Fellow shareholders, friends and neighbors,

At Marathon Petroleum Corporation, we are proud of the work we do to enhance life’s possibilities throughout our nation and around the world. We provide energy and other products that are critical to millions of people’s daily lives, and we are committed to doing it responsibly. That means adhering to our values of health and safety, environmental stewardship, integrity, corporate citizenship and an inclusive culture. It also means being transparent about our performance related to these important values.

We have published our annual Citizenship Report since becoming an independent company in 2011, providing stakeholders like you with an in-depth look at the many ways we live up to our values. In this year’s report, renamed our Sustainability Report, we are bringing you an enhanced level of accountability by using reporting standards of the International Petroleum Industry Environmental Conservation Association. You will find here a more robust discussion of our corporate governance and a careful focus on the processes and programs we use to manage our performance. Through this new disclosure, our objective is to provide you with greater insight about how we work toward continual improvement.

We achieved a significant milestone in 2018, as Marathon Petroleum’s strategic combination with Andeavor expanded our operational footprint from coast to coast. We are now a leading integrated, downstream energy company operating the nation’s largest refining system. We are one of the largest midstream operators in North America and have a nationwide retail and marketing business.

As the world’s need for reliable, affordable, plentiful energy continues to grow, our expanded scale gives us the opportunity to create shared value with so many more of our neighbors, communities and fellow human beings around the world. In this report, you’ll read about how we manage, measure and continually improve our safety performance and environmental stewardship, changes we are making to enhance our community involvement, and progress we are making toward ever greater diversity and inclusion. Our performance in these areas is top-down: driven, executed and monitored by our Board of Directors and Executive Leadership Team; and bottom-up: a result of our thousands of employees’ enthusiasm and dedication to the values that make us successful.

Our success would not be possible without those of you who have a stake in our company’s operations – whether you are one of our neighbors, an employee, a business partner, customer, appointed or elected official, or a shareholder. I thank you for your interest in Marathon Petroleum Corporation, and encourage you to read this report to learn more.

Sincerely,

Gary R. Heminger
Chairman and Chief Executive Officer
About Marathon Petroleum Corporation

2018 by the Numbers

ENVIRONMENTAL STEWARDSHIP

- Reduced direct and energy indirect GHG emissions intensity by 2% in 2018
- Reduced our criteria pollutant intensity by 10% and overall criteria pollutant emissions by 7%
- Reduced freshwater withdrawal intensity 16% since 2014

OUR PEOPLE

- Recognized by Forbes as one of America’s Best Employers for Diversity
- Achieved a score of 85% on the Human Rights Campaign Foundation’s 2018 Corporate Equality Index

OUR COMMUNITY

- Partnered with and contributed to local and national organizations such as the United Way, Children’s Hospital of San Antonio, American Red Cross, Boys & Girls Clubs of America, Girl Scouts of the USA, Children’s Miracle Network Hospitals and Ronald McDonald House Charities

SAFETY AT OUR CORE

- Reduced the number* of personal safety incidents by 8% in 2018 across our Refining operations

AWARDS AND RECOGNITION

- 74% of the EPA’s ENERGY STAR® recognitions awarded to refineries, more than all U.S. refiners combined
- American Fuel & Petrochemical Manufacturers (AFPM) Elite Silver Safety Award
- Voluntary Protection Program Star Site designation, OSHA’s highest status, at three facilities
- 2018 and 2019 EPA ENERGY STAR Partner of the Year, the only refining company to earn the award those years

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* Reduced from 74% in 2017 to 66% in 2018.
MPC At A Glance

Marathon Petroleum Corporation (MPC) is the largest petroleum refiner in the U.S., with more than 3 million barrels per day of crude oil capacity in our 16-refinery system. Our core values of health and safety, environmental stewardship, integrity, corporate citizenship, and an inclusive culture help drive the success of our fully integrated system. In 2018, MPC strategically combined with another independent refiner, Andeavor, which significantly expanded our footprint across key markets, enhanced our midstream footprint in the Permian and Bakken basins, and created our nationwide retail and marketing portfolio. This strategic combination has allowed us to continue our journey of building a valued, dynamic energy company that enhances life’s possibilities, while anchored in our core values. Today, we are the largest refining company in the U.S., doing business through our subsidiaries in 41 states and the District of Columbia; the Mexican states of Baja California, Sonora and Sinaloa; and with trading operations in Canada and Singapore.

Our 12,000 retail and marketing locations include our branded retail outlets across the U.S. and in Mexico, and Speedway LLC, an MPC subsidiary, which owns and operates retail convenience stores nationwide. Our 16 refineries are linked to this retail and marketing system through a robust distribution network and midstream service business. MPC’s midstream business includes the ownership of the general partner and majority limited partner interests in MPLX LP, which owns and operates natural gas gathering, processing and fractionation assets, as well as crude oil and light product transportation and logistics infrastructure.

Headquartered in Findlay, Ohio, our fully integrated system provides operational flexibility to move crude oil, natural gas liquids, feedstocks and petroleum-related products efficiently through our distribution network and midstream service businesses in the Gulf Coast, Mid-Continent and West Coast regions. We have a growing renewable energy portfolio, including our biodiesel facility in Cincinnati, Ohio; joint-venture ownership of three Midwest ethanol plants; ongoing conversion of one of our petroleum refineries to produce renewable diesel; and our wholly owned subsidiary, Virent, that produces advanced biofuels from plant sugars and lignocellulosic materials.
About MPC

Our uniquely integrated business provides us with extensive flexibility, enabling us to meet the growth needs of the market and respond promptly to shifts in market conditions.

REFINING AND MARKETING:
- Our Refining system is the largest in the U.S., with more than 3 million barrels per day of throughput capacity. Our 16 refineries are in the West Coast, Gulf Coast and Mid-Continent regions of the U.S. and are integrated with each other, suppliers, marine terminals, transport trucks, railcars and storage terminals to maximize operating efficiency.
- We sell our refined products to independent retailers, wholesale customers and our branded jetties within our 41-state marketing area.

MIDSTREAM:
- We are the general partner and majority limited partner unitholder in MPLX LP, a midstream company that owns and operates crude oil and light product transportation and logistics infrastructure, as well as natural gas gathering, processing and fractionation assets.
- The transportation links that connect our refineries allow the movement of intermediate products between refineries, terminals and storage facilities to optimize operations, produce higher margin products and efficiently utilize our processing capacity.

RETAIL:
- We have the nation's second-largest company-owned and -operated convenience store chain. We sell transportation fuels and merchandise through convenience stores that we own and operate, primarily under the Speedway brand, as well as through dealer locations, mainly under the ARCO® brand.

For more information on our operational and financial performance in 2018, please see our 2018 Annual Report.
Sustainability at MPC

ABOUT THIS REPORT
This 2019 Sustainability Report, published October 2019, is MPC’s eighth annual Citizenship Report and covers our safety, governance, social and environmental activities, initiatives, and performance for calendar year 2018. Last year’s Citizenship Report covering calendar year 2017 can be found online at https://www.marathonpetroleum.com/content/documents/Andeavor_2017_SR_FINAL_Web.pdf. Andeavor’s 2017 Sustainability Report can be found online at https://www.marathonpetroleum.com/Responsibility/Corporate-Report covering calendar year 2017 can be found online at https://www.marathonpetroleum.com/content/documents/Andeavor_2017_SR_FINAL_Web.pdf. This report has been developed in accordance with the internationally recognized framework for sustainability reporting, the Sustainability Accounting Standards Board’s (SASB) Sustainability Accounting Standards, which was used to guide the materiality and performance approach of this report.

We encourage open dialogue and any feedback that can help to inform and improve our immediate and long-term sustainability performance. The contact for this report can be reached at sustainability@marathonpetroleum.com.

Our third Perspectives report is available on our website. This report follows guidelines set forth by the Financial Stability Board’s International Platform on Financial Governance, Stewardship and Sustainability (IPFE) Sustainability Reporting Guidance. It is also largely informed by the Global Reporting Initiative (GRI) Standards, which was used to guide the materiality and performance approach of our management team.

The information and data in this report cover all MPC and its subsidiaries, including Andeavor’s legacy entities, including Andeavor Logistics LP, Speedway LLC and MPLX LP for the calendar year 2018, unless otherwise indicated. Data included has been reviewed by MPC’s Internal Audit organization. This report has been developed in accordance with the Sustainability Reporting Standards, which were used to guide the materiality and performance approach of our management team.

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and conserve natural resources. Risk governance, preserve the environment and the availability, utilization, profitability for continual improvement of our operations.

Combination helps to ensure best practices Excellence Management System (OEMS). This System) and Andeavor’s Operational Environment, Safety and Security Management systems: MPC’s RC14001® (Health, to integrate and combine two dynamic legacy 2018 presented an unprecedented opportunity The combination of MPC and Andeavor in OPERATIONAL EXCELLENCE DRIVING SUSTAINABILITY THROUGH

Sustainability at MPC

After more than 15 years of continual improvement under the Responsible Care® Management System, MPC adopted the RC14001 certification process in 2018 to further enhance and promote sustainable practices an in our operations. RC14001 is a management system that combines Responsible Care® with the globally recognized ISO14001 environmental management system, established by the International Organization for Standardization (ISO). ISO is an independent, nongovernmental international body that provides specifications for products, services and systems that ensure quality, safety and efficiency. RC14001 provides us with a management system that integrates health, environmental sustainability, safety and social responsibility to increase compliance and continual improvement. Through 2018, we worked to increase the number of sites certified to RC14001. Six refineries, Marathon Pipe Line and our Terminal, Kenai, Alaska * Distinct from concepts of materiality in financial reporting and under securities laws, a sustainability materiality assessment seeks to consider impacts an organization may have on the broader economy, environment and society, and factors viewed as important to stakeholders. A view of MPC’s refinery in A list of topics affecting our industry, society, stakeholder plans and strategies, employee communications, external communications, and materials from both

We undertook an in-depth materiality assessment to identify the environmental, social and governance topics that were most relevant to our company and our stakeholders. That materiality assessment, guided by the Global Reporting Initiative’s (GRI) Standards, informs the content of this report and our future sustainability strategy development. The outcome of this assessment was an enhanced understanding of the topics most significant to our business, the environment and society.

