco Services (Robco) is a leader in janitorial and facility management services based in Texas City, Texas.

Robco's skill set was invaluable in support of the Galveston Bay refinery in 2020 when the refinery was faced with the task of maintaining operations to support the nation's critical energy needs during the global pandemic. At a time when little was known about COVID-19, Robco stepped up to partner with MPC and focus on aspects of the situation we could control, including increased safety protocols, additional cleaning and mitigation measures.

Robco's assistance in keeping our facilities safe provided MPC employees with peace of mind as they reported to work during an uncertain time.



ACCOUNTABLE AND TRANSPARENT GOVERNANCE

Our Board of Directors

Our Board provides oversight for our company operations and activities, as well as our strategic direction that includes ESG and sustainability objectives.

The Board believes that MPC’s commitment to strong corporate governance benefits all our stakeholders, including our shareholders, employees, business partners, customers, communities, the government and others who have a stake in how we operate.

Our directors bring a range of backgrounds, critical skills, perspectives and expertise to our Board. Our Corporate Governance Principles affirm our Board’s long-standing commitment to actively seek diverse Board candidates with a focus on women and individuals with diverse ethnic and racial backgrounds.

2021 GOVERNANCE HIGHLIGHTS

11/12

independent directors with an independent chairman of the board

At year-end 2021, 11 of MPC’s 12 directors were independent as defined by New York Stock Exchange guidelines.

5.6

years of tenure

The board of directors’ average tenure is 5.6 years.

100%

board meeting attendance

Each director attended 100% of board and committee meetings in 2021.

42%

board diversity

At year-end 2021, 42% of directors were female and/or a racial/ethnic minority or Native American Tribal member.

Director Skills and Experience

	Senior Leadership	Industry	Sustainability & Public Policy	Finance & Accounting	Risk Management	Operations	Government, Legal & Regulatory	Public Company Governance
Abdulaziz F. Alkhayyal	•	•	•		•	•		•
Evan Bayh	•		•	•	•		•	•
Charles E. Bunch	•	•	•	•	•	•		•
Jonathan Z. Cohen	•	•	•	•	•		•	•
Steven A. Davis	•	•	•	•	•	•		•
Edward G. Galante	•	•	•		•	•		•
Michael J. Hennigan	•	•	•	•	•	•		•
Kim K.W. Rucker	•	•	•	•	•		•	•
Frank M. Semple	•	•	•	•	•	•		•
J. Michael Stice	•	•	•	•	•	•		•
John P. Surma	•	•	•	•	•	•	•	•
Susan Tomasky	•	•	•	•	•		•	•

Sustainability Governance

Our corporate impacts, risks and opportunities are identified and managed by company leadership with oversight from our Board. The Board, which has the ultimate responsibility for and is actively engaged in, overseeing risk:

- Reviews strategic risks annually at a designated strategy meeting and on an ongoing basis throughout the year.
- Delegates responsibility for managing certain types of risk to its committees, which report regularly to the Board on activities in their individual areas of oversight.

The Board has four standing committees, each of which is responsible for specific areas of oversight and policy decision-making, as set forth in our Corporate Governance Principles and each committee’s charter.

Our executive leadership team has primary responsibility for sustainability strategies and standards. Sustainability is embedded in several cross-functional leadership committees that help incorporate our objectives into our Operational Excellence Management System (OEMS) standards and sustainability strategies. These are in turn cascaded throughout the organization through leadership teams and cross-organizational teams. Standards and strategies developed by committees of the executive leadership team are aligned with related procedures and plans at the operational level. Leadership meets routinely on these matters and reports to the Board and its committees throughout the year.

COLLABORATION AND COMMUNICATION AMONG THE BOARD, ITS COMMITTEES AND MPC LEADERSHIP ARE CRITICAL TO MAINTAINING OUR ALIGNED DIRECTION ON SUSTAINABILITY MATTERS.



Operational Excellence Management System

Everyone, from our employees to our contractors and business partners, contributes to our sustainability performance. As set forth in our policies, standards and procedures and managed through our Operational Excellence Management System (OEMS), we strive to conduct business safely, responsibly and cost effectively.

Building on Best Practices

Our OEMS helps us manage risks and internal and external requirements, engage with our stakeholders and further deliver on our sustainability objectives. Our current OEMS reflects more than 15 years of refining a comprehensive RC14001® environmental, health, safety and security management system.

In 2020, we published our new, integrated OEMS. It expands on the RC14001® scope, aligning with ISO 9001, which incorporates quality and an increased focus on a process approach and stakeholder engagement.

Advancing Our Performance

Our OEMS outlines the requirements that will enable us to achieve our goals, improve our performance and lead to long-term success. It provides an iterative process and tools to continually improve the work we do through maintaining operational discipline and speaking up with ideas and concerns.

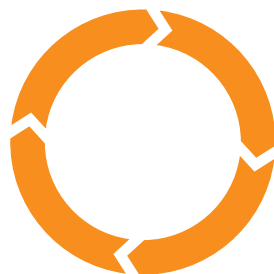
We apply performance-based standards that complement our OEMS and establish organizational expectations. We also periodically review and update these standards to reflect changes in laws or regulations, incorporate recommendations arising from audits and incident investigations, integrate stakeholder feedback and continually improve our performance.

Our Health, Environment, Safety and Security (HES&S) Management Committee, comprising executive leadership team members, oversees the companywide implementation of our OEMS.

EMBEDDING OEMS COMPANYWIDE

We have—and continue to implement — resources and tools companywide, such as our OEMS Playbook and OEMS Centers of Excellence.

- **OEMS Playbook** – Published to further embed our OEMS across the company and provide employees with resources that support continual improvement and risk management. To view our OEMS Playbook please visit our [website](#).
- **OEMS Center of Excellence** – A companywide forum for sharing best practices and lessons learned and promoting continual improvement. The forum includes 30 employees tasked at ensuring management system approaches across MPC and MPLX align with the OEMS framework. They also develop attestation audit recommendations, engage in collaborative audit conversations and create OEMS awareness training and content for use companywide.



OUR COMPANY IS 100% IN SCOPE OF OUR OEMS, WHICH HAS BEEN REVIEWED BY A THIRD PARTY FOR ALIGNMENT WITH RC14001® AND ISO 9001.

Risk Management

A Comprehensive Enterprise Risk Management Program

We apply an Enterprise Risk Management (ERM) methodology to identify, assess and manage enterprise-level risks and review the effectiveness of risk-mitigation strategies. Enterprise-level risks cover environmental, social and governance risks and include topics such as climate change and compliance, as well as other social and governance risks as deemed appropriate. We describe additional risks in our Annual Report on Form 10-K and in other filings with the Securities and Exchange Commission.

Identifying Emerging Risks

Our continuous and dynamic ERM process helps us identify emerging risks that may impact our ability to operate and allocate resources efficiently. The process involves a cross-functional review of potential enterprise-level risks, including risks related to sustainability. Our enterprise risk manager leads the process with quarterly leadership workshops that involve key leaders who are responsible for our sustainability priorities. Our risk analysis includes an examination of the causes and consequences of each enterprise level risk, as well as the development of strategies to mitigate risks — imminent and potential — and position us to capitalize on new opportunities.

Broad-Based Governance

We have formed an ERM community of practice to support the ERM Committee. Comprising mid-level risk and assurance representatives across our value chain, it meets quarterly to discuss, develop, standardize and integrate risk management best practices throughout the company to support risk-based decision-making.

Our Board of Directors and executive leadership team routinely review and discuss enterprise-level risks and strategies. The Board's Audit Committee further reviews our ERM process and performance trends and oversees internal controls and audits to evaluate their effectiveness.

Managing Climate-Related Risks

We carefully review, evaluate and manage climate-related risks and opportunities to enable our ability to adapt and strengthen our resiliency. These include both transitional and physical risks that we routinely discuss with the Board's Sustainability and Public Policy Committee and executive and senior leadership committees.

For more information on how we manage climate-related risks and opportunities and the role cross-functional committees play, please see Page 7 of our annual [Perspectives on Climate-Related Scenarios](#) report.

Overseeing Risks Related to Regulatory Changes

As part of our ERM process, our Board oversees risks related to the regulatory landscape. That includes emerging and proposed regulations related to issues that have the potential to impact our business, such as GHG and other air emissions, water withdrawals and effluents, hazardous materials management, product specifications and employee health and safety.

Identifying and Disclosing Risks

We disclose material risks to our company in the Risk Factors section of our Annual Report on Form 10-K and Quarterly Reports on Form 10-Q that are filed with the Securities and Exchange Commission. Categories of risk described in these reports include:

- Business and Operational Risks
- Financial Risks
- Legal and Regulatory Risks
- Strategic Transaction Risks
- General Risk Factors

Roles and Responsibilities



Ethics and Compliance

Dedicated to the Highest Standards

Through the many aspects of our Compliance and Ethics Program and Business Integrity and Compliance initiatives, MPC and MPLX work to observe the highest standards of conduct in every way.

Roles and Responsibilities



Code of Business Conduct

Operating with the highest standards of integrity is part of our culture. These standards are woven into our day-to-day work and through our Code of Business Conduct, which is based on the overarching principle that we always strive to do the right thing.

By defining expectations for ethical decision-making, accountability and responsibility, our Code helps us make sound business decisions.

The Code also requires that all employees immediately report any suspected illegal or unethical conduct connected with the business of MPC or its affiliates. Our Code applies to every employee at all levels of MPC as well as all consolidated subsidiaries, including those providing services to MPLX. Our Code also applies to the members of the boards of directors of MPC and the general partner of MPLX. Business partners, including suppliers, consultants and contract workers, all have an impact on our reputation. As a result, we work with business partners that share our commitment to quality, safety, ethics and compliance, and we expect them to act in a way that is consistent with our Code.