IDENTIFICATION OF TOPICS

We reviewed source documents, such as business and social aspects of our business. External stakeholders included community residents, Community Advisory Panels (CAPs), advocacy organizations, emergency responders, elected officials and regulators. For more information on our approach to stakeholder engagement, see Pages 20 and 21 of this report. We then gathered feedback via in-depth surveys that asked stakeholders to indicate each topic’s level of priority for potential inclusion in our IPIECA (International Petroleum Industry Environmental Conservation Association) and Global Reporting Initiative (GRI) Index. We reviewed approved and validated our final prioritization of the material topics. Each topic is described in greater detail in our Sustainability Report. The next step in our materiality assessment process was to engage more than 1,000 internal and external stakeholders to understand key focus areas and their priority across the economic, environmental and social aspects of our business. External stakeholders included community residents, Community Advisory Panels (CAPs), advocacy organizations, emergency responders, elected officials and regulators. For

STAKEHOLDER ENGAGEMENT AND MATERIALITY ASSESSMENT

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VALIDATION

We reviewed and validated our final prioritization of the material topics. Each topic is described in greater detail in our Sustainability Report.

Community and Stakeholder Engagement Endangered Species and Ecosystems Employees and CEO Compensation Philanthropic Investment and Employee Volunteerism Sustainability Oversight Waste Minimization and Handling Water Use and Wastewater Management

Regulations and Compliance

We are committed to fully comply with regulations governing safety, environment, workers’ rights, social, employment opportunity, human rights and social justice. Our operations, assets and processes require sound knowledge, understanding operating procedures and a commitment to excellence to ensure safety and economic viability. Our approach to sustainability is defined by not only the work we do to conform and comply with all laws and regulations, but also by our drive to meet or exceed our own internal environmental, social, and safety targets.

Driving Sustainability Through Operational Excellence

In 2018, we worked to increase the number of sites certified to RC14001. Six refineries, Marathon Pipe Line and our Terminal, Kenai, Alaska. The next step in our materiality assessment process was to engage more than 1,000 internal and external stakeholders to understand key focus areas and their priority across the economic, environmental and social aspects of our business. External stakeholders included community residents, Community Advisory Panels (CAPs), advocacy organizations, emergency responders, elected officials and regulators. For more information on our approach to stakeholder engagement, see Pages 20 and 21 of this report. We then gathered feedback via in-depth surveys that asked stakeholders to indicate each topic’s level of priority for potential inclusion in our IPIECA (International Petroleum Industry Environmental Conservation Association) and Global Reporting Initiative (GRI) Index.

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Safety

The safety and well-being of our employees and contractors is our top priority and a core value. Our aim is to have an accident-free, incident-free workplace to ensure that everyone goes home safely every day. Therefore, we continuously evaluate and improve our personnel and process safety procedures, diligently maintain our assets to reduce the risk of incidents, and foster a strong safety culture across our company to ensure that our people are working toward this goal every day.

SAFETY MANAGEMENT

Our Executive Safety and Sustainability Committee oversees matters relating to the health, safety and security of our employees and contractors. This includes our Executive Health, Environment, Safety and Security (HES&S) Management Committee, which meets quarterly and is responsible for evaluating performance and overseeing key health- and safety-related corporate policies. To read more about our HES&S management approach and systems, see Page 10 of this Report.

2018 was a year of significant growth and change for MPC as we strategically combined with Andeavor. The safety and well-being of our employees and contractors is our top priority and a core value. Our personal safety standards comply with and often exceed local, state and federal regulations. Our employees and contractors are trained on our standards, and we conduct frequent audits and quality assurance visits to ensure compliance. Our safety culture is one that empowers everyone to create and maintain a safe and healthy workplace.

In 2018, we achieved our lowest combined OSHA recordable incident rate across our Refining operations since 2014: 0.27 per 200,000 hours worked. Our Midstream and Retail segment rates increased to 0.76 and 1.99, respectively, while both remained below industry average incident rates. We continuously drive for ongoing safety improvements in our Midstream and Retail segments, with a goal of zero incidents.

LIFE CRITICAL STANDARDS

Our corporate approach to managing health and safety is designed to provide high-level requirements for the development of specific personal safety standards for various operating organizations and functions across our enterprise. We have extensive safety and environmental policies and procedures, including our Life Critical Standards, which address the personal safety hazards that can result in serious, or even fatal, injuries if not properly managed. All of our operating organizations adopt the Life Critical Standards, which address the potential exposures to chemical, physical, biological and other hazards. The standard outlines controls, protective equipment and monitoring procedures to reduce the exposure risk to our people.

In addition to our training programs, we also conduct field and program audits to assess our compliance with all relevant internal standards and with the RC14001® Management System, which verifies that our internal management systems are of a high caliber and being effectively executed. For more information on RC14001 at MPC, see Page 10 of this Report.

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<th>MPC Refining OSHA Recordable Rate</th>
<th>MPLX Midstream OSHA Recordable Rate</th>
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MPC employees at the St. Paul Park, Minnesota company’s refinery in

13

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OUR CULTURE OF SAFETY

Promoting a culture of safety requires an environment where employees feel comfortable reporting safety concerns and potential hazards. That’s why we impose strict policies prohibiting retaliation for good-faith reporting. Each of our business segments has specifically designed functions for reporting hazards and improvement suggestions so that employees have an anonymous channel for sharing comments and concerns. Such programs are also important to ensure we have employee feedback and input when it comes to strengthening our management approach and safety standards. In the most recent companywide employee survey, 92% of our employees agreed or strongly agreed that we have a favorable health, environment, safety and security culture.

SAFETY RECOGNITION

Our Dickinson, North Dakota; Martinez, California; and Salt Lake City, Utah, refineries were among the recipients of the Elite Silver Safety Award from the American Fuel & Petrochemical Manufacturers Association. The award recognizes the superior 2018 safety performance of the top 5% of petroleum refining and petrochemical facilities. Our Dickinson refinery has won this award for two consecutive years.

Retail Safety

Our Retail segment, including our subsidiary Speedway LLC, is a large component of our business, with nearly 4,000 convenience stores and more than 45,000 Retail employees nationwide in 2018. The environment in which our Retail employees work is much different than that of Refining and Midstream, and therefore presents a different set of workplace hazards. As a result, we track our Retail safety data and management approach separately so that we can analyze performance and make necessary improvements to protect our Retail employees.

Just like other aspects of our business, we strive for zero injuries in our Retail business so that our employees can go home safely every day. A dedicated safety expert is responsible for training and certifications and serves as a subject matter expert in each region. Our district managers attend specific safety training sessions as part of a District Manager Training program. We have also established Safety Captains at our stores who receive in-depth training and have specific safety duties, including the sharing and promoting of safety key learnings.

COLLABORATING WITH OSHA

Working closely with others in our industry and regulators, such as OSHA, can help us all to create a safer workplace. OSHA’s Voluntary Protection Program (VPP) recognizes employers and workers in private industry and federal agencies that have exemplary occupational safety and health performance and programs. To achieve VPP status, applicants must complete a rigorous application and inspection process by OSHA that can take years. There are three levels of designation: Demonstration, Merit and Star, which is the highest level.

By the end of 2018, 18 of our sites, including our corporate headquarters, various refineries, terminals and MPLX locations, have achieved VPP Star status. Additional sites are actively pursuing VPP Star status and are in various stages of the process. We have found that our VPP sites experience lower injury rates and benefit from an enhanced safety culture.

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PROMOTING EMPLOYEE WELLNESS

Our approach to protecting our people goes well beyond safety. We know that active and engaged employees must also be mentally and physically healthy in order to do their best work in a safe and meaningful way. Our Health and Wellness program provides all employees across our company with programs and information to promote healthier lifestyles. In addition to wellness challenges and nutrition and exercise tips, the program also includes a cash stipend for completion of an annual preventive physical, and an annual wellness assessment. Essential to these programs are our Wellness Champions, who are located across our facilities and offices to promote wellness among employees.

Retail OSHA Recordable Rate (incidents/200,000 hours)

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Process Safety

Process safety means maintaining pipes, tanks, processing units, valves and other hardware so that they work as intended, keeping materials contained and our employees and communities safe. We proactively manage our process safety risk by following industry best practices and continuously improving our process safety management systems. Among these systems are:

- RIGSavvy, a safety software that helps us identify hazards before they cause harm and improve process. It is a cloud-based system that allows us to perform assessments and implement the appropriate safeguards, such as rigorous process safety assessments to identify risks and develop process safety improvement plans based on the data. Current areas of focus include:
  - Mechanical integrity, especially reducing loss of primary containment from small-bore piping.
  - Improving human reliability through human factors analysis and evaluation of operator error.

In 2018, we worked toward integrating HIC’s and legacy Andeavor’s process safety management systems. As part of the effort, we conducted an assessment to better determine where improvements could be made. Other efforts throughout the year included:

- Evaluating, improving, optimizing and replacing equipment throughout our enterprise.
- Also continued to fine-tune and update our approach to audits and training.

Transportation Safety

Our commitment to safety extends to transportation, storage and distribution businesses, including our pipeline, terminals and storage assets as well as our marine, truck and rail operations. We utilize industry standards, evaluate and implement improvements to our systems, and continually train employees and contractors on best practices.

An important component of managing safe and responsible transport is leveraging technology and data. This includes reviewing both leading and lagging process safety statistics to push safe driving improvements, and using monitors and other forms of hands-free technology to support safe driving efforts if and when an incident should occur while someone is in transit.

Training is also an important component of our approach to transportation safety. In 2018, our Transportation group developed and distributed a video series titled “Responding to Fuel Transport Emergencies.” The training highlights the normal operation of a fuel transport, key equipment design and safety features. The training has been provided to key third-party first responders, shared with others in our industry and published for public use. Since its publication, nearly 7,000 external first responders completed the training, resulting in increased emergency preparedness in the public sector.

Our Marine Transportation organization provides transportation services for crude oil, products and other materials. With 23 towing vessels and 256 barges operating in our rivers, lakes and oceans, we know that ensuring we are operating safely and without incident is paramount. In 2018, the U.S. Coast Guard implemented additional towing vessel safety requirements for inland marine operators, which established new inspection standards and also specified a safety management system requirement. To comply, we implemented an American Waterways Operators’ Safety Management System (TSMS), which has been certified with the American Waterways Operators’ Safety Management System (TSMS) since 1998. We also provided extensive training to our personnel as part of the first-year implementation target. Through these efforts, we are well-positioned to fully comply with the TSMS requirements by 2022. Our Marine Transportation organization remains one of the safest among inland marine operators.
BUSINESS ETHICS
Our commitment to corporate responsibility is essential to the success of our business and our ability to create shared value for our stakeholders. At MPC, we have laid a foundation for principled business practices, transparent operations, and historically strong, independent, and honest. And, with a focus on our core values of health and safety, environmental stewardship, integrity, corporate citizenship, and diversity, we are dedicated to providing a collaborative, supportive and inclusive work environment where our employees can thrive and feel respected when working with MPC.

GOVERNANCE AND BOARD OF DIRECTORS
Strong corporate governance is critical to our long-term business success. MPC’s Board of Directors has ultimate oversight over the management of our business. The Board is comprised of 12 directors, 10 of whom are independent. The independent directors have elected our Chairman and CEO and the Lead Director to lead the Board. The Board maintains four standing committees: Audit, Corporate Governance, and Nominating, and Sustainability. The roles of these committees are discussed in more detail on Page 9 and in our 2019 Proxy Statement.

Our Board of Directors, as a whole, constitutes a combination of the skills, professional experience, and diversity of backgrounds to ensure an effective board. The average tenure of our Board members is 3.7 years, and 33% of our Board members are women or ethnic minorities. Most of our directors have senior corporate management experience. Many of our directors have substantial experience in corporate management, industry, operations and financial experience, and all have a background in public company board service. More information about our Board and each director’s qualifications can be found in our 2019 Proxy Statement. More information about the diversity of our Board can be found in the People section of this report on Page 24.

INTEGRITY AND GOVERNANCE
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COMPLIANCE AND ETHICS AT MPC
Conducting business with the highest standards of integrity and ethical conduct, as guided by our Code of Business Conduct, is of the utmost importance to us and our business. All MPC employees must follow our Code, which defines expectations for ethical decision-making, accountability and responsibility.

All salaried MPC employees are required to regularly complete the Code of Business Conduct training and an annual Code certification. This certification includes an ethics quiz and provides the opportunity for employees to disclose any issues that could be a violation of the Code. In 2018, 100% of all MPC’s salaried employees completed the annual certification.

Our Conflicts of Interest Policy provides guidance on recognizing and reporting any personal conflicts of interest. This policy acknowledges that business decisions on behalf of the company must be made through the exercise of independent judgment in the company’s best interest and not influenced by the personal interests of decision makers.

CORPORATE GOVERNANCE

INTEGRITY AND GOVERNANCE

WHISTLEBLOWING

Our Whistleblower as Accounting Matters Policy establishes procedures for the receipt, retention and treatment of complaints received by the company regarding accounting, internal controls or auditing matters and provides for the confidential submission of questions regarding accounting matters.

CONFLICTS OF INTEREST

Our Conflicts of Interest Policy provides guidance on recognizing and resolving real or apparent conflicts of interest. This policy acknowledges that business decisions on behalf of the company must be made through the exercise of independent judgment in the company’s best interest and not influenced by the personal interests of decision makers.

HUMAN RIGHTS

We require compliance with all applicable laws, regulations and rules aimed at upholding the rights and dignity of all people and have invested resources so that all our employees and contractors feel respected when working with MPC.
STAKEHOLDER ENGAGEMENT
We recognize the importance of positive, meaningful interactions with a broad spectrum of our stakeholders and they are central to creating shared value. Our approach to stakeholder engagement includes building support for business operations, fostering strong community ties so that we can maximize our positive impacts, and maintaining continuous dialogue with community leaders and representatives where we operate. Our stakeholders include employees, investors, contractors, customers, suppliers, business partners, communities, Community Advisory Panels (CAPs), advocacy organizations, emergency responders, elected officials and regulators. Each year MPC creates a broader, more encompassing stakeholder engagement strategy. We achieve shared value by fostering open communications with these stakeholders, exploring the dynamics of their perceptions, forging partnerships, responding to concerns and making positive, strategic investments.

We will continue to evolve, expand and grow our approach to stakeholder engagement to meet the changing needs of our company and our stakeholders. In 2018, following the acquisition of Andeavor, we engaged with new groups in the areas of the country where our operations have expanded.

COMMUNITY ADVISORY PANELS (CAPs)
MPC's CAPs convene independent groups of local partners through CAPs to facilitate engagement with local community leaders and residents. CAPs are made up of representatives from the community, which can include teachers, retirees, business owners, elected officials, residents who live near our facilities, community organizers and other interested parties, depending on the community.

Each CAP meets on a regular basis to learn more about key activities within their local refinery and other community matters. At each meeting, a member of the refinery leadership team provides an update to community members, detailing the refinery's performance and providing relevant updates on significant projects. Most importantly, the CAPs provide us insight into activities and issues within our communities and identify ways that we can further enhance our engagements where we live and work. While most of our CAPs are dedicated only to our facilities, some CAPs in more industrialized areas include industry partners and peers. These combined panel offers opportunities for community members to hear from and provide feedback to, the broader industry.

WORKING WITH NATIVE COMMUNITIES
Our acquisition of Andeavor expanded our operations across the U.S. and increased our interactions with native communities – a key stakeholder group for MPC. Strong partnerships with these communities are critical to our success, and we strive to respect all tribal rights and traditions.

We continue to develop new policies and working groups aimed at building and sustaining mutually beneficial relationships with all tribes within our operational footprint to increase shared value between the company and native communities. As part of our commitment to this process, we engage third-party consultants to help us work with programs to educate our employees about native communities and create relationship-building opportunities.
Our People

Our people are the foundation of our success, and we strive to continue cultivating a strong workplace culture grounded in our core values. This has a direct impact on employee engagement, enhancement and satisfaction, and is essential to our recruitment, retention and development efforts. Our employees help us champion a workplace that allows each person to maximize their full potential and encourages them to seek the career opportunities they desire. We welcome new ideas, invest in our people, and work to foster a collaborative and inclusive team environment.

“We need diverse perspectives and ideas to continue our success, to create solutions where we face challenges and to shape our future. Every day we work to create an environment where people feel valued for who they are and what they do and inspired by the opportunities we have to positively impact people’s lives.”

Fiona C. Laird
Chief Human Resources Officer

2018 AWARDS AND RECOGNITION

For many years, we have promoted greater awareness of how valuing all perspectives leads to better business decisions - for our employees, shareholders, business partners and communities. We are proud to be recognized by external organizations for our efforts and progress, and we are excited about our plans to keep improving.

**Total Workforce**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Employees</th>
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<tbody>
<tr>
<td>Women</td>
<td>31%</td>
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<tr>
<td>Racial/ethnic minority groups</td>
<td>46%</td>
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**Workforce Excluding Speedway**

<table>
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<th>Percentage</th>
<th>Employees</th>
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</thead>
<tbody>
<tr>
<td>Women</td>
<td>22%</td>
</tr>
<tr>
<td>Racial/ethnic minority groups</td>
<td>31%</td>
</tr>
</tbody>
</table>

**Top Supporter of Historically Black Colleges and Universities**

- U.S. Black Engineer & Information Technology Magazine
- Forbes World’s Best Employers
- Human Rights Campaign Foundation’s Corporate Equality Index Score: 85
- Forbes America’s Best Employers for Diversity
- America’s Best Employers for Diversity
- Forbes’ Best Employers

**Equal Pay Score: 100**

**Millennials Generation X Baby Boomers**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Employees</th>
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<tbody>
<tr>
<td>46%</td>
<td>(60,350 employees)</td>
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<tr>
<td>31%</td>
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<tr>
<td>19%</td>
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<td>22%</td>
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<td>42%</td>
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<td>35%</td>
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LEADERSHIP DIVERSITY
Our commitment to a diverse and inclusive workplace starts at the top and is a priority for our 12-member Board of Directors. In January 2018, the Board adopted an amendment to our Governance Principles to expressly affirm its commitment to seeking diverse director candidates, and through our combination with Andeavor, we increased the number of women on our Board. And, 50% of our Board committee chair positions are now held by individuals from traditionally underrepresented groups.

Beyond the Board, we strive to reflect diverse backgrounds, experiences and perspectives at all levels of leadership within the company. Our Officer team, composed of our most senior leaders, is dedicated to supporting, mentoring and helping to advance veterans and other diverse individuals in our workforce through professional mentoring.

The daily contributions and performance of our divisions and departments are led by our talented Senior Management Group. These leaders are among our top four pay grades by officer level, and we actively develop this highly potential internal successor candidates for officer-level positions.