Approved by the Board, the Code of Business Conduct incorporates topics such as:

- Our Anti-Corruption Program
- Our Anti-Discrimination and Anti-Harassment Policies
- Anti-trust and fair competition compliance
- Our Conflicts of Interest Policy
- Our Insider Trading Policy
- Money laundering compliance

Code Audits

Our Code's annual audit includes a review of business conduct governance, conflicts of interest, employee disclosures, MPC and MPLX Codes of Conduct Policies, anti-corruption compliance, insider trading, aircraft usage, vendor ethics communication and officer business expense reports. Objectives in these categories are reviewed and tested by MPC's Internal Audit organization in conjunction with Law, Government Affairs, Business Integrity and Compliance, Treasury, Aviation, Expense Reporting, Tax and Human Resources, as required.

Code Training and Certification

All new employees are required to take Code of Business Conduct training and complete a new-hire questionnaire. Salaried employees complete an annual Code of Business Conduct certification that enables employees to disclose issues that could present a violation of the Code. Business partners — including suppliers, consultants and contract workers — are expected to comply with both the Code of Business Conduct and applicable law and to support effective compliance programs in their own organizations. Suppliers must also comply with our Supplier Code of Conduct.

TRAINING METRICS

99.6%

of new MPC employees completed Code of Business Conduct training

100%

of all salaried MPC employees completed the Code of Business Conduct certification

100%

of employees who travel internationally for business completed comprehensive anti-corruption training

Legal Compliance and Beyond

We comply with legal requirements governing all areas of our business. We also expect our employees to be knowledgeable about applicable legal requirements and act accordingly.

Our approach to ethics goes beyond compliance with evolving laws and regulations to include implementing proactive initiatives to safeguard our business reputation, the environment and the communities where we live and work. We are committed to selecting contractors, suppliers and other business partners that demonstrate similar practices, and our protocols guide this aspect of the selection process.

Integrity of Financial Records

The chief executive officer, chief financial officer, controller, treasurer and other leaders performing similar roles at MPC and MPLX are subject to our Code of Ethics for Senior Financial Officers.

This separate Code of Ethics affirms the principles of honesty, integrity and sound judgment that we expect of senior executives who are responsible for preparing and certifying our financial statements.

In responding to and reporting any alleged Code of Ethics violation, our Business Integrity and Compliance group has direct access to the Board chairman, chief executive officer, chief financial officer, vice president of Audit and the chair of the Board's Audit Committee.

24/7 Anonymous Integrity Helpline

The Integrity Helpline enables employees, contractors, vendors, customers, community members and others to ask questions or raise allegations related to workplace behavior or ethics. While all our employees are encouraged to speak with their immediate supervisors or Human Resources representative if they have questions or concerns related to ethics and the Code, the helpline is an additional avenue to do so anonymously.

Every allegation received through the helpline or reported to MPC Human Resources is investigated in a manner and to the extent appropriate, based on the nature of the allegation. Our goal is to resolve all matters within 90 days. Where warranted, investigations may result in discipline, a change in policy or procedure, or a determination that an allegation could not be substantiated.

WE MAINTAIN A FIRM NO-RETALIATION POLICY AND WILL NEVER PERMIT A GOOD-FAITH SUBMISSION TO BE A CAUSE FOR DISCIPLINARY ACTION.

Allegation statistics are reported to the Audit Committee of the Board of Directors twice per year, with certain types of allegations escalated rapidly, including certain allegations regarding financial statements and reporting and allegations of Code violations by directors or officers.

POLICIES

Human Rights

Our Policy on Human Rights, Including the Rights of Indigenous People, represents our commitment to respect the human, cultural and legal rights of all individuals and communities. For more information on our commitment to Human Rights, please see [Page 48](#) of this report.

Conflicts of Interest

Our Conflicts of Interest Policy helps employees recognize and resolve real or apparent conflicts of interest. This policy acknowledges that business decisions on behalf of the company must be made by exercising independent judgment in the company's best interest and not influenced by the personal interests of decision-makers.

Anti-Corruption

We maintain a zero-tolerance policy regarding bribes or facilitation payments in any form and require compliance with all applicable laws pertaining to bribery and corruption, including the U.S. Foreign Corrupt Practices Act.

Anti-Discrimination

As an Equal Opportunity Employer, we give consideration for employment to qualified applicants without discriminating on the basis of race, color, religion, creed, sex, gender (including pregnancy, childbirth, breastfeeding or related medical conditions), sexual orientation, gender identity, gender expression, age, mental or physical

disability, medical condition or AIDS/HIV status, ancestry, national origin, genetic information, military or veteran status, marital status, citizenship or any other status protected by applicable federal, state or local laws.

Whistleblowing

Our Whistleblowing Policy, as it relates specifically to accounting matters, addresses complaints we may receive regarding accounting, internal accounting controls or auditing matters. This policy establishes procedures for the receipt, retention and treatment of allegations of unethical behavior and provides for the confidential, anonymous submission of concerns regarding questionable accounting matters.

Cybersecurity and Privacy

We manage cybersecurity risks by working continuously to protect our computer systems, data, assets, infrastructure and computing environments from threats—and to safeguard confidentiality, integrity and availability. We implement a comprehensive suite of policies, practices and standards that guide our teams on how to mitigate and manage these risks.

Our cybersecurity program aligns with the National Institute of Standards and Technology (NIST) – Cybersecurity Framework and relevant NIST publications, such as NIST SP 800-53, NIST SP 800-82. The NIST Cybersecurity Framework helps companies develop a standardized model on which to build their information technology and operational technology cybersecurity program and subsequently measure their maturity in this important area.

Our Chief Information Security Officer is responsible for our cybersecurity program and provides routine briefings to the Board of Directors Audit Committee and the Board as a whole at least twice a year. The Audit Committee further reviews and provides input on our cyber and information security strategy.

Informed and Vigilant Employees

We provide our employees and contractors with special training to help them manage cybersecurity risks. Informed employees and contractors use common sense and situational cybersecurity awareness to do the same things that physical and digital firewalls do – protect our information and critical systems from threats.

Employees and contractors alike act as control agents for what comes into and goes out of both company networks and personal home networks. We only allow our secured devices to access our network remotely, since security on these personal networks is even more important given work-from-home arrangements.

We use a simulated phishing program to train and test MPC email account users on how to augment our hardware and software safeguards. Users are shown how

to identify and report phishing emails and periodically simulated phishing emails test users' awareness of phishing attacks. Our anti-phishing program provides immediate feedback to users and notifies the individual's management in the event of repeated failures. Management then takes appropriate actions and additional training is issued.

Threat awareness and prevention training begins when an employee is hired and continues throughout each employee's tenure, delivering training and materials through multiple channels. Contractors also participate in most of these initiatives.

TRAINING METRICS

99%

of email account holders received phishing simulations

97%

of employees completed cybersecurity awareness training

OUR ASSET OPERATIONS CENTERS ACROSS THE COUNTRY ARE PROTECTED USING A RESILIENT SYSTEM OF LAYERED SECURITY ARCHITECTURE.



Cybersecurity Policies

Our Computer Security Policy governs our cybersecurity efforts and supports compliance with legal requirements. The policy is implemented through a governance process that includes standards, procedures, risk management, defense strategy and compliance reviews.

Cybersecurity policies apply to MPC and MPLX entities, employees and third parties that own, manage, administer, support, develop or work on company information systems and to all our computing environments, whether connected to or segregated from our corporate network. All employees have access to our cybersecurity policies, and we emphasize policy awareness for employees through training and supervisor engagement and implement policy compliance through a structured escalation program, if needed.

Our Code of Business Conduct further addresses protection of company assets, information systems, social media, business records retention and confidential information.



Managing Technology Risks

We manage technology risks through a resilient system of layered security architecture. We place security limits on physical access, segment business and operational networks and align critical applications to withstand cyberattacks with additional layers of security.

Internal IT controls allow us to detect security events by collecting and analyzing data in our centralized Cybersecurity Operations Center.

Third-Party Risks

Using both internal and third-party vendor-provided capabilities, we maintain a proactive, data-centric cybersecurity risk assessment and management program. As part of the approach, employees are trained to report and escalate suspicious incidents and cyberthreats to our IT Service Desk. From there, threats are screened and escalated to our 24/7 Cybersecurity Operations Center for appropriate action. We continue to expand our due diligence capabilities in response to a changing cloud-computing landscape.

Privacy

Protecting personal data we receive is a top priority. We comply with applicable privacy laws, as well as applicable privacy regulations and safeguards, which have been applied to our operations.

MPC adheres to the Payment Card Industry Data Security Standard, which provides a baseline of technical and operational requirements to protect customers' payment card account data, and we engage a third-party Qualified Security Assessor to assess our compliance annually.

INCIDENT PREPAREDNESS AND RESPONSE

- Cybersecurity incident response procedures and business continuity plans are in place and tested at least annually.
- Highly trained employees on our Cybersecurity Incident Response Team are ready to respond 24/7.
- Risk assessments, vulnerability analyses and targeted penetration testing are conducted throughout the year.
- Independent third parties audit, assess and test aspects of our IT and cybersecurity programs annually.



Political Contributions and Advocacy

We believe participating in the political process is an essential part of advancing the meaningful exchange of information and views on issues that affect our company and our stakeholders. MPC takes part in the political process in several ways, including lobbying, contributing to grassroots activity, advocacy for specific issues, participating in trade associations, supporting an active employee political action committee and, where lawful, directly supporting political candidates and ballot issues. All these activities are subject to oversight by our Board of Directors, Sustainability and Public Policy Committee, general counsel and senior vice president of Government Affairs and senior management.