As part of our commitment to diversity and facilitating equal opportunities among our senior management and officer ranks, in the spring of 2018, we implemented balanced slates during the hiring process for posted positions in our top six non-officer pay grades. This means we strove to consider at least one qualified individual from racial/ethnic minority groups or one female, either an internal or external candidate, in the final candidate pool for these job openings.

A STRATEGIC APPROACH
Our combination with Andeavor presented a unique opportunity to reevaluate our efforts as we expanded our footprint. Following the merger, we immediately enhanced our D&I strategy and assessed existing tactics for alignment and improvement opportunities. Our new, more focused strategy is built on three pillars: building awareness, increasing representation and ensuring success. Underlying each pillar is a process for accountability and measurement.

Building Awareness
Building awareness of what makes us different and unique is the first step of our strategy. We regularly host Board and Workgroup trainings, including sessions on Gender Diversity of Thought to help leaders better understand how to practice inclusive leadership and avoid unconscious bias in the hiring process. Nearly 200 leaders attended these courses.

To enhance MPC’s D&I Corps (a network of leaders from diverse communities) and improve our ongoing efforts to ensure equitable opportunities, we also developed and introduced three new diversity-focused trainings in 2018. These included a training on Diversity of Thought to help leaders better understand how to practice inclusive leadership and avoid unconscious bias in the hiring process. Nearly 200 leaders attended these courses.

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We are committed to providing a work environment that inspires and rewards the dedication and performance of our employees. Both MPC and Andeavor provided competitive compensation and offered health benefits to all eligible employees, as well as employee discounts to socials or domotics partners, and their dependents, including medical, dental and vision insurance. Other benefit programs offered by both companies included retirement programs, life insurance, education assistance, family assistance, short-term disability and paid vacation and sick time. Other benefit programs offered by both companies included life insurance, education assistance, family assistance, short-term disability and paid vacation and sick time.

Since joining us as a project engineer co-op in spring 2017, Chelsea has completed three additional co-op terms with MPC, and plans to return as a full-time employee upon graduating in June 2020. “MPC’s sincere approach and willingness to invest in its people and the work it chooses to take on, as well as its culture, are so compelling,” Chelsea says. “I was really impressed that during my first co-op term I had exposure to so many different areas of the business, from environmental aspects of post-secondary education. Through ESSA, Chelsea met recruiters from MPC, a program sponsor since 2016, and offered great hands-on experience.

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Looking forward, the engagement of our people and the strength of our culture are imperative to the success of our business and the work we do each day – and both require ongoing reinforcement and active support from our leaders. In 2018, we began work to develop a vision and strategic pillars, and to enhance our core values, to reflect our larger, stronger company, and we look forward to introducing the outcome to all our employees in 2019. Looking forward, the engagement of our people and the strength of our culture are imperative to the success of our business and the work we do each day – and both require ongoing reinforcement and active support from our leaders. In 2018, we began work to develop a vision and strategic pillars, and to enhance our core values, to reflect our larger, stronger company, and we look forward to introducing the outcome to all our employees in 2019.

Investing in our future

Chelsea Parson joined the Engineering and Science Academy (ESSA) at Michigan State University in 2016, and joined the company the following year. Since joining us as a project engineer co-op in spring 2017, Chelsea has completed three additional co-op terms with MPC, and plans to return as a full-time employee upon graduating in June 2020. “MPC’s sincere approach and willingness to invest in its people and the work it chooses to take on, as well as its culture, are so compelling,” Chelsea says. “I was really impressed that during my first co-op term I had exposure to so many different areas of the business, from environmental aspects of post-secondary education. Through ESSA, Chelsea met recruiters from MPC, a program sponsor since 2016, and offered great hands-on experience.

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INVESTING IN OUR COMMUNITIES

In order to create shared value with our stakeholders, we work to act responsibly and make real, positive impacts in the communities where we operate. We do this by providing support to 501(c)(3) nonprofit and government-related organizations and agencies in the form of foundation grants, corporate contributions and sponsorships, and through workplace giving and volunteerism.

Through our strategic combination with Andeavor and our continued commitment to creating sustainable, shared value, we continue to evolve our strategy to assess and contribute to helping all our communities thrive. We invest in our communities in three primary ways:

- **Charitable giving**, which includes through the Marathon Petroleum Foundation and other company donations.
- **Corporate and local giving**, which includes our support of local organizations and local chapters of national organizations.
- **Employee giving and volunteering**, through which we support our employee’s desire to continue making their communities better places to live and work.

Both MPC and Andeavor provided monetary support, expertise and volunteers to national and local nonprofit organizations and causes that aligned with our business priorities, values, business expertise, and geographies. Each organization focused on philanthropic activities to create long-term, strategic relationships with nonprofits and other organizations to create innovative, sustainable solutions to meet local needs.

**MPC GIVING**

MPC supports the work of United Way, an organization that shares our dedication to improving lives and strengthening communities where we live and work every day. Within these communities, we’re addressing important issues such as kindergarten readiness, workforce development and financial stability. We couldn’t create this positive impact on society without the overwhelming help and support of our employees and community partners. Together, we donated more than $2.4 million to the United Way in 2018.

MPC is a title sponsor of the Findlay Miracle League, an organization dedicated to promoting the health and well-being of individuals with disabilities. Athletes from around the nation visit Findlay, Ohio, each year to play on a field custom-designed to accommodate special-needs children, providing an astroturf surface with thick padding to ensure a safe environment for wheelchairs and for children who may have difficulty with mobility.

MPC subsidiary Speedway LLC, based in Enon, Ohio, raises funds for the Children’s Miracle Network (CMN) Hospitals, which includes canister collections at the point of sale in Speedway stores and specially themed days for employees to engage customers. Speedway holds an annual Speedway Miracle Tournament in Ohio, which in 2018 alone raised nearly $3 million and has become one of the largest golf events benefiting CMN Hospitals. In 2018, Speedway contributed more than $9.5 million to the organization. The company also committed $1 million over five years to Dayton’s Children’s Hospital to construct the Flight Gallery Atrium, which is part of the new, eight-story patient tower providing new technologies and spaces for patient activities and treatments.

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Andeavor followed the foundation model of giving and strategically focused its community investments on three core areas where it could make a positive, measurable impact: science, technology, engineering and math (STEM) education; environmental conservation/sustainability; and public safety. A sampling of the foundation’s efforts in these three categories include:

**Awarded $25,000 to the Los Angeles Harbor College (LAHC) in support of the first class of LAHC STEM scholars.**

**Awarded $100,000 grant to the Marine Mammal Care Center in Los Angeles, California, for mobile education units.**

**Contributed $50,000 to the Children’s Hospital of San Antonio Foundation’s Fasten for Life Child Safety Seat Program.**

The combination of MPC and Andeavor created the opportunity to refine and strengthen MPC’s platform for charitable investment. As part of our shared value approach to business, MPC adopted the foundation approach to serve local needs and tap into the philanthropic passions of our employees. The new Marathon Petroleum Foundation’s strategic objectives are to promote vocational and STEM education, environmental conservation and public safety.

BRINGING OUR GIVING STRATEGY TO LIFE

A Focus on STEM

MPC’s success relies on our ability to recruit and retain employees with exceptional STEM-related skills. STEM-related skills are also in high demand throughout the job market and offer rewarding careers to job seekers. Investing in STEM-related initiatives is a strategic focus area that allows us to better prepare middle school, high school and career/technical education students for professional and academic success through increasing access to high-quality educational resources and instruction.

Public Safety at MPC and in Our Communities

Health and safety is a core value at MPC and we are focused on making our communities stronger and safer places to live, work and play. We provide funding, equipment and support to first responders, government agencies and community-based organizations to increase the overall safety of the communities where we operate.

Championing Environmental Conservation/Sustainability

Environmental stewardship is another core value for MPC. We support government agencies, environmental and community groups, and trade, professional and industry associations devoted to efforts that protect, conserve and sustain our environmental resources.

Riverside High School students participate in a STEM program provided by funding from MPC’s refinery in El Paso, Texas.
EMPLOYEE GIVING AND VOLUNTEERING

Our employees embrace their role as good neighbors, and we work to support them in making a difference in their communities. We support our employees in their personal charitable donations to nonprofit organizations by supplementing gifts made by employees, retirees and directors to colleges and universities through our Matching Gifts Program. When a contribution of at least $50 is made to an accredited college or university, MPC will contribute a dollar-for-dollar match, up to $10,000 annually.

Our Volunteer Incentive Program helps to recognize and encourage employee volunteerism with community organizations by providing contributions to qualified nonprofit organizations where employees and/or their spouses volunteer their time. The program provides up to $500 annually to the organizations on behalf of employees, family members and friends.

MPC’S CINCINNATI BIOREFINING DIVISION NAMED A CORPORATE HERO BY THE UNITED WAY

In 2018, our Cincinnati Biorefining Division earned a Corporate Heroes Award from the United Way of Greater Cincinnati for the second consecutive year, recognizing their contribution of volunteer support to the organization.

In total, 72% of our Cincinnati Biorefinery’s employees devoted over 1,000 hours through both company-sponsored volunteer events and personal volunteerism. MPC’s biorefinery is the first-ever back-to-back Corporate Heroes Award winner.

ECONOMIC IMPACT IN OUR COMMUNITIES

Our business generates significant economic value and positive impact in communities where we operate and for the broader economy. With our newly integrated company in 2018 and expansion across the U.S. and Mexico, we maximized our economic impact across many communities. By the end of 2018, we employed more than 60,000 employees while paying millions of dollars in local, state and federal taxes.

FINDLAY, OHIO: A SPOTLIGHT ON OUR HOMETOWN

We value our hometown of Findlay, Ohio – where we’ve been headquartered for over a century – and work hard to be a good neighbor by making sure our hometown is a vibrant, prosperous community to live and work. Recently, we have committed millions of community investment dollars to support the local school district and University of Findlay, as well as the Marathon Center for the Performing Arts. Community investment is, and will continue to be, an integral part of our business.

LOS ANGELES REFINERY INTEGRATION PROJECT CENTERS ON COMMUNITY IMPACT

Last fall, we completed the Los Angeles Refinery Integration and Compliance Project to physically connect the adjacent Carson and Wilmington facilities, thus further integrating and upgrading the combined Los Angeles refinery for cleaner and more efficient operations. The $460 million project lead to both environmental and local community benefits, as well as operational efficiencies across the business.

Highlights from the project include:
- Created 4,000 jobs over the project lifespan, including more than 1,800 union jobs
- Generated more than $246 million in local labor income for the region
- Expected to generate an additional $86 million in tax revenues at local, state and federal levels
- Expected to lead to a $700 million revenue increase for local businesses
We believe we have an obligation to be environmentally sustainable and responsible on behalf of all our stakeholders. This is why we have invested - and continue to invest - hundreds of millions of dollars to make our operations more energy efficient, reduce our environmental impacts and emissions, and diversify our business. Working with internal and external stakeholders in communities across the country, we hold meaningful discussions, listen and take action to address their concerns. Our work gained recognition in 2018 from the U.S. Environmental Protection Agency as a leading petroleum company in energy efficiency and environmental compliance as an ENERGY STAR® Partner of the Year. We have also earned the award in 2019.

Environmental Leadership and Management

A culture that champions environmental stewardship comes from the top. That’s why, in late 2018, our Board established its Sustainability Committee to oversee sustainability practices and performance, including our annual Sustainability Report and Perspectives on Climate-Related Scenarios report.

In addition to the Sustainability Committee, our senior management team has developed a strong enterprise risk management (ERM) process for identifying, assessing and managing environmental, social and reputational risk, as well as monitoring the performance of risk-mitigation strategies.

Our Health, Environmental, Safety and Security (HES&S) Management Committee at the executive-leadership level is a critical component of our Enterprise Risk Management process. This committee meets quarterly with HES&S personnel and leadership across the enterprise to evaluate performance and to discuss strategic HES&S, corporate citizenship and public policy issues, as well as climate-related matters.

Following the 2018 strategic combination with Andeavor, we’ve been working to deploy our management systems, standards and programs enterprise-wide, as well as integrating our processes and procedures to ensure consistency of our environmental performance and standards. For more information on our operational management systems, see Page 10 of this report.

CLIMATE-RELATED RISKS

Our stakeholders expect us to consider climate-related risks, the environment and the communities where we operate. For three consecutive years, we have published our Perspectives on Climate-Related Scenarios report to provide our stakeholders a better understanding of climate-related risks. This report is based on the Task Force on Climate-related Financial Disclosures’ (TCFD’s) set of recommendations for “consistent, comparable, reliable, clear and efficient climate-related disclosures by companies.”

Our 2019 Perspectives on Climate-Related Scenarios report includes information about our scenario planning, business strategy, energy efficiency efforts and accomplishments, water management and climate resiliency. We believe our investors and other interested stakeholders, will find that the extensive disclosures in this report, our Annual Report on Form 10-K, Perspectives on Climate-Related Scenarios report and website align with the TCFD’s principles and demonstrate our financial strength, adaptiveness and resilience to climate-related risks. What’s more, the report demonstrates our industry leadership in reviewing and assessing climate-related risks while articulating our long-term strategy to enhance our business and protect the environment.
ENERGY
Energy efficiency is a vital factor in creating long-term value both for MPC and the communities where we live and work. We consider energy efficiency to be a core business function, an important responsibility and an opportunity. Energy efficiency is one of the most important factors in reducing greenhouse gases (GHGs) and other emissions.

Being more energy efficient also makes economic sense. Our energy-efficiency programs are an opportunity. Energy efficiency is one of the most cost-effective ways for us to help reduce emissions and at the same time move closer to our climate change commitments. In 2018, we expect to identify additional energy-efficiency measures, and other efforts to improve energy efficiency are reducing efforts throughout our company. One example is Speedy’s Marine organization, which is enhancing energy efficiency at all of its facilities by continuously monitoring speed and acceleration, resulting in estimated 686 tonnes of GHG emissions. Armed with this success, we also proactively installed continuous emission monitoring systems (CEMS) on our other terminals in the Eastern United States to reduce emissions of diesel particulates, nitrogen oxides and sulfur oxides. In 2018, this practice also saved almost 67,000 gallons of fuel, which avoided an emission level of more than 700,000 tons.

In addition to reducing our energy use, we have focused on diversifying our business to include natural gas gathering and processing, biofuels manufacturing and exporting, and carbon capture and sequestration. As an outcome of these efforts, we have significantly decreased the carbon intensity of our company over the past five years. Additionally, we have continued to reduce emissions of diesel particulates, nitrogen oxides and sulfur oxides.

ENERGY REDUCTION RECOGNITION
Our energy-efficiency programs have been recognized by the U.S. Environmental Protection Agency (EPA) through the ENERGY STAR® “Shining Star” and “Smartway” Programs. The EPA also recognized MPC in 2018 as an ENERGY SMART® Partner. This program is a joint effort led by the EPA and community stakeholders in recognition of outstanding energy efficiency programs. As an outcome of this program, we have reduced our energy efficiency and decreased our GHG intensity.

In 2018, we also acquired 32,376 acres of land in the Permian Basin with the purpose of developing a natural gas processing facility. This acquisition fits well with our strategy of being more energy efficient and reducing our reliance on coal. Our energy-efficiency initiatives have saved us more than $500 million in energy costs over the past 10 years. With the integration of the Andeavor refineries with MPC Refining’s Focus on Energy Program (as discussed in the GHG Emissions section, on Page 37), our energy-efficiency efforts will further reduce our energy use and lead to additional emission reductions. This initiative is expected to result in over 500,000 tonnes of avoided emissions. Our “Focus on Energy” program was established in 2014 to implement energy-saving strategies. From its inception, we have invested $75 million in energy costs since 2017. To read more about this program, please see our Perspectives on Investor Relations and in the Sustainability table in our 2018 Annual Report.

Our “Focus on Energy” program was established in 2014 to implement energy-saving strategies. From its inception, we have invested $75 million in energy costs since 2017. To read more about this program, please see our Perspectives on Investor Relations and in the Sustainability table in our 2018 Annual Report.

Other Efforts to Improve Energy Efficiency
Outside of our refinery segment, we also track and manage our energy efficiency at various other locations, such as our land-based terminals and convenience stores. In 2018, we reduced our energy use at our land-based terminals by 8.6% and reduced our energy consumption at our convenience stores by 2.1%.

In 2018, we reduced our direct and indirect GHG emissions (also referred to as “Scope 1 and 2 emissions”) intensity by 2% through GHG reduction methods such as flare reduction, actively reducing methane emissions and continuing to diversify our portfolio.

Lowers Speeds, New Fuel, Hybrid Technology
Our Marine group has been recognized by the Port of Long Beach, California, for its participation in the port’s Green Flag vessel speed reduction program. Our vessels voluntarily lower their speeds to reduce emissions of diesel particulates, nitrogen oxides and sulfur oxides. In 2018, this practice also saved almost 67,000 gallons of fuel, which avoided an estimated 686 tonnes of GHG emissions.

Additionally, our Marine organization requires non-MPC vessels that come to our Marine terminals to comply with these speed requirements. To further enhance these efforts, our vessels have switched from using fuel with 3.5% sulfur content down to fuel with 0.7% sulfur content more than one year before it was required.

ENVIRONMENTAL ENHANCEMENTS AT TRUCK TERMINALS
To further enhance these efforts, our vessels have switched from using fuel with 3.5% sulfur content down to fuel with 0.7% sulfur content more than one year before it was required.
REDUCING METHANE EMISSIONS
Within our natural gas gathering and processing operations, we actively work to reduce fugitive methane emissions – known as unintended methane leakage – from our systems. As part of an agreement with the U.S. EPA, we have developed new technologies, increased monitoring systems and modified our operations practices to effectively lower fugitive methane emissions. One new technology includes a redesigned pipeline launching and receiving station that maximizes emissions by as much as 91% when it is used, which equates to an estimated 1000 tonnes of methane emissions avoided per year. As agreed with the EPA, we have shared our innovative launching and receiving station designs with others in our industry to promote additional methane reductions. We also deployed specially designed emission collection systems for our pipelines that allow the gases to be reused rather than flared, resulting in reduced emissions and flaring.

FLARE REDUCTION STRATEGY
Flares are essential safety equipment that combust excess gases that are unable to be recovered. Flaring is, however, something we try to avoid where possible. To do so, we have a flare reduction program that helps us to prevent flaring, recover gases and ensure effective combustion, if gases must be flared.

In 2018, we completed a multiyear project to install flare-gas recovery systems at our refineries, with a total project cost of more than $500 million. Flare-gas recovery systems recover gas that has entered the flare system, so it can be used as fuel within the refinery rather than being burned in the flare. Recovering these gases reduces the need to purchase natural gas, lowering GHG and pollutant emissions.

Since 2014, we have recovered more than 41 billion cubic feet of gases and avoided approximately 1.7 million tonnes of GHG emissions. In 2018 alone, we have avoided more than 500,000 tonnes of GHG emissions due to the flare-gas recovery systems. We estimate that our flare-reduction program has resulted in more than a 90% reduction in emissions of volatile organic compounds and a nearly 60% reduction in GHG emissions from flares.

AIR QUALITY AND EMISSIONS
Air quality is important to our business and our stakeholders, including the local communities where we operate. We are committed to implementing programs and strategies that improve air quality.

Since 2002, our facilities reduced emissions of criteria pollutants (six pollutants defined and tracked by the U.S. EPA) by 42% - more than 44,000 tons. In 2018, we continued this trend. Criteria pollutants we track and report include sulfur dioxide, nitrogen oxides, carbon monoxide, volatile organic compounds (VOC) and particulate matter.