We enhanced our disclosures in 2021 and utilize a web-based platform to provide comprehensive reporting.



Climate Policy

As it relates to climate change, our public policy engagement is guided by our commitment to sustainability, including lowering the carbon intensity of our operations and products, expanding renewable fuels and technologies, conserving natural resources, engaging stakeholders and contributing in our communities. We support policies that complement this strategy and the investments that continue to transform our company. Recent examples of issue advocacy include policies that enable sustainable aviation fuel, carbon capture utilization and storage, cellulosic and renewable diesel pathways, and carbon reduction opportunities under the Renewable Fuel Standard Program.

Lobbying

Federal lobbying reports filed by the company and retained lobbying firms are accessible through our website, where we also disclose the total amounts reported for federal lobbying disclosures. At the state level, we disclose a total of state-reported lobbying expenditures and provide links to state databases of lobbying reports and registrations.

We are committed to conducting climate-related lobbying activities in alignment with the ambition of the Paris Agreement to reduce global GHG emissions and limit global warming to well below 2 degrees Celsius. MPC evaluates climate-related legislative proposals within the totality of the bill in which they reside and determines the level of engagement and support, if any, that is appropriate. Recognizing that not all proposed climate-related legislation reflects sound government policy, that proposals may change significantly during the amendment process and that legislation may have implications unrelated to climate, MPC takes a thoughtful and deliberate approach to the execution of this commitment.

Trade Associations

Taking part in trade associations is an important part of our role as an active member of our industry and the business communities in which we operate. Trade associations provide important ways for us to engage in the development of industry standards and practices and share advances in science and engineering that inform the best practices of the future.

When our trade associations engage on climate policy, we generally encourage them to take positions that are not inconsistent with our commitment to sustainability. For more information on how we evaluate this expectation and for information on the climate positions of our trade associations, please visit our website.

FOR MORE INFORMATION ON OUR:

- Lobbying
- Issue advocacy
- Trade associations and their climate positions
- Political action committee contributions
- Corporate contributions

Please visit our [website](#).



ABOUT THIS REPORT

MPC's and MPLX's 2021 Sustainability Report reflects our long-standing commitment to transparency and accountability around the environmental, social and governance dimensions of our business. We have publicly reported on these matters since 2011, and this report communicates our sustainability strategy and performance in accordance with the Sustainability Accounting Standards Board (SASB) metrics and Global Reporting Initiative (GRI) Standards, as well as other recognized reporting frameworks.

Please visit the following websites for additional information on our sustainability priorities.

- MPC – marathonpetroleum.com/sustainability
- MPLX – mplx.com/sustainability

Reporting Frameworks

SASB

This report is informed by the oil and gas industry metrics from the Sustainability Accounting Standards Board (SASB) standards.

GRI

This report has been prepared in accordance with the GRI Standards: Core option, including use of the Oil and Gas Sector Disclosures.

IPIECA

This report is consistent with International Petroleum Industry Environmental Conservation Association (Ipieca) Sustainability Reporting Guidance for the Oil and Gas Industry (2020) and includes core reporting elements for each presented indicator.

TCFD

We annually publish a separate risk assessment report that follows guidelines set forth by the Financial Stability Board Task Force on Climate-related Financial Disclosures (TCFD). Click [here](#) for our latest Perspectives on Climate-Related Scenarios report.

Reporting Framework Cross-Reference

See Reporting Framework Cross-Reference for mapping of our most significant reporting topics to SASB and GRI standards, as well as Ipieca indicators. See also our SASB and GRI indices provided separately on our [website](#).

Scope of Report

The information and data in this report covers all MPC entities, including MPLX LP, for the calendar year 2021, unless otherwise indicated.

Data Quality

Due to rounding, numbers presented throughout the performance data table may not add up to the totals provided and percentages may not precisely reflect the rounded numbers. Data included has been reviewed by MPC's Internal Audit organization. In addition, we engaged an independent third party, LRQA, to provide independent assurance of our Scope 1, Scope 2 and Scope 3 GHG emissions and Scope 1 and Scope 2 GHG emissions intensity data. Click [here](#) to view the external assurance statement from LRQA relating to our GHG data.

PERFORMANCE DATA

Company Performance

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
ECONOMIC PERFORMANCE⁽¹⁾									
Sales and Other Operating Revenue	\$ millions	-	201-1a.i	-	74,733	96,504	123,949	69,779	119,983
Income from Operations	\$ millions	-	-	-	4,018	5,571	5,576	(12,247)	4,300
Net Income Attributable to MPC	\$ millions	-	201-1a.iii	-	3,432	2,780	2,637	(9,826)	9,738
Capital Expenditures and Investments (excludes acquisitions)	\$ millions	-	-	-	3,106	4,304	6,133	2,754	1,815
Environmental Expenditures (capital and expense) ⁽²⁾⁽³⁾	\$ millions	-	-	-	792	957	1,213	630	991
OPERATIONAL PERFORMANCE⁽⁴⁾									
MPC Manufacturing Inputs	million boe	-	-	-	1,669	1,717	1,817	1,627	1,682
Refining Manufacturing Inputs	million boe	EM-RM-000.A	-	-	1,107	1,111	1,142	940	1,012
MPLX Gas Plant Manufacturing Inputs	million boe	-	-	-	562	605	675	687	670
Crude Oil Refining Capacity	thousand bpcd	EM-RM-000.B	-	-	2,848	3,021	3,067	2,874	2,887
Natural Gas Gathering Volumes	million cubic feet per day	EM-MD-000.A	-	-	-	-	5,967	5,331	5,131
MPLX Crude and Refined Products Transported	thousand bpd	-	-	-	-	-	5,114	4,712	5,453
MPLX Crude Oil Transported	thousand bpd	EM-MD-000.A	-	-	-	-	3,228	2,998	3,380
MPLX Refined Products Transported	thousand bpd	EM-MD-000.A	-	-	-	-	1,886	1,714	2,073
Total Addressable Market for Advanced Biofuels and Associated Infrastructure	\$ billions	EM-RM-410a.2	-	-	-	-	2.8	3.7	8.4
Market Share of Total Addressable Market for Advanced Biofuels and Associated Infrastructure ⁽⁵⁾	%	EM-RM-410a.2	-	-	-	-	2	2	5

Environmental Performance

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
GREENHOUSE GAS EMISSIONS⁽⁴⁾⁽⁶⁾									
Total Scope 1 and Scope 2 GHG Emissions	million tonnes CO₂e	-	-	CCE-4 - C1	45.3	45.2	45.0	40.2	39.9
Scope 1 and 2 GHG Intensity (excludes GHG associated with exported power from cogen)	tonnes CO₂e/mboe input	-	305-4a	CCE-4 - C4	26.1	25.3	23.8	23.7	22.9
Total Scope 1 and 2 GHG Intensity Reduction Since 2014	%	-	305-5a	-	-13	-15	-21	-21	-23
Total Scope 1 GHG Emissions⁽⁷⁾⁽⁸⁾	million tonnes CO₂e	-	305-1a	CCE-4 - C1	37.5	37.0	36.8	32.2	33.0
Total Scope 1 CO ₂ Emissions	million tonnes CO ₂	-	-	CCE-4 - C1	36.6	36.2	35.9	31.3	32.2
Total Scope 1 CH ₄ Emissions	thousand tonnes CH ₄	-	-	CCE-4 - C1	31	29	31.7	32.7	23.5
Total Scope 1 N ₂ O Emissions	thousand tonnes N ₂ O	-	-	CCE-4 - C1	0.2	0.2	0.2	0.2	0.2
Total Scope 1 SF ₆ and Tracer Emissions	tonnes SF ₆ and tracer	-	-	CCE-4 - C1	0	2	1	0	9
Refining Scope 1 GHG Emissions	million tonnes CO₂e	EM-RM-110a.1	-	CCE-4 - C3	32.3	31.6	31.0	26.7	27.5
Refining Scope 1 GHG Covered by Emissions-limiting Regulation ⁽⁹⁾	%	EM-RM-110a.1	-	-	27	28	27	25	23
MPLX Scope 1 GHG Emissions⁽¹⁰⁾	million tonnes CO₂e	EM-MD-110a.1	-	CCE-4 - C3	5.2	5.4	5.7	5.4	5.5
MPLX Scope 1 GHG Emissions from Methane (CO ₂ e basis)	%	EM-MD-110a.1	-	-	13	11	11	13	8
MPLX Scope 1 GHG Covered by Emissions-limiting Regulation	%	EM-MD-110a.1	-	-	-	-	< 2	< 2	< 1