Air Emissions
Air emissions are a byproduct of crude oil refining and gas- processing operations and are also generated at logistics facilities in loading, unloading, transporting and storing crude oil and refined products. We monitor track and report our emissions in accordance with federal and state laws and regulations. We have also implemented a variety of programs and projects to reduce air emissions and improve air quality.

We have invested over $1 billion since 2002 to achieve our criteria pollutant emissions reductions. We are also making ongoing improvements within our natural gas gathering and processing operations designed to further reduce emissions.
Our business operates vessels, pipelines and facilities where releases of oil and other hazardous substances could potentially occur. We strive to achieve zero spills of crude oil, petroleum products and other materials. We work continuously to prevent spills through operational practices and technology, and we plan and practice spill response to be prepared in the event a release occurs.

Regulations require us to maintain emergency plans at our facilities so that we are prepared to respond in the event of an oil or hazardous substance release. Our Oil Spill Response Plan (OSP) is reviewed and approved by various agencies, such as the U.S. Coast Guard and the Pipeline and Hazardous Materials Safety Administration. We above and beyond in planning and preparing in the event of spills so we can act swiftly, safely and effectively.

An important component of our preparedness efforts includes conducting simulation and training exercises. Our emergency response team conducts 40 regional simulation exercises and 40 regional equipment deployment simulations. These events are an opportunity for us to exercise and update our response skills. In addition, each of our business units maintains on-site emergency preparedness teams that train, exercise and drill commensurate with the potential risks and consequences of a release from each site.

Pipeline Integrity Management
To ensure the integrity and safety of our pipelines, we use comprehensive integrity management practices to address the various risks to the pipelines. The risks may include third-party damage, operator error, equipment failure or weather events.

Our asset-integrity management program for our pipelines is a variety of monitoring programs, condition assessment, and emergency response planning.

It includes an operator-qualification program, design and construction standards to meet and exceed various regulatory compliance requirements, ongoing equipment inspection and maintenance, and public awareness and stakeholder engagement, among others. More information about these programs can be found at marathontp.com.

We work hard to prevent pipeline incidents. When an incident does occur, we respond in a responsible way to stop the leak, shut down the pipeline and isolate the release. We work closely with federal agencies and local governments to address and investigate the incident, and then we take lessons learned to inform our continuous improvement efforts.

WASTE AND HAZARDOUS WASTE
In refining, transportation, and marketing petroleum fuels, both nonhazardous and hazardous wastes are generated. MPC’s environmental engineers work with our operations planners to focus on safely managing the wastes we generate. We carefully contain and label drums, boxes, bins and roll-off containers; work to minimize the waste we generate; create, recycle or beneficially use waste such as oil additive residues or other waste as much of the waste as possible. We work to ensure that our waste materials are used to properly permitted waste disposal and recycling facilities. We review and ensure the record of compliance with state and federal waste disposal regulations. The volume of waste generated in any given year varies significantly, as it is highly dependent on scheduled maintenance and remediation activity.

Reducing the amount of waste we produce carries both financial and environmental benefits. As such, we continually work to reduce the volume of waste generated, while seeking alternative options for disposal, such as beneficial reuse, recycling and reclamation. One example is the installation of thermal desorption units (TDUs) at our Garyville, Louisiana, Robinson, Illinois, and Enid, Oklahoma refineries. In addition, we conduct a rigorous review of every waste or byproduct stream to assess the potential to reuse or recycle waste materials and other materials that might otherwise need to use in their process. In addition, sand, sediment, iron scale or other material in the fuel we refine can be repurposed. For example, the derived fuel blend from our waste reduces the amount of coal the cement manufacturers otherwise need to use in their process. In addition, we also avoid sending the waste to landfill as we sell the waste to refineries as fuel into cement, cement manufacturers have reduced the amount of coal they burn by over 32,000 tons.

We work with our operations planners to focus on waste generated. MPC’s environmental engineers plan, review and approve waste disposal sites and programs for the company. MPC’s waste management team is responsible for ensuring that our waste materials are removed on a timely basis.

THE AMOUNT OF WASTE REQUIRING OFF-SITE DISPOSAL
We also actively manage waste on- and off-site to recover all the waste in the refining process and reduce the amount of waste being treated or disposed of. In addition, we explore and employ recycling and related processes that (a) contribute to improving equipment usage, (b) reduce the volume of material to be disposed of (e.g., thermal desorption to recover volatile vapors so that they can be condensed back to feed blend, and (c) transform recovered and recycle oil waste as fuel and solid waste to be burned as feedstock. When we generate 2,600 tons (3,483,181 gallons) of waste, which we tried to reduce into the refining process to be burned into transportation fuel.

WASTE MINIMIZATION TO REDUCE THE AMOUNT OF WASTE REQUIRING OFF-SITE DISPOSAL
We also actively manage waste on- and off-site to recover all the waste for the refining process and release the total amount of waste using other processes or disposal. One example is the installation of thermal desorption units (TDUs) at (1) contributing to improving equipment usage, (b) reduce the volume of material to be disposed of (e.g., thermal desorption to recover volatile vapors so that they can be condensed back to feed blend, and (c) transform recovered and recycle oil waste as fuel and solid waste to be burned as feedstock. When we generate 2,600 tons (3,483,181 gallons) of waste, which we tried to reduce into the refining process to be burned into transportation fuel.

Environment
Managing Our Water

Water is an essential resource to our business and managing it responsibly is critical to our operations, the communities where we operate and the environment. Water is used to add heat to the process (as steam), remove heat from the process (as cooling water), remove salts and impurities from crude oil, protect equipment from corrosion, generate hydrogen and clean equipment during maintenance activities.

With our recent acquisitions, we have additional operations located in water-stressed areas that are projected to become more stressed by mid-century due to population growth, changing climate and rainfall patterns. We monitor information sources such as the National Climate Assessment, Aqueduct Water Risk Atlas and real-time government drought data to identify which operating locations are in current and future water-stressed areas, so we can effectively focus resources accordingly.

Managing Water in Water-stressed Regions

The availability of clean fresh water is vital to our operations located in water-stressed areas that are projected to become more stressed by mid-century due to population growth, changing climate and rainfall patterns. We monitor information sources such as the National Climate Assessment, Aqueduct Water Risk Atlas and real-time government drought data to identify which operating locations are in current and future water-stressed areas, so we can effectively focus resources accordingly.

Managing Wastewater

MPC’s wastewater standards are established by the EPA and state regulatory agencies, which require that we obtain permits for wastewater discharges. We monitor the water we discharge to ensure we are meeting the standards reflected in these permits and report monthly to relevant regulatory agencies.

We actively track wastewater discharge to publicly owned treatment works (POTW), surface water and injection wells, and look for ways to reuse wastewater wherever possible. In the instances we are unable to recycle wastewater, we properly treat it before releasing it back into the environment. Wastewater discharged from our operations must meet strict quality standards.

Managing Energy

Within our Refining organization, we are developing a Related Scenarios report. These scenarios are designed to reflect the standards reflected in the permits and report monthly to relevant regulatory agencies.

Related Scenarios report.

Managing Energy

Related Scenarios report.

Managing Water

Managing Wastewater

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Renewable Energy and Products

Over the years, we have made significant investments in the production and blending of renewable fuel sources and the research and development of new technology as part of our overall business strategy. Renewable products help MPC meet our compliance requirements but more importantly drive the continued improvement in fueling our nation and the world. Providing renewable transportation fuel—such as biodiesel—helps MPC meet our compliance requirements and helps to reduce greenhouse gas emissions. Providing renewable transportation fuel—such as biodiesel—helps MPC meet our compliance requirements and helps to reduce greenhouse gas emissions.

Renewable Production

Through various operations and collaborations, we currently produce several forms of renewable fuel and blendstocks—products that are blended into gasoline or diesel fuel prior to being sold. We produce approximately 410 million gallons of corn ethanol annually through joint ownership in three plants. We also own and operate a biodiesel plant that uses soybean oil as a feedstock.

In 2018, we completed a retrofit of a unit at our Dickinson, North Dakota, refinery to allow for the co-processing of renewable feedstock and regionally sourced Bakken crude oil, enabling the production of a 5% renewable diesel blend. Encouraged by this success, we made the final decision to complete the full conversion of the refinery’s production to renewable diesel.

Technology Advancement

With the aim of developing lower-carbon renewable products, we are working with several early-stage renewable companies. To support efficient and competitive renewable development, we are fostering technologies that will leverage our existing integrated refinery infrastructure to develop high-quality, low-carbon, infrastructure-compatible renewable products that can be blended seamlessly with traditional fuels for use in vehicles on the road today.

A wholly-owned subsidiary, Virent, is focused on developing a commercial facility to produce cost-effective, low-carbon, bio-based fuels and bio-paraxylene (a key raw material used in the production of bio-polyesters). We also are continuing a cooperative effort to develop the first commercial facility to process separated municipal solid waste to produce a biofeedstock, which we intend to co-process at our Martinez, California, refinery along with traditional refinery feedstock.

Soybeans will be the key ingredient of MPC’s planned renewable diesel plant in Dickinson, North Dakota.

Performance Data

Company Performance

<table>
<thead>
<tr>
<th>Metric</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales and other operating revenue $mm</td>
<td>97,817</td>
<td>72,051</td>
<td>63,339</td>
<td>74,733</td>
<td>96,504</td>
</tr>
<tr>
<td>Income from operations $mm</td>
<td>9,169</td>
<td>8,768</td>
<td>7,366</td>
<td>8,586</td>
<td>10,206</td>
</tr>
<tr>
<td>Net income attributable to MPC $mm</td>
<td>2,824</td>
<td>2,812</td>
<td>1,171</td>
<td>3,422</td>
<td>7,260</td>
</tr>
<tr>
<td>Capital expenditures and investments $mm</td>
<td>8,158</td>
<td>16,283</td>
<td>3,059</td>
<td>3,106</td>
<td>4,304</td>
</tr>
<tr>
<td>Environmental expenditures $mm</td>
<td>351</td>
<td>630</td>
<td>983</td>
<td>792</td>
<td>967</td>
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OPERATIONAL PERFORMANCE

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<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td>Manufacturing inputs(2) million boe</td>
<td>1,358</td>
<td>1,522</td>
<td>1,588</td>
<td>1,669</td>
<td>1,717</td>
</tr>
<tr>
<td>Refining million boe</td>
<td>1,026</td>
<td>1,055</td>
<td>1,075</td>
<td>1,107</td>
<td>1,111</td>
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<tr>
<td>Midstream gas plants million boe</td>
<td>332</td>
<td>466</td>
<td>515</td>
<td>542</td>
<td>606</td>
</tr>
<tr>
<td>Refining crude oil capacity utilization percent</td>
<td>90</td>
<td>93</td>
<td>90</td>
<td>97</td>
<td>94</td>
</tr>
</tbody>
</table>
### Greenhouse Gas Emissions

<table>
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<tr>
<th>Metric</th>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total company direct and energy indirect GHG emissions million tonnes CO2e</td>
<td>42.2</td>
<td>43.9</td>
<td>45.2</td>
<td>44.2</td>
<td>44.4</td>
</tr>
<tr>
<td><strong>Scope 1 direct GHG emissions</strong> million tonnes CO2e</td>
<td><strong>35.3</strong></td>
<td>36.1</td>
<td>36.9</td>
<td>37.0</td>
<td>36.4</td>
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<tr>
<td>CO2 (carbon dioxide) million tonnes CO2</td>
<td>34.6</td>
<td>35.1</td>
<td>35.9</td>
<td>35.9</td>
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<tr>
<td>CH4 (methane) thousand tonnes CH4</td>
<td>22.4</td>
<td>26.2</td>
<td>30.7</td>
<td>26.1</td>
<td>26.1</td>
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<tr>
<td>N2O (nitrous oxide) thousand tonnes N2O</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.2</td>
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<tr>
<td><strong>Scope 2 energy indirect GHG emissions</strong> million tonnes CO2e</td>
<td><strong>8.9</strong></td>
<td>7.8</td>
<td>8.2</td>
<td>8.1</td>
<td>8.0</td>
</tr>
<tr>
<td>CO2 (carbon dioxide) million tonnes CO2</td>
<td>3.7</td>
<td>4.0</td>
<td>4.4</td>
<td>4.4</td>
<td>4.4</td>
</tr>
<tr>
<td>CH4 (methane) thousand tonnes CH4</td>
<td>2.7</td>
<td>2.2</td>
<td>2.2</td>
<td>2.2</td>
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</tr>
<tr>
<td>N2O (nitrous oxide) thousand tonnes N2O</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
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<tr>
<td><strong>Total GHG emissions</strong> million tonnes CO2e</td>
<td>42.2</td>
<td>43.9</td>
<td>45.2</td>
<td>44.2</td>
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### Air Emissions

<table>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Total MPC criteria pollutant emissions thousand tons</td>
<td>61.6</td>
<td>64.5</td>
<td>64.2</td>
<td>66.2</td>
<td>61.7</td>
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<tr>
<td>SOx (oxides of sulfur) thousand tons</td>
<td>6.3</td>
<td>4.8</td>
<td>3.7</td>
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<tr>
<td>NOx (oxides of nitrogen) thousand tons</td>
<td>19.8</td>
<td>16.3</td>
<td>16.1</td>
<td>16.4</td>
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<tr>
<td>CO (carbon monoxide) thousand tons</td>
<td>14.0</td>
<td>15.0</td>
<td>15.3</td>
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<td>14.9</td>
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<tr>
<td>VOC (volatile organic compounds) thousand tons</td>
<td>17.8</td>
<td>18.0</td>
<td>18.6</td>
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<tr>
<td>PM10 (particulate matter, less than 10 microns) thousand tons</td>
<td>4.0</td>
<td>3.9</td>
<td>3.9</td>
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<tr>
<td>Total MPC criteria pollutant intensity tons/million boe</td>
<td>44.3</td>
<td>42.4</td>
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<td>13.4</td>
<td>13.4</td>
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<tr>
<td>CO tons/million boe</td>
<td>9.4</td>
<td>8.6</td>
<td>8.8</td>
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<tr>
<td>VOC tons/million boe</td>
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<tr>
<td>Midstream natural gas gathering &amp; processing criteria pollutant emissions thousand tons</td>
<td>12.3</td>
<td>17.8</td>
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<td>SOx thousand tons</td>
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<tr>
<td>NOx thousand tons</td>
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<td>8.5</td>
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<tr>
<td>CO thousand tons</td>
<td>2.8</td>
<td>4.1</td>
<td>4.3</td>
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<td>5.1</td>
<td>5.1</td>
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<td>4.9</td>
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<tr>
<td>PM10 thousand tons</td>
<td>0.2</td>
<td>0.3</td>
<td>0.4</td>
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<td>Midstream natural gas gathering &amp; processing criteria pollutant intensity tons/million boe</td>
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<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
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<tr>
<td>NOx tons/million boe</td>
<td>15.2</td>
<td>16.4</td>
<td>16.1</td>
<td>15.9</td>
<td>14.0</td>
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<tr>
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<td>8.5</td>
<td>8.8</td>
<td>9.1</td>
<td>9.1</td>
<td>6.4</td>
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<tr>
<td>VOC tons/million boe</td>
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<td>12.1</td>
<td>11.4</td>
<td>11.8</td>
<td>9.5</td>
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<tr>
<td>PM10 tons/million boe</td>
<td>0.7</td>
<td>0.7</td>
<td>0.7</td>
<td>0.8</td>
<td>0.9</td>
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<tr>
<td>Midstream logistics and storage and other criteria pollutant emissions thousand tons</td>
<td>5.8</td>
<td>5.7</td>
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<tr>
<td>SOx thousand tons</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
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</tr>
<tr>
<td>NOx thousand tons</td>
<td>1.8</td>
<td>1.8</td>
<td>1.6</td>
<td>1.9</td>
<td>1.9</td>
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<tr>
<td>CO thousand tons</td>
<td>3.6</td>
<td>3.4</td>
<td>3.2</td>
<td>3.4</td>
<td>3.4</td>
</tr>
<tr>
<td>VOC thousand tons</td>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>PM10 thousand tons</td>
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### Performance Data

#### WATER

<table>
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<tr>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tbody>
<tr>
<td><strong>WATER</strong> (7)</td>
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<tr>
<td>Water withdrawal million cubic meters (m³)</td>
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<td>143</td>
<td>145</td>
<td>146</td>
<td>148</td>
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<tr>
<td>Freshwater withdrawal million m³</td>
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<td>142</td>
<td>145</td>
<td>146</td>
<td>148</td>
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<tr>
<td>Municipal water million m³</td>
<td>50</td>
<td>42</td>
<td>44</td>
<td>44</td>
<td>46</td>
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<tr>
<td>Groundwater million m³</td>
<td>17</td>
<td>22</td>
<td>22</td>
<td>21</td>
<td>20</td>
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<tr>
<td>Surface water million m³</td>
<td>74</td>
<td>78</td>
<td>91</td>
<td>91</td>
<td>92</td>
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<tr>
<td><strong>Reclaimed water used</strong> (8)</td>
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<td>7</td>
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<td><strong>Wastewater discharge</strong></td>
<td>78</td>
<td>74</td>
<td>76</td>
<td>75</td>
<td>79</td>
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<tr>
<td>Freshwater withdrawal intensity million m³/mboe input</td>
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<td>91</td>
<td>98</td>
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<td>Municipal water million m³</td>
<td>21</td>
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<tr>
<td>Groundwater million m³</td>
<td>17</td>
<td>22</td>
<td>22</td>
<td>21</td>
<td>20</td>
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<tr>
<td>Surface water million m³</td>
<td>73</td>
<td>78</td>
<td>91</td>
<td>91</td>
<td>92</td>
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<tr>
<td><strong>Wastewater discharge intensity</strong> million m³/mboe input</td>
<td>54</td>
<td>46</td>
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<td>46</td>
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#### WASTE & HAZARDOUS WASTE

<table>
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<tr>
<th>Metric</th>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td>Hazardous waste generated and not recycled thousand tons</td>
<td>22</td>
<td>22</td>
<td>20</td>
<td>24</td>
<td>16</td>
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<tr>
<td>Nonhazardous waste generated and not recycled thousand tons</td>
<td>387</td>
<td>462</td>
<td>455</td>
<td>452</td>
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<tr>
<td>Hazardous waste recycled thousand m³</td>
<td>279</td>
<td>217</td>
<td>240</td>
<td>193</td>
<td>210</td>
</tr>
<tr>
<td><strong>OIL SPILLS &gt; 1 BBL</strong> (9)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oil spilled to land bbl</td>
<td>15,644</td>
<td>1,345</td>
<td>3,486</td>
<td>3,922</td>
<td>2,223</td>
</tr>
<tr>
<td>Count of oil spills &gt; 1 bbl</td>
<td>117</td>
<td>114</td>
<td>115</td>
<td>111</td>
<td>158</td>
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<tr>
<td>Oil spilled to water bbl</td>
<td>376</td>
<td>2,9</td>
<td>877</td>
<td>49</td>
<td>1,473</td>
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<tr>
<td>Count of water spills &gt; 1 bbl</td>
<td>17</td>
<td>12</td>
<td>17</td>
<td>28</td>
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#### ENERGY USE