Environmental Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2017	2018	2019	2020	2021
GREENHOUSE GAS EMISSIONS (CONTINUED)⁽⁴⁾⁽⁶⁾									
MPLX G&P Scope 1 Methane Emissions Intensity	%	-	-	-	0.032	0.026	0.026	0.029	0.020
Total Scope 2 GHG Emissions⁽¹¹⁾	million tonnes CO ₂ e	-	305-2a	CCE-4 - C2	7.8	8.2	8.2	8.0	6.9
Refining Scope 2 GHG Emissions	million tonnes CO ₂ e	-	-	CCE-4 - C3	3.9	3.9	4.0	3.8	3.5
MPLX Scope 2 GHG Emissions ⁽¹⁰⁾	million tonnes CO ₂ e	-	-	CCE-4 - C3	3.4	3.8	3.8	3.8	3.3
Scope 3, Category 11: Use of Sold Products - Refinery Yield Method	million tonnes CO ₂ e	-	305-3a	CCE-4 - A2	-	-	426	352	379
ENERGY CONSUMPTION⁽⁴⁾⁽⁶⁾									
Total Energy Consumption	billion gj	-	302-1a	CCE-6 - C1	0.6	0.6	0.6	0.6	0.6
Refining Energy Consumption	billion gj	-	-	-	0.5	0.5	0.5	0.5	0.5
MPLX G&P Energy Consumption	billion gj	-	-	-	0.1	0.1	0.1	0.1	0.1
Energy Intensity	gj/boe	-	302-3a	CCE-6 - A2	0.4	0.4	0.3	0.3	0.4
Refining Energy Intensity	gj/boe	-	-	CCE-6 - A2	0.5	0.5	0.5	0.5	0.5
MPLX G&P Energy Intensity	gj/boe	-	-	CCE-6 - A2	0.1	0.1	0.1	0.1	0.1
Energy Consumption Purchased/Produced by Renewable Sources	million gj	-	302-1b	CCE-6 - C2	-	-	-	6.1	5.4
Energy Consumption Purchased/Produced by Combined Heat and Power	million gj	-	302-1c	CCE-6 - C2	-	-	-	-	9.1
Energy Consumption Purchased/Produced by Combined Cycle Gas Turbine	million gj	-	302-1c	CCE-6 - C2	-	-	-	-	58.0
Avoided Energy Consumption from Efficiency Efforts	million gj	-	302-4a	-	18	20	18	13	19
AIR EMISSIONS⁽⁴⁾⁽⁶⁾									
Total Criteria Pollutant Emissions	thousand tonnes	-	-	-	58.6	54.0	50.3	43.9	43.7
Total SO _x Emissions	thousand tonnes	-	305-7a.ii	ENV-5 - C1	4.7	3.5	3.3	2.5	2.8
Total NO _x Emissions	thousand tonnes	-	305-7a.i	ENV-5 - C1	20.5	19.6	17.9	14.8	15.2
Total CO Emissions	thousand tonnes	-	305-7a.vii	ENV-5 - A1	13.1	11.4	10.8	9.7	9.9
Total VOC Emissions	thousand tonnes	-	305-7a.iv	ENV-5 - C1	16.9	16.0	15.0	14.1	13.1
Total PM ₁₀ Emissions	thousand tonnes	-	305-7a.vi	ENV-5 - A1	3.4	3.5	3.4	2.9	2.7
Total Criteria Pollutant Emissions Intensity	tonnes/million boe	-	-	-	35.1	31.4	27.7	27.0	26.0
Refining Criteria Pollutant Emissions	thousand tonnes	-	-	ENV-5 - A3	35.4	33.2	32.8	28.8	29.9
Refining SO _x Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	4.6	3.4	3.2	2.4	2.7
Refining NO _x Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	12.2	11.8	11.9	10.0	10.6
Refining CO Emissions	thousand tonnes	-	-	ENV-5 - A3	8.2	7.7	7.6	7.0	7.3
Refining VOC Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	7.5	7.4	7.3	6.9	6.9
Refining PM ₁₀ Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	2.9	2.9	2.8	2.5	2.3
Refining H ₂ S Emissions ⁽¹²⁾	thousand tonnes	EM-RM-120a.1	-	-	0.09	0.08	0.09	0.08	0.06
Refining Criteria Pollutant Emissions from Flaring	thousand tonnes	-	-	-	3.0	2.6	2.5	2.1	2.9
Refining Criteria Pollutant Emissions Intensity	tonnes/million boe	-	-	ENV-5 - A3	32.0	29.8	28.7	30.6	29.5
Hazardous Air Pollutant Emissions ⁽¹²⁾	thousand tonnes	-	305-7a.v	-	1.0	1.0	0.9	0.9	1.0

Environmental Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
AIR EMISSIONS (CONTINUED)⁽⁴⁾⁽⁶⁾									
Number of Refineries in or Near Areas of Dense Population	count	EM-RM-120a.2	-	-	-	-	12	12	12
MPLX Criteria Pollutant Emissions⁽¹⁰⁾	thousand tonnes	-	-	ENV-5 - A3	23.2	20.8	17.4	15.1	13.9
MPLX SO _x Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	0.1	0.1	0.1	0.1	0.1
MPLX NO _x Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	8.3	7.8	5.9	4.8	4.6
MPLX CO Emissions	thousand tonnes	-	-	ENV-5 - A3	4.9	3.7	3.2	2.7	2.6
MPLX VOC Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	9.4	8.7	7.7	7.1	6.2
MPLX PM ₁₀ Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	0.5	0.6	0.5	0.4	0.4
WATER⁽⁴⁾⁽⁶⁾									
Total Water Withdrawal	megaliters	-	303-3a	-	154,975	158,823	162,831	145,269	140,181
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	ENV-1 - C1	150,441	155,301	157,379	139,036	135,057
Other water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	ENV-1 - A4	4,533	3,522	5,452	6,234	5,124
Surface Water Withdrawal	megaliters	-	303-3a.i	-	82,228	86,133	87,693	79,001	77,123
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	82,228	86,133	87,693	78,999	77,123
Groundwater Withdrawal	megaliters	-	303-3a.ii	-	21,727	20,647	21,496	22,861	25,103
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	17,567	17,521	17,338	17,883	21,502
Seawater Withdrawal	megaliters	-	303-3a.iii	-	0	0	87	75	73
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	-	0	0	87	75	73
Third-Party Withdrawal	megaliters	-	303-3a.v	-	51,020	52,044	53,555	43,331	37,532
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	50,646	51,648	52,348	42,153	36,432
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	-	374	396	1,207	1,178	1,101
Total Freshwater Recycled	megaliters	-	-	ENV-1 - A5	7,706	7,669	9,167	26,055	27,766
Refining Freshwater Withdrawal	megaliters	EM-RM-140a.1	-	-	148,548	153,518	155,697	137,420	134,495
Refining Freshwater Recycled ⁽¹³⁾	%	EM-RM-140a.1	-	-	5	5	6	19	21
Refining Freshwater Withdrawal in High Baseline Water Stress Areas as Percentage of Total Freshwater Withdrawal	%	EM-RM-140a.1	-	-	27	27	26	23	23
Refining Freshwater Consumed in High Baseline Water Stress Areas as Percentage of Total Freshwater Consumed	%	EM-RM-140a.1	-	-	28	31	27	24	25
Refining Total Water Consumption	megaliters	-	303-5a	-	74,076	74,356	74,661	63,540	62,811
Total Water Withdrawal in Stressed Areas	megaliters	-	303-3b	ENV-1 - C4	43,829	44,636	44,069	37,135	34,576
Surface Water Withdrawal in Stressed Areas	megaliters	-	303-3b.i	-	0	0	0	0	0
Groundwater Withdrawal in Stressed Areas	megaliters	-	303-3b.ii	-	12,517	11,212	11,911	13,931	15,989
Third-Party Withdrawal in Stressed Areas	megaliters	-	303-3b.v	-	31,312	33,424	32,158	23,203	18,587
Total Freshwater Withdrawal in Stressed Areas	megaliters	-	-	-	39,670	41,510	39,911	32,157	30,975
Total Freshwater Recycled in Stressed Areas	megaliters	-	-	-	6,516	5,781	5,267	15,173	16,404
Total Freshwater Recycled in Stressed Areas	%	-	-	-	16	14	13	47	53

Environmental Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2017	2018	2019	2020	2021
WATER (CONTINUED)⁽⁴⁾⁽⁶⁾									
Total Freshwater Withdrawal Intensity	megaliters/million boe	-	-	ENV-1 - A2	90	90	87	85	80
Total Water Consumption	megaliters	-	303-5a	ENV-1 - C2	75,242	75,443	76,299	64,784	63,178
Total Water Consumption in Stressed Areas	megaliters	-	303-5b	-	23,569	24,942	22,757	18,947	18,184
Total Water Consumption Intensity	megaliters/million boe	-	-	-	45	44	42	40	38
Total Water Discharge	megaliters	-	303-4a	ENV-2 - A5	82,410	85,657	89,483	82,478	78,702
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	79,701	83,354	86,427	79,825	76,670
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	2,709	2,303	3,056	2,652	2,033
Surface Water Discharge	megaliters	-	303-4a.i	ENV-2 - A6	47,132	51,819	52,047	49,453	48,710
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	ENV-2 - A5	47,132	51,819	52,047	49,404	48,710
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	0	0	0	49	0
Groundwater Discharge (includes deepwell injection)	megaliters	-	303-4a.ii	ENV-2 - A6	2,677	2,276	2,951	1,993	1,699
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	0	0	32	2	3
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	2,677	2,276	2,919	1,991	1,696
Seawater Discharge	megaliters	-	303-4a.iii	ENV-2 - A6	6,574	6,416	6,377	3,841	1,100
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	6,574	6,416	6,290	3,766	1,087
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	0	0	87	75	13
Third-Party Discharge	megaliters	-	303-4a.iv	ENV-2 - A5	26,027	25,145	28,108	27,191	27,193
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	25,995	25,119	28,059	26,653	26,870
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	33	27	49	538	323
Total Water Discharge in Stressed Areas	megaliters	-	303-4c	ENV-2 - A7	20,260	19,694	21,312	18,188	16,392
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4c.i	-	20,260	19,694	21,312	18,188	16,392
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4c.ii	-	0	0	0	0	0
Seawater Discharge in Stressed Areas	megaliters	-	-	ENV-2 - A7	6,574	6,416	6,290	3,757	1,087
Third-Party Discharge in Stressed Areas	megaliters	-	-	ENV-2 - A7	13,686	13,278	15,022	14,431	15,303
Incidents of Noncompliance with Discharge Limits	count	-	303-4d.iii	-	-	-	92	92	59
Incidents of Noncompliance with Water Quality Permits, Standards and Regulations with Enforcement	count	EM-RM-140.a2	-	-	-	-	13	13	12
WASTE⁽⁴⁾⁽⁶⁾⁽¹⁴⁾									
Total Waste Generated	thousand tonnes	-	306-3.a	-	-	-	422	253	318
Hazardous Waste Generated	thousand tonnes	-	306-3.a	-	-	-	42	42	36
Nonhazardous Waste Generated	thousand tonnes	-	306-3.a	-	-	-	381	211	282
Total Waste Diverted from Disposal	thousand tonnes	-	306-4.a,b	-	-	-	119	69	90
Hazardous Waste Diverted from Disposal	thousand tonnes	-	306-4.a	-	-	-	13	13	10
Hazardous Waste - Preparation for Reuse	thousand tonnes	-	306-4.b.i	-	-	-	0	0	0

Environmental Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
WASTE (CONTINUED)⁽⁴⁾⁽⁶⁾⁽¹⁴⁾									
Hazardous Waste - Recycling	thousand tonnes	-	306-4.b.ii	-	-	-	13	13	10
Hazardous Waste - Other Recovery	thousand tonnes	-	306-4.b.iii	-	-	-	0	0	0
Nonhazardous Waste Diverted from Disposal	thousand tonnes	-	306-4.a,c	-	-	-	106	56	80
Nonhazardous Waste - Preparation for Reuse	thousand tonnes	-	306-4.c.i	-	-	-	2	0	0
Nonhazardous Waste - Recycling	thousand tonnes	-	306-4.c.ii	-	-	-	104	56	80
Nonhazardous Waste - Other Recovery	thousand tonnes	-	306-4.c.iii	-	-	-	0	0	0
Total Waste Directed to Disposal	thousand tonnes	-	306-5.a	-	-	-	303	184	228
Hazardous Waste Directed to Disposal	thousand tonnes	-	306-5.a,b	-	-	-	29	29	26
Hazardous Waste - Incineration with Energy Recovery	thousand tonnes	-	306-5.b.i	-	-	-	19	16	10
Hazardous Waste - Incineration without Energy Recovery	thousand tonnes	-	306-5.b.ii	-	-	-	7	8	12
Hazardous Waste - Landfilling	thousand tonnes	-	306-5.b.iii	-	-	-	3	5	4
Hazardous Waste - Other Disposal	thousand tonnes	-	306-5.b.iv	-	-	-	0	0	0
Nonhazardous Waste Diverted from Disposal	thousand tonnes	-	306-5.a,c	-	-	-	275	155	202
Nonhazardous Waste - Incineration with Energy Recovery	thousand tonnes	-	306-5.c.i	-	-	-	21	20	13
Nonhazardous Waste - Incineration without Energy Recovery	thousand tonnes	-	306-5.c.ii	-	-	-	1	0	1
Nonhazardous Waste - Landfilling	thousand tonnes	-	306-5.c.iii	-	-	-	253	135	188
Nonhazardous Waste - Other Disposal	thousand tonnes	-	306-5.c.iv	-	-	-	0	0	0
Refining Hazardous Waste Generated	thousand tonnes	EM-RM-150a.1	-	-	-	-	38	41	34
Refining Hazardous Waste Recycled	%	EM-RM-150a.1	-	-	-	-	34	31	25
Underground Storage Tanks (USTs)⁽¹⁵⁾	count	EM-RM-150a.2	-	-	-	-	15,872	15,753	298
UST Releases Requiring Cleanup	count	EM-RM-150a.2	-	-	-	-	32	80	0
UST Releases Requiring Cleanup in States with UST Financial Assurance Funds	%	EM-RM-150a.2	-	-	-	-	47	85	0
SPILLS⁽⁴⁾⁽⁶⁾									
Hazardous Material Spilled >1 bbl - volume	bbls	-	306-3	-	-	-	4,594	681	54,108
Hazardous Material Spills >1 bbl - count	count	-	306-3	-	-	-	8	3	8
Total Oil Spilled >1 bbl - volume	bbls	-	-	ENV-6 - C2	3,689	3,680	5,446	1,003	5,493
Total Oil Spills >1 bbl - count	count	-	-	ENV-6 - C2	106	158	160	61	47
Oil Spilled to Land >1 bbl - volume	bbls	-	-	ENV-6 - A3	3,639	2,207	5,340	515	4,740
Oil Spills to Land >1 bbl - count	count	-	-	ENV-6 - A3	79	133	140	59	46
Oil Spilled to Water >1 bbl - volume	bbls	-	-	ENV-6 - A3	50	1,473	106	488	753
Oil Spills to Water >1 bbl - count	count	-	-	ENV-6 - A3	27	25	20	2	1
MPLX Hydrocarbons Spilled >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	-	2,232	855	2,748
MPLX Hydrocarbon Spills >1 bbl - count	count	EM-MD-160a.4	-	-	-	-	41	34	26
MPLX Hydrocarbons Spilled to Land >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	-	2,127	293	1,995

Environmental Performance (continued)

	Unit of Measure	SASB Map	GRI Map	IPIECA Map	2017	2018	2019	2020	2021
SPILLS (CONTINUED)⁽⁴⁾⁽⁶⁾									
MPLX Hydrocarbons Spilled to Water >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	-	105	488	753
MPLX Hydrocarbons Spilled in Arctic >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	-	0	0	0
MPLX Hydrocarbons Spilled in Unusually Sensitive Areas >1 bbl - volume ⁽¹⁶⁾	bbls	EM-MD-160a.4	-	-	-	-	0	0	0
MPLX Hydrocarbons Spilled Recovered >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	-	2,140	781	2,528
Reportable Pipeline Incidents	count	EM-MD-540a.1	-	-	-	-	14	12	14
Reportable Pipeline Incidents - Significant	%	EM-MD-540a.1	-	-	-	-	28.6	33	50
Rail Transportation Accident Releases	count	EM-MD-540a.3	-	-	-	-	0	0	0
Rail Transportation Non-accident Releases	count	EM-MD-540a.3	-	-	-	-	5	6	3
Natural Gas Pipelines Inspected ⁽¹⁷⁾	%	EM-MD-540a.2	-	-	-	-	22.9	11	12.4
Hazardous Liquid Pipelines Inspected ⁽¹⁷⁾	%	EM-MD-540a.2	-	-	-	-	26.7	23.7	34
DESIGNATED ENVIRONMENTAL INCIDENTS (DEIs)⁽¹⁸⁾									
Number of Tier 2, 3 and 4 DEIs	count	-	-	-	98	228	228	151	166
Tier 2 DEIs	count	-	-	-	67	93	143	101	111
Tier 3 and 4 DEIs	count	-	-	-	31	135	85	50	55
ECOLOGICAL IMPACTS									
Wildlife Habitat Council Certified Habitats Owned and Maintained	count	-	-	-	21	23	23	22	20
Acres of Wildlife Habitat Council Certified Habitats Owned and Maintained	acres	-	-	-	1,352	1,347	1,317	1,313	1,183
Land Owned, Leased, and/or Operated within Areas of Protected Conservation Status or Endangered Species Habitat ⁽¹⁹⁾	%	EM-MD-160a.2	304-1	-	-	-	-	23	21
Terrestrial Acreage Disturbed ⁽²⁰⁾	acres	EM-MD-160a.3	-	-	-	-	3,294	4,644	7,328
Impacted Areas Restored	%	EM-MD-160a.3	-	-	-	-	100	92	100

Social Performance

	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2017	2018	2019	2020	2021
U.S. EQUAL EMPLOYMENT OPPORTUNITY COMMISSION STATISTICS (EEO-1 DATA)									
TOTAL EMPLOYEES									
Women	%	-	405-1	SOC-5 - C2	-	-	18.6	18.1	18.1
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	-	12.3	12.5	12.5
Black or African American	%	-	405-1	SOC-5 - C2	-	-	4.8	4.8	4.9
Asian	%	-	405-1	SOC-5 - C2	-	-	3.1	2.8	2.9
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	-	1.2	0.8	0.8
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	-	0.3	0.3	0.4
Two or More Races	%	-	405-1	SOC-5 - C2	-	-	1.4	1.3	1.4