<table>
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<th>2016</th>
<th>2017</th>
<th>2018</th>
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<tr>
<td><strong>ENERGY USE</strong></td>
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</tr>
<tr>
<td>Total energy use billion gigajoules</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
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<tr>
<td>Refining billion gigajoules</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
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<tr>
<td>Midstream G&amp;P billion gigajoules</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
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<tr>
<td>Energy intensity gigajoules/boe processed</td>
<td>0.4</td>
<td>0.4</td>
<td>0.4</td>
<td>0.4</td>
<td>0.4</td>
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<tr>
<td>Avoided energy consumption from efficiency efforts million gigajoules</td>
<td>17.6</td>
<td>19.1</td>
<td>20.5</td>
<td>18.6</td>
<td>20.7</td>
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<tr>
<td>TIER 2, 3 AND 4 DESIGNATED ENVIRONMENTAL INCIDENTS (DEIs)(10)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Count of Tier 2, 3 and 4 DEIs</td>
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<td>124</td>
<td>177</td>
<td>176</td>
<td>220</td>
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<td>Tier 2 DEIs Count</td>
<td>175</td>
<td>80</td>
<td>80</td>
<td>67</td>
<td>93</td>
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<tr>
<td>Tier 3 and 4 DEIs Count</td>
<td>50</td>
<td>44</td>
<td>39</td>
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#### CERTIFIED WILDLIFE HABITATS

<table>
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<th>2015</th>
<th>2016</th>
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<td>Number of Wildlife Habitat Council (WHC) certified habitats maintained by MPC Count</td>
<td>20</td>
<td>20</td>
<td>21</td>
<td>21</td>
<td>23</td>
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<tr>
<td>Total Acres of land Acres</td>
<td>1,289</td>
<td>1,284</td>
<td>1,327</td>
<td>1,352</td>
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#### Workforce

<table>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
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<tbody>
<tr>
<td><strong>Workforce</strong></td>
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<td></td>
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<tr>
<td>Total workforce** employees</td>
<td>45,240</td>
<td>45,440</td>
<td>45,640</td>
<td>45,840</td>
<td>46,040</td>
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<tr>
<td>Women percent</td>
<td>50</td>
<td>51</td>
<td>50</td>
<td>50</td>
<td>46</td>
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<tr>
<td>Racial/ethnic minority groups percent</td>
<td>27</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>31</td>
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<tr>
<td>Workforce excluding Speedway employees</td>
<td>9,840</td>
<td>11,960</td>
<td>11,960</td>
<td>11,960</td>
<td>11,960</td>
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<tr>
<td>Women percent</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>19</td>
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<tr>
<td>Racial/ethnic minority groups percent</td>
<td>12</td>
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<tr>
<td><strong>Total hires</strong> employees</td>
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<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>Women percent</td>
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<td>Racial/ethnic minority groups percent</td>
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<td>Unionized employees employees</td>
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### Personal Safety Performance(1)

<table>
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<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Contractor Count per 200,000 hours worked</td>
<td>0.46</td>
<td>0.39</td>
<td>0.33</td>
<td>0.28</td>
<td>0.32</td>
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<tr>
<td></td>
<td>Employee Count</td>
<td>41</td>
<td>68</td>
<td>70</td>
<td>55</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>Midstream Count</td>
<td>57</td>
<td>95</td>
<td>89</td>
<td>110</td>
<td>130</td>
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<tr>
<td></td>
<td>Contractor Count per 200,000 hours worked</td>
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<td>0.10</td>
<td>0.07</td>
<td>0.07</td>
<td>0.07</td>
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<tr>
<td></td>
<td>Employee Count</td>
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<td>665</td>
<td>682</td>
<td>612</td>
<td>680</td>
</tr>
<tr>
<td></td>
<td>Midstream Count</td>
<td>532</td>
<td>669</td>
<td>683</td>
<td>612</td>
<td>681</td>
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<td>Contractor Count per 200,000 hours worked</td>
<td>12.69</td>
<td>1.38</td>
<td>1.32</td>
<td>0.00</td>
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<td>Employee Count</td>
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<td>38</td>
<td>45</td>
<td>37</td>
<td>25</td>
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<td></td>
<td>Midstream Count</td>
<td>16</td>
<td>27</td>
<td>19</td>
<td>55</td>
<td>96</td>
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<td>Contractor Count per 200,000 hours worked</td>
<td>0.82</td>
<td>1.19</td>
<td>0.93</td>
<td>0.73</td>
<td>0.45</td>
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<td>Employee Count</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
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<td></td>
<td>Midstream Count</td>
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</table>

### Process Safety Performance(2)

<table>
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<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tier 1 Refining</td>
<td>Total (Tier 1 Count / Total Work Hours) &gt; 200,000</td>
<td>0.06</td>
<td>0.09</td>
<td>0.04</td>
<td>0.05</td>
<td>0.05</td>
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<tr>
<td>Tier 1 Midstream(3)</td>
<td>Total (Tier 1 Count / Total Work Hours) &gt; 200,000</td>
<td>0.07</td>
<td>0.02</td>
<td>0.00</td>
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<td>0.07</td>
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<tr>
<td>Tier 2 Refining</td>
<td>Total (Tier 2 Count / Total Work Hours) &gt; 200,000</td>
<td>0.21</td>
<td>0.22</td>
<td>0.16</td>
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<tr>
<td>Tier 3 Midstream(3)</td>
<td>Total (Tier 2 Count / Total Work Hours) &gt; 200,000</td>
<td>0.13</td>
<td>0.14</td>
<td>0.14</td>
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</tr>
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</table>

#### Notes

1. As reported in the MPC 2018 Annual Report on Form 10-K.
2. Includes data from facilities that MPC did not yet own, so that performance can be compared across the same asset base over time. Assets included are those which MPC operationalized as of Dec. 31, 2018, unless otherwise noted.
3. Environmental performance reported for facilities of which MPC has operational control.
4. Includes Tier 1 Midstream (Total Tier 1 Count / Total Work Hours) > 200,000. Tier 1 Midstream Excludes Speedway and employees who joined through our strategic combination with Andeavor.
5. Includes Refining and Midstream business segments.
6. Includes purchased treated wastewater and water re-used within the organization (e.g., filtering and recycling re-use for refinery wastewater effluent).
7. Includes Refining and Midstream business segments.
8. Includes purchased treated wastewater and water re-used within the organization (e.g., filtering and recycling re-use for refinery wastewater effluent).
9. Includes Refining and Midstream business segments.
10. Includes Refining and Midstream business segments.
11. Excludes Speedway and employees who joined through our strategic combination with Andeavor.
12. Tier 1 Refining Excludes Speedway and employees who joined through our strategic combination with Andeavor.
Glossary

**Gigajoule**: A measurement unit of energy. One gigajoule is roughly equivalent to 36 million British thermal units. It is approximately 5.8 million British thermal units.

** tonne**: It is one of the SI base units and is equal to 1000 kg. It is used in the United Kingdom and in Commonwealth countries to measure mass.

**British thermal unit**: A measure of heat energy often used to quantify the energy in different types of fuel. For example, gasoline has 208.32 Btu per gallon; diesel oil and kerosene have 140,000 Btu per gallon; natural gas has 1,000,000 Btu per thousand cubic feet.

**Carbon dioxide equivalent**: Because various greenhouse gases have heat-trapping effects that are stronger or weaker than carbon dioxide (CO2), they are often expressed as the equivalent amount of CO2 to provide a consistent measure. This is done by multiplying the mass of each greenhouse gas by a factor that takes into account its warming effect relative to that of CO2 over a specified period.

**PSE**: Process safety event. These are unplanned or uncontrolled releases of materials that can result in property damage, injury or death.

**OSHA recordable incident rate**: An OSHA term representing the number of work-related injuries and illnesses for every 200,000 work hours.

**Energy STAR®**: An independent international organization that provides standards on sustainability reporting.

**IPIECA** (International Petroleum Industry Environmental Conservation Association): The global oil and gas industry's association for advancing environmental and social performance.

**EPA** (U.S. federal government’s Environmental Protection Agency): The U.S. federal government’s Environmental Protection Agency.

**MPC** (Marathon Petroleum Corporation): A U.S. publicly traded company engaged in the exploration, production, transportation, refining, marketing, and distribution of hydrocarbons.

**RC14001®**: A management system that combines Responsible Care with ISO 14001 for environmental management. It is tasked with planning, executing, monitoring and continuously improving the company’s performance in these critical areas.

**G&R** (Greenhouse Gas and Reporting Initiative): An independent international organization that provides standards on sustainability reporting.

**MBOE (Million Barrels of Oil Equivalent)**: The energy output of a million barrels of oil.

**BOE (Barrels of Oil Equivalent)**: The energy output of barrels of oil.

**BCG** (Barrels of Condensate Equivalent)**: The energy output of barrels of condensate.

**G&P** (Gas and Petroleum)**: Natural gas gathering and processing.

**BBL** (Barrel of Oil): A unit of measure for oil.

**MMBtu** (Million BTU): A unit of measure for heat energy.

**MMBBL** (Million Barrels of Oil)**: A unit of measure for oil.

**MMBPD** (Million Barrels of Oil Per Day): A unit of measure for oil production.

**MPC’s Health, Environment, Safety & Security organization, which we report in this publication, are the most serious PSEs.**

**LOPC**: Loss of primary containment (LOPC). A management system that combines Responsible Care with ISO 14001 for environmental management. It is tasked with planning, executing, monitoring and continuously improving the company’s performance in these critical areas.

**Safe harbor**: Parties must report to OSHA all injuries that are lost workday injuries, illness or fatality, within 8 hours of when it was first known that the injury or illness occurred. The reporting of these events is a federal requirement.

**MPC’s refinery in Dickinson, North Dakota.**
MPC employees volunteer at Bonita Elementary School in Los Angeles.