Social Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipiecea Map	2017	2018	2019	2020	2021
U.S. EQUAL EMPLOYMENT OPPORTUNITY COMMISSION STATISTICS (EEO-1 DATA) (CONTINUED)									
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	-	23.1	22.6	23.0
White	%	-	405-1	SOC-5 - C2	-	-	76.9	77.4	77.0
EXECUTIVE/SENIOR OFFICIALS AND MANAGERS									
Women	%	-	405-1	SOC-5 - C2	-	-	22.6	23.1	24.0
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	-	3.2	3.8	4.0
Black or African American	%	-	405-1	SOC-5 - C2	-	-	0	0	0.0
Asian	%	-	405-1	SOC-5 - C2	-	-	0	0	0.0
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	-	0	0	0.0
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	-	0	0	0.0
Two or More Races	%	-	405-1	SOC-5 - C2	-	-	0	0	0.0
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	-	3.2	3.8	4.0
White	%	-	405-1	SOC-5 - C2	-	-	96.8	96.2	96.0
FIRST/MID-LEVEL OFFICIALS AND MANAGERS									
Women	%	-	405-1	SOC-5 - C2	-	-	12.9	14.2	16.0
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	-	7.4	7.4	7.9
Black or African American	%	-	405-1	SOC-5 - C2	-	-	3	3.2	3.5
Asian	%	-	405-1	SOC-5 - C2	-	-	2	1.9	2.2
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	-	0.7	0.4	0.5
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	-	0.2	0.3	0.3
Two or More Races	%	-	405-1	SOC-5 - C2	-	-	1.1	1.2	1.4
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	-	14.4	14.5	15.8
White	%	-	405-1	SOC-5 - C2	-	-	85.6	85.5	84.2
PROFESSIONALS									
Women	%	-	405-1	SOC-5 - C2	-	-	29.9	30.6	30.6
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	-	10.4	10.5	10.7
Black or African American	%	-	405-1	SOC-5 - C2	-	-	3.1	2.6	2.5
Asian	%	-	405-1	SOC-5 - C2	-	-	5.4	5.3	5.6
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	-	0.3	0.3	0.3
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	-	0.1	0.1	0.1
Two or More Races	%	-	405-1	SOC-5 - C2	-	-	1.5	1.4	1.4
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	-	20.8	20.1	20.7
White	%	-	405-1	SOC-5 - C2	-	-	79.2	79.9	79.3

Social Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
WORKFORCE (EXCLUDING SPEEDWAY)									
Total Workforce - All Employees	count	-	-	-	-	20,120	20,520	18,639	17,670
Total Workforce - Women	%	-	405-1	SOC-5 - C2	-	19	19	18	18
Total Workforce - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C2	-	22	23	23	23
Workforce - Full-time Employment	%	-	-	-	-	-	98	99	99
Employees by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	23	20	16	14
Employees by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	42	42	43	43
Employees by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	35	37	40	41
Employees by Age Group Generation Z	%	-	405-1	SOC-5 - C3	-	0	1	1	2
Unionized Employees - All Employees	count	-	-	-	-	4,780	4,650	4,081	3,824
Board of Directors									
Board of Directors - Women	%	-	405-1	SOC-5 - C3	-	17	17	17	17
Board of Directors - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	25	25	25	33
Board of Directors by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	-	83	83	83
Board of Directors by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	-	17	17	17
Officers									
Officers - Women	%	-	405-1	SOC-5 - C3	-	21	22	25	27
Officers - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	4	4	5	5
Officers by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	-	67	55	41
Officers by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	-	29	40	50
Officers by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	-	4	5	9
All Senior Management	count	-	405-1	SOC-5 - C3	-	-	134	127	148
Senior Management - Women	%	-	405-1	SOC-5 - C3	-	15	17	21	23
Senior Management - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	9	9	11	12
Senior Management by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	-	31	22	15
Senior Management by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	-	67	75	77
Senior Management by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	-	2	3	8
All Supervisors	count	-	-	SOC-5 - C3	-	-	2,581	2,449	2,254
Supervisors - Women	%	-	405-1	SOC-5 - C3	-	-	18	17	17
Supervisors - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	-	14	15	16
Supervisors by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	-	22	15	13
Supervisors by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	-	54	56	56
Supervisors by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	-	24	29	31
Total Hires - All Employees	count	-	401-1	-	-	2,650	2,750	1,590	1,366
Total Hires - Women	%	-	401-1	-	-	24	25	27	23

Social Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
WORKFORCE (EXCLUDING SPEEDWAY) (CONTINUED)									
Total Hires - Racial/Ethnic Minority Groups	%	-	401-1	-	-	19	21	25	32
Total Hires by Age Group Baby Boomer	%	-	401-1	SOC-5 - C3	-	-	7	3	5
Total Hires by Age Group Generation X	%	-	401-1	SOC-5 - C3	-	-	23	17	22
Total Hires by Age Group Millennials	%	-	401-1	SOC-5 - C3	-	-	49	41	42
Total Hires by Age Group Generation Z	%	-	401-1	SOC-5 - C3	-	-	21	39	31
Intern/Co-op Hires - Total	count	-	-	SOC-5 - C3	-	519	529	545	296
Intern/Co-op Hires - Women	%	-	405-1	SOC-5 - C3	-	36	35	35	36
Intern/Co-op Hires - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	24	25	24	25
Interns by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	-	24	10	7
Interns by Age Group Generation Z	%	-	405-1	SOC-5 - C3	-	-	76	90	93
Intern to Employee Conversions - Total	count	-	-	SOC-7 - A2	-	119	136	139	51
Intern to Employee Conversions - Women	%	-	405-1	SOC-7 - A2	-	35	32	47	35
Intern to Employee Conversions - Racial/Ethnic Minority Groups	%	-	405-1	SOC-7 - A2	-	20	19	15	24
Intern to Employee Conversions by Age Group Baby Boomer	%	-	405-1	SOC-7 - A2	-	-	1	0	0
Intern to Employee Conversions by Age Group Generation X	%	-	405-1	SOC-7 - A2	-	-	1	0	0
Intern to Employee Conversions by Age Group Millennials	%	-	405-1	SOC-7 - A2	-	-	80	62	18
Intern to Employee Conversions by Age Group Generation Z	%	-	405-1	SOC-7 - A2	-	-	18	38	82
COMMUNITY INVESTMENT⁽²¹⁾									
Community Investment Dollars	\$ million	-	-	SOC-13 - C2	-	21.7	18.7	13	21.3
Nonprofits Supported	count	-	-	-	-	921	534	937	956
Schools Supported	count	-	-	-	-	-	128	123	150
Employee Donations to Nonprofits	\$ million	-	-	-	-	3.35	5.6	4.61	4.1
Employee Volunteer Hours	hours	-	-	-	-	43,765	55,525	44,433	57,522
Corporate Sponsorships, Local Giving, Company Matching Gifts, Disaster Relief	\$ million	-	-	-	-	-	-	10.1	9
Focused, Long-Term Investments and Employee Volunteer Program	\$ million	-	-	-	-	-	-	2.9	11.4
Commercial Initiatives	\$ million	-	-	-	-	-	-	2.1	1.5
Value of Employee Volunteer Hours During Working Hours ⁽²²⁾	\$ thousand	-	-	-	-	-	-	-	119
Community Investment Overhead	\$ million	-	-	-	-	-	-	1.6	1.7
RIGHTS OF INDIGENOUS PEOPLES									
Operations Where Indigenous Communities are Present	count	-	OG-9	-	-	-	13	14	21
Number of Significant Disputes with Local and Indigenous Peoples	count	-	OG-10	-	-	-	0	0	0
Operations Where Involuntary Resettlement Took Place with Indigenous Communities	count	-	OG-12	SOC-11	-	-	0	0	0
SUPPLY CHAIN									
Supply Chain Spend (excluding crude/feedstock purchases)	\$ billion	-	-	-	-	-	19.7	15	7
Diverse Supplier Spend (excluding crude/feedstock purchases)	\$ million	-	-	-	-	-	395	277	575

Safety Performance

	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2017	2018	2019	2020	2021
PERSONAL SAFETY PERFORMANCE									
TOTAL COUNT OF SAFETY INCIDENTS⁽²³⁾									
Refining	count	-	-	-	85	78	86	54	66
Employee	count	-	-	-	37	25	37	20	29
Contractor	count	-	-	-	48	53	49	34	37
MPLX	count	-	-	-	110	130	139	113	101
Employee	count	-	-	-	55	34	76	80	91
Contractor	count	-	-	-	55	96	63	33	10
FATALITIES⁽²⁴⁾									
Total Company - Fatalities	count	-	-	SHS-3 - C1	1	2	0	1	0
Employee	count	-	-	SHS-3 - C1	0	1	0	0	0
Contractor	count	-	-	SHS-3 - C1	1	1	0	1	0
Total Company - Fatality Rate	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.001	0.002	0.000	0.002	0.000
Employee	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.000	0.002	0.000	0.000	0.000
Contractor	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.004	0.004	0.000	0.005	0.000
OSHA RECORDABLE INCIDENT RATE⁽²⁵⁾									
Total Company	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.40	0.43	0.42	0.39	0.51
Employee	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.42	0.26	0.47	0.45	0.60
Contractor	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.39	0.58	0.38	0.33	0.36
Refining	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.29	0.27	0.28	0.22	0.34
Employee	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.30	0.20	0.29	0.18	0.30
Contractor	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.28	0.32	0.27	0.27	0.39
MPLX	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.65	0.76	0.71	0.74	0.94
Employee	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.73	0.45	0.95	0.98	1.25
Contractor	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.59	1.00	0.55	0.46	0.29
LOST TIME RATE⁽²⁶⁾									
Total Company	per 200,000 hrs worked	-	-	SHS-3 - C1	0.09	0.10	0.09	0.10	0.15
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.12	0.10	0.11	0.15	0.19
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.06	0.10	0.07	0.04	0.08
Refining	per 200,000 hrs worked	-	-	SHS-3 - C1	0.04	0.04	0.05	0.04	0.08
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.07	0.07	0.07	0.05	0.08
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.02	0.02	0.03	0.03	0.07
MPLX	per 200,000 hrs worked	-	-	SHS-3 - C1	0.19	0.20	0.17	0.22	0.33
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.25	0.19	0.22	0.34	0.43
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.14	0.21	0.14	0.07	0.12

Safety Performance (continued)

	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2017	2018	2019	2020	2021
PERSONAL SAFETY PERFORMANCE (CONTINUED)									
TOTAL COUNT OF HEALTH ILLNESSES⁽²⁷⁾									
Total Company	count	-	403-10	-	-	-	0	36	27
PROCESS SAFETY PERFORMANCE									
PROCESS SAFETY EVENTS RATE - TIER 1									
Total Company	(total tier 1 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.05	0.07	0.04	0.06	0.08
Refining	(total tier 1 count/total work hrs) × 200,000	EM-RM-540a.1	OG-13	SHS-6 - C1	0.05	0.05	0.04	0.04	0.06
MPLX	(total tier 1 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.10	0.18	0.06	0.19	0.24
PROCESS SAFETY EVENTS RATE - TIER 2									
Total Company	(total tier 2 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.16	0.17	0.19	0.11	0.17
Refining	(total tier 2 count/total work hrs) × 200,000	EM-RM-540a.1	OG-13	SHS-6 - A1	0.15	0.16	0.18	0.08	0.16
MPLX	(total tier 2 count/total work hrs) × 200,000	-	OG-13	SHS-6 - A1	0.29	0.30	0.24	0.38	0.30

Governance Performance

	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2017	2018	2019	2020	2021
GOVERNANCE									
Board Composition - Independent Directors	%	-	-	GOV-1 - A1	-	-	92	92	92
Board Composition - Independent Directors	count	-	-	GOV-1 - A1	-	-	11	11	11
Board Composition - Board Diversity (women + ethnic minorities)	%	-	405-1	GOV-1 - A1	-	-	33	33	42
Board Composition - Women	count	-	405-1	GOV-1 - A1	-	-	2	2	2
Board Composition - Ethnic Minorities	count	-	405-1	GOV-1 - A1	-	-	3	3	4
Board Experience - Significant Refreshment Since 2017	%	-	-	GOV-1 - A1	-	-	50	50	50
Total Amount of \$ Losses from Legal Proceedings Associated with Federal Pipeline and Storage Regulations	\$ million	EM-MD-520a.1	-	-	-	-	0	1.29	8.47
Total Amount of \$ Losses from Legal Proceedings Associated with Price Gouging, Price Fixing or Price Manipulation ⁽²⁸⁾	\$ million	EM-RM-520a.1	-	-	-	-	22.5	0	0
CYBERSECURITY									
MPC Email Account Holders Receiving Phishing Simulations	count	-	-	-	-	-	32,000	36,228	23,236
MPC Email Account Holders Receiving Phishing Simulations	%	-	-	-	-	-	100	100	99

Notes

- (1) As reported in the MPC 2021 Annual Report on Form 10-K for 2021 data. On May 14, 2021, MPC completed the sale of Speedway to 7-Eleven, Inc. As a result of this sale, Speedway's results are reported separately as discontinued operations. Previous years' data is as reported in the MPC 2020 Annual Report on Form 10-K.
- (2) Based on the American Petroleum Institute's definition of environmental expenditures.
- (3) These amounts include spending charged against remediation reserves, where permissible, but exclude noncash provisions recorded for environmental remediation.
- (4) Data before 2019 is inclusive of facilities that MPC did not yet own so that performance can be compared across the same asset base over time. Assets included are those that MPC owned/operated as of Dec. 31, 2019, unless otherwise noted. Estimates used in some instances where historic data was unavailable.
- (5) No significant difference between total addressable market and market MPC serves. Nonrevenue generating initiatives to commercialize biofuels.
- MPC has participated in numerous precompetitive research projects around biofuels, including:**
- Coordinating Research Council – nonprofit organization that directs engineering and environmental studies on the interaction between automotive/other mobility equipment and petroleum products.
 - U.S. DRIVE Fuels Working Group – researching higher levels of biofuels into gasolines. U.S. DRIVE is a voluntary government-industry partnership focused on advanced automotive and related energy infrastructure technology research and development.
- Virent collaborates with many key industry and government partners around advanced biofuels:**
- Synthesized Aromatic Kerosene (SAK) – working with key partners such as the Federal Aviation Administration, University of Dayton Research Institute, Air Force Research Laboratory, GE Aviation, ASTM and others on the production and certification of SAK for use as a sustainable aviation fuel.
 - Renewable Gasoline – working with key partners such as Southwest Research Institute, Johnson Matthey and Cargill on the production and distribution of renewable gasoline.
 - Distillate Fuels from Biomass – working with the University of Colorado-Boulder in partnership with the National Renewable Energy Laboratory and Royal Dutch Shell on the production of distillate fuels from woody biomass.
 - Conversion Process for Lignocellulosic Feedstocks – Virent's BioForming technology's current focus is on using sugars from commercial crops
- to enable faster commercialization of advanced biofuels such as renewable gasoline, SAK and diesel blendstocks, and to provide a pathway for commercializing conversion processes for lignocellulosic feedstocks and cellulose sugars. Current and prior development activities include work with a number of industry and government partners developing cellulosic sugar technologies, as well as the development of Virent's proprietary lignocellulosic conversion technology under competitive grant awards from the U.S. DOE, USDA, DOT and Commerce and in collaboration with various national laboratories, universities, and Wright Patterson Air Force Base.
- (6) Environmental performance reported for facilities of which MPC and MPLX has operational control.
- (7) Scope 1 direct GHG emissions include those from Refining and MPLX and are typically calculated per the EPA's Mandatory Greenhouse Gas Reporting Program or the 2009 API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. Global Warming Potentials used are from Table A-1 to Subpart A of 40 CFR Part 98 as of February 2022.
- (8) Inclusive of carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and Sulfur Hexafluoride (SF₆). Hydrofluorocarbons (HFC), and perfluorocarbons (PFC) emissions are considered to not be material to our operations and are therefore excluded.
- (9) The Martinez and Los Angeles facilities are currently subject to the California Cap-and-Trade Program.
- (10) MPLX emissions data includes emissions from all midstream facilities and, as such, a small amount of MPLX reported emissions are from MPC-owned midstream facilities.
- (11) Location-based Scope 2 emissions that include indirect GHG emissions from consumption of purchased electricity, heat or steam.
- (12) As reported in the Toxic Release Inventory (TRI) Program.
- (13) 2020 and 2021 water recycle data not comparable to prior years due to enhanced water accounting that arose from the Focus on Water program that was launched in 2020.
- (14) The legal or regulatory frameworks used to define hazardous waste and recycled hazardous waste is 40 CFR 260-261.
- (15) On May 14, 2021, MPC completed the sale of Speedway to 7-Eleven, Inc. As a result of this sale, UST data beginning in 2021 does not include Speedway.
- (16) Volume of spills in Unusually Sensitive Areas is inclusive of PHMSA-reportable spills only.
- (17) MPC and MPLX conform to inspection frequency requirements contained in 49 CFR 192 and 195. Nonregulated pipelines are not included. For all years presented, 100% of regulated natural gas and hazardous pipeline inspections were completed as required.
- (18) DEIs include releases to the environment (air, land or water), environmental permit exceedances and agency enforcement actions. Tier 3 and 4 DEIs are the most significant types of DEIs. DEI performance is only inclusive of assets/entities that MPC and MPLX owned in the reporting year. Andeavor assets included beginning in 2018.
- (19) The U.S. Geological Survey (USGS) Protected Areas Database v.2.1 is the nation's official inventory of public open space and private protected areas and was used to determine areas of protected conservation status. The U.S. Fish and Wildlife Service (FWS) Critical Habitat, U.S. FWS National Wildlife Refuge and U.S. Endangered Species Habitat data sets were used to determine areas of endangered species habitat. As MPC's and MPLX's operations are limited to the U.S., these two data sets are appropriate for the evaluation of this metric in place of the references suggested in the standard. As of the end of 2021, 26,505 acres out of 128,365 total acres owned, leased and/or operated were located within areas of protected conservation status or endangered species habitat.
- (20) Includes land impacted during the reporting year. Disturbed land is defined as that which required regulatory review and subsequent permitting (1 acre or greater) OR was identified within an otherwise environmentally sensitive area. Disturbed land does not include either (1) previously disturbed agricultural fields, (2) pipeline work on our current (previously disturbed) right of way, or (3) right-of-way maintenance vegetation clearing on previously disturbed land required by PHMSA to enable aerial pipeline inspections.
- (21) Includes Marathon Petroleum Foundation dollars.
- (22) Calculated using Independent Sector's 2021 Estimated National Value of Volunteer Time.
- (23) To present comparable year-over-year data, the data presented for Count of Safety Incidents does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Refining Count of Employee Safety Incidents is 44 and 33, respectively. 2020 and 2021 MPLX Count of Employee Safety Incidents is 92 and 114, respectively.
- (24) To present comparable year-over-year data, the data presented for Fatalities does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 Total Company Employee Fatalities is 1 and 2020 Total Company Employee Fatality Rate is 0.004. There were no work-related COVID-19 fatalities in 2021.
- (25) To present comparable year-over-year data, the data presented for OSHA Recordable Incident Rate does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Total Company Employee OSHA Recordable Incident Rate is 0.60 and 0.74, respectively. 2020 and 2021 Refining Employee OSHA Recordable Incident Rate is 0.39 and 0.34, respectively. 2020 and 2021 MPLX Employee OSHA Recordable Incident Rate is 1.13 and 1.57, respectively.
- (26) To present comparable year-over-year data, the data presented for Lost Time Rate does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Total Company Lost Time Rate is 0.31 and 0.33, respectively. 2020 and 2021 Refining Employee Days Away Rate is 0.26 and 0.12, respectively. 2020 and 2021 MPLX Employee Days Away Rate is 0.49 and 0.74, respectively.
- (27) Total Count of Health Illnesses include COVID-19 related health illnesses.
- (28) In May 2007, the Kentucky attorney general filed a lawsuit against MPC and Speedway LLC in state court in Franklin County, Kentucky, for alleged violations of Kentucky's emergency pricing and consumer protection laws following Hurricanes Katrina and Rita in 2005. The lawsuit alleged that we overcharged customers by \$89 million USD during September and October 2005. The complaint sought disgorgement of these sums, as well as penalties, under Kentucky's emergency pricing and consumer protection laws. In May 2011, the Kentucky attorney general amended his complaint to include a request for immediate injunctive relief, as well as unspecified damages and penalties related to our wholesale gasoline pricing in April and May 2011 under statewide price controls that were activated by the Kentucky governor on April 26, 2011 and which have since expired. The court denied the attorney general's request for immediate injunctive relief. In July 2019, MPC and the attorney general reached a settlement to resolve this litigation, which included a payment of \$22.5 million USD. We disputed the allegations made against us by the attorney general's office and expressly denied any liability, wrongdoing or violation of the law. With this resolution the attorney general's office acknowledged no admission of liability or wrongdoing. Press releases on this settlement by both MPC and the Kentucky attorney general's office can be found at <https://ir.marathonpetroleum.com/investor/news-releases/news-details/2019/Marathon-Petroleum-Corp-welcomes-settlement-of-litigation-with-the-office-of-the-Attorney-General-of-the-Commonwealth-of-Kentucky/default.aspx> and <https://kentucky.gov/Pages/Activity-stream.aspx?n=AttorneyGeneral&prld=807>, respectively. We recommended that settlement funds be used for the purpose of improving rural roads, navigable waterways and/or emergency management to mitigate the impact of weather events.

GLOSSARY

AFPM: American Fuel & Petrochemical Manufacturers

API: American Petroleum Institute

BBL: Barrel — 42 U.S. gallons

BIODIESEL: A diesel fuel produced from long-chain fatty acids sourced from vegetable oils, recycled greases or animal fats. Biodiesel is made using a transesterification process, causing the fuel to have oxygen atoms in its structure.

BIOFUELS: Fuels that are produced from a biomass, meaning plant, algae material or animal waste. Since biomass feedstock material can be replenished readily, biofuels are considered to be a source of renewable energy.

BIPOC: Black, Indigenous and People of Color

BLM: U.S. Department of the Interior Bureau of Land Management

BOE: Barrel of oil equivalent — a unit of energy based on the energy released by burning one barrel of crude oil or 5.8 million British thermal units.

BPD: Barrels per day

BPCD: Barrels per calendar day — the average of how much crude oil or other feedstock a refinery processes over a period of time, divided by the number of days in that period, typically 365 days (a common rate measure for petroleum refineries).

CERT: Corporate Emergency Response Team — a highly trained group of MPC professionals across the company with nationally recognized response expertise.

CO₂: Carbon dioxide

CO₂E: Carbon dioxide equivalent — a common unit of measurement converting all greenhouse gases to carbon dioxide. MPC calculates CO₂e emissions using the EPA factors identified in Table A-1 at 40 CFR Part 98.

DEI: Designated Environmental Incident — a metric adopted by MPC and MPLX to capture several categories simultaneously. It includes releases to the environment (including to air, land or water), permit exceedances and agency enforcement actions. MPC and MPLX rank DEIs in terms of their severity, with Tier 4 being the most severe and Tier 1 being the least. Below are partial descriptions of the DEI Tiers:

TIER 4

- Release of oil or other hazardous material onto the land greater than or equal to 1,000 bbl
- Release of oil or other hazardous material to a regulated water body greater than or equal to 100 bbl
- Reportable release to air of a hazardous material greater than or equal to 100 times the reportable quantity

TIER 3

- Release of oil or other hazardous material onto the land greater than or equal to 100 bbl but less than 1,000 bbl
- Release of oil or other hazardous material to a regulated water body greater than or equal to 10 bbl but less than 100 bbl
- Reportable release to air of a hazardous material greater than or equal to an established reportable quantity but less than 100 times the reportable quantity

TIER 2

- Release of oil or other hazardous material onto the land greater than or equal to 10 bbl but less than 100 bbl
- Safety system failure or bypass
- Release of oil or other hazardous material into a regulated water body greater than or equal to 1 bbl but less than 10 bbl
- Release to air of a hazardous material greater than or equal to 80% of a reportable quantity but less than an established reportable quantity

TIER 1

- Release of oil or other hazardous material onto the land that is less than 10 bbl (if less than 1 bbl, release must also be reported)

ENERGY STAR®: A program of the U.S. Environmental Protection Agency recognizing energy efficiency. To achieve this status, applicants must perform in the top quartile for energy efficiency and have no unresolved environmental compliance actions from state or federal regulators.

EPA: The U.S. Environmental Protection Agency

ERM: Enterprise Risk Management

ESG: Environmental, social and governance

G&P: Gathering and Processing organization

GHG: Greenhouse gases, such as carbon dioxide and methane

GJ: Gigajoule — a measurement unit of energy. One gigajoule is roughly equivalent to 1 million British thermal units.

GRI: Global Reporting Initiative

HES&S: Health, Environment, Safety and Security

IPIECA: International Petroleum Industry Environmental Conservation Association

ISO 9001: International Organization for Standardization's quality management system criteria

MPC: Marathon Petroleum Corporation

MPL: Marathon Pipe Line LLC — a wholly owned subsidiary of MPLX that specializes in operating pipelines, storage tanks and marine facilities.

MPLX: A diversified, large-cap master limited partnership formed by Marathon Petroleum Corporation that owns and operates midstream energy infrastructure and logistics assets and provides fuel distribution services.

OEMS: MPC's Operational Excellence Management System — a framework used to manage work and achieve health, environmental, safety, security, product quality and sustainability goals in an intentional and continual manner.

OSHA: The U.S. Occupational Safety and Health Administration

OSHA RECORDABLE INCIDENT: An injury or illness that results in any of the following: death, days away from work, restricted work or transfer to another job, medical treatment beyond first aid, loss of consciousness, or a significant injury or illness diagnosed by a physician or other licensed health care professional.

PSE: Process safety event — an unplanned or uncontrolled release of a material from a process. Tier 1 PSEs, which we report in this publication, are the most serious PSEs. Below are detailed descriptions of the PSE Tiers:

TIER 1

- Loss of primary containment (LOPC) exceeding Tier 1 threshold quantity
- LOPC resulting in a fatality, lost time injury, community evacuation or shelter-in-place
- LOPC with fire or explosion damage > \$100,000

TIER 2

- LOPC exceeding Tier 2 threshold quantity
- LOPC resulting in a recordable injury
- LOPC with fire or explosion damage > \$2,500

RC14001®: A management system that combines Responsible Care with the globally recognized ISO 14001 environmental management system, established by the International Organization for Standardization.

RENEWABLE DIESEL: A fuel that is made from renewable biomass. Renewable diesel uses a hydrotreating process to produce the fuel, making it compatible with diesel engines.

SASB: Sustainability Accounting Standards Board

SCOPE 1 EMISSIONS: All direct greenhouse gas emissions by a company. This includes fuel combustion, company vehicles and fugitive emissions.

SCOPE 2 EMISSIONS: Indirect greenhouse gas emissions from consumption of purchased electricity, heat or steam.

SCOPE 3 EMISSIONS: Other indirect greenhouse gas emissions that occur in a company's value chain that are not captured by Scope 2.

TONNE: Metric ton — 2,205 pounds



Forward-Looking Statements

This publication includes forward-looking statements regarding Marathon Petroleum Corporation (MPC) and MPLX LP (MPLX). You can identify forward-looking statements by words such as “anticipate,” “believe,” “commitment,” “could,” “design,” “estimate,” “expect,” “forecast,” “goal,” “guidance,” “imply,” “intend,” “may,” “objective,” “opportunity,” “outlook,” “plan,” “policy,” “position,” “potential,” “predict,” “priority,” “project,” “proposition,” “prospective,” “pursue,” “seek,” “should,” “strategy,” “target,” “would,” “will,” or other similar expressions that convey the uncertainty of future events or outcomes. We have based our forward-looking statements on our current expectations, estimates and projections about our business and industry. We caution that these statements are not guarantees of future performance and you should not rely unduly on them, as they involve risks, uncertainties and assumptions. While our management considers these assumptions to be reasonable, they are inherently subject to significant business, economic, competitive, regulatory and other risks, contingencies and uncertainties, most of which are difficult to predict and many of which are beyond our control. Factors that could cause actual results to differ materially from the future performance that we have expressed or forecast in our forward-looking statements include but are not limited to: general economic, political or regulatory developments, including inflation, changes in governmental policies relating to refined petroleum products, crude oil, natural gas or NGLs, or taxation; our ability to complete the conversion of the Martinez, California, refinery into a renewable fuels facility, within the expected timeframe or at all; the magnitude, duration and extent of future resurgences of the COVID-19 pandemic and its effects; and the factors set forth under the heading “Risk Factors” in MPC’s and MPLX’s Annual Reports on Form 10-K for the year ended Dec. 31, 2021, and in other filings with the Securities and Exchange Commission (SEC). Any forward-looking statement speaks only as of the date of the applicable communication and we undertake no obligation to update any forward-looking statement except to the extent required by applicable law. Copies of MPC’s filings with the SEC are available on the SEC’s website, MPC’s website at <https://www.marathonpetroleum.com/Investors/> or by contacting MPC’s Investor Relations office. Copies of MPLX’s filings with the SEC are available on the SEC’s website, MPLX’s website at <http://ir.mplx.com> or by contacting MPLX’s Investor Relations office.

Pictured: MPC employees plant cypress trees to restore the swamps of Lake Pontchartrain in Louisiana.