

About This Report

MPC and MPLX's 2022 Sustainability Report reflects our long-standing commitment to transparency and accountability around the environmental, social and governance dimensions of our business. We have publicly reported on these matters since 2011, and this report communicates our sustainability strategy and performance in reference to the Sustainability Accounting Standards Board (SASB) metrics and Global Reporting Initiative (GRI) Standards, as well as other recognized reporting frameworks.

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

MPC – marathonpetroleum.com/sustainability

MPLX – mplx.com/sustainability

Reporting Frameworks

SASB

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

GRI

This report has been prepared with reference to the Global Reporting Initiative (GRI) Sector Standard for Oil and Gas.

IPIECA

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

TCFD

We annually publish a separate risk assessment report that follows guidelines set forth by the Financial Stability Board Task Force on Climate-related Financial Disclosures (TCFD).

[Click here](#) for our latest [Perspectives on Climate-Related Scenarios](#) report.

REPORTING FRAMEWORK CROSS-REFERENCE

See Reporting Framework Cross-Reference for mapping of our most significant reporting topics to SASB and GRI standards, as well as Ipieca indicators.

[Click here](#) to view the external assurance statement from LRQA relating to our GHG data.

Scope of Report

The information and data in this report covers all MPC entities, including MPLX LP, for the calendar year 2022, unless otherwise indicated.

Data Quality

Due to rounding, numbers presented throughout the performance data table may not add up to the totals provided and percentages may not precisely reflect the rounded numbers. Prior year data may have been updated to reflect better data availability, consistency, etc. Data included has been reviewed by MPC's Internal Audit organization. In addition, we engaged an independent third party, LRQA, to provide independent assurance of our Scope 1, Scope 2 and Scope 3 - Category 11 GHG emissions and Scope 1 and Scope 2 GHG emissions intensity data.

[Click here](#) to view the external assurance statement from LRQA relating to our GHG data.

Performance Data

Company Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Economic Performance⁽¹⁾									
Sales and Other Operating Revenue	\$ millions	-	201-1a.i	-	96,504	123,949	69,779	119,983	177,453
Income from Operations	\$ millions	-	-	-	5,571	5,576	(12,247)	4,300	21,469
Net Income Attributable to MPC	\$ millions	-	201-1a.iii	-	2,780	2,637	(9,826)	9,738	14,516
Capital Expenditures and Investments (excludes acquisitions)	\$ millions	-	-	-	4,304	6,133	2,754	1,815	2,788
Environmental Expenditures (capital and expense) ⁽²⁾⁽³⁾	\$ millions	-	-	-	957	1,213	630	991	1,226
Operational Performance⁽⁴⁾									
MPC Manufacturing Inputs	million boe	-	-	-	1,717	1,817	1,627	1,682	1,741
Refining Manufacturing Inputs	million boe	EM-RM-000.A	-	-	1,111	1,142	940	1,012	1,068
MPLX Gas Plant Manufacturing Inputs	million boe	-	-	-	605	675	687	670	673
Crude Oil Refining Capacity	thousand bpcd	EM-RM-000.B	-	-	3,021	3,067	2,874	2,887	2,898
Natural Gas Gathering Volumes	million cubic feet per day	EM-MD-000.A	-	-	-	5,967	5,331	5,131	5,684
MPLX Crude and Refined Products Transported	thousand bpd	-	-	-	-	5,114	4,712	5,453	5,660
MPLX Crude Oil Transported	thousand bpd	EM-MD-000.A	-	-	-	3,228	2,998	3,380	3,549
MPLX Refined Products Transported	thousand bpd	EM-MD-000.A	-	-	-	1,886	1,714	2,073	2,111
Total Addressable Market for Advanced Biofuels and Associated Infrastructure	\$ billions	EM-RM-410a.2	-	-	-	2.8	3.7	8.4	10.2
Market Share of Total Addressable Market for Advanced Biofuels and Associated Infrastructure ⁽⁵⁾	%	EM-RM-410a.2	-	-	-	2	2	5	4.5

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2018	2019	2020	2021	2022
Greenhouse Gas Emissions⁽⁴⁾⁽⁶⁾									
Total Scope 1 and Scope 2 GHG Emissions	million tonnes CO ₂ e	-	-	CCE-4 - C1	45.2	45.0	40.2	39.9	40.4
Scope 1 and 2 GHG Intensity (excludes GHG associated with exported power from cogen)	tonnes CO ₂ e/mboe input	-	305-4a	CCE-4 - C4	25.3	23.8	23.7	22.9	22.4
Total Scope 1 and 2 GHG Intensity Reduction Since 2014	%	-	305-5a	-	-15	-21	-21	-23	-25
Total Scope 1 GHG Emissions⁽⁷⁾⁽⁸⁾	million tonnes CO ₂ e	-	305-1a	CCE-4 - C1	37.0	36.8	32.2	33.0	33.7
Total Scope 1 CO ₂ Emissions	million tonnes CO ₂	-	-	CCE-4 - C1	36.2	35.9	31.3	32.2	33.1
Total Scope 1 CH ₄ Emissions	thousand tonnes CH ₄	-	-	CCE-4 - C1	29	31.7	32.7	23.5	22.8
Total Scope 1 N ₂ O Emissions	thousand tonnes N ₂ O	-	-	CCE-4 - C1	0.2	0.2	0.2	0.2	0.2
Total Scope 1 SF ₆ and Tracer Emissions	tonnes SF ₆ and tracer	-	-	CCE-4 - C1	2	1	0	9	0
Refining Scope 1 GHG Emissions	million tonnes CO ₂ e	EM-RM-110a.1	-	CCE-4 - C3	31.6	31.0	26.7	27.5	28.3
Refining Scope 1 GHG Covered by Emissions-limiting Regulation ⁽⁹⁾	%	EM-RM-110a.1	-	-	28	27	25	23	23
MPLX Scope 1 GHG Emissions⁽¹⁰⁾	million tonnes CO ₂ e	EM-MD-110a.1	-	CCE-4 - C3	5.4	5.7	5.4	5.5	5.4
MPLX Scope 1 GHG Emissions from Methane (CO ₂ e basis)	%	EM-MD-110a.1	-	-	11	11	13	8	8
MPLX Scope 1 GHG Covered by Emissions-limiting Regulation	%	EM-MD-110a.1	-	-	-	< 2	< 2	< 1	< 1
MPLX G&P Scope 1 Methane Emissions Intensity	%	-	-	-	0.026	0.026	0.029	0.020	0.018
Total Scope 2 GHG Emissions⁽¹¹⁾	million tonnes CO ₂ e	-	305-2a	CCE-4 - C2	8.2	8.2	8.0	6.9	6.7
Refining Scope 2 GHG Emissions	million tonnes CO ₂ e	-	-	CCE-4 - C3	3.9	4.0	3.8	3.5	3.4
MPLX Scope 2 GHG Emissions ⁽¹⁰⁾	million tonnes CO ₂ e	-	-	CCE-4 - C3	3.8	3.8	3.8	3.3	3.3
Scope 3 - Category 11: Use of Sold Products - Refinery Yield Method	million tonnes CO ₂ e	-	305-3a	CCE-4 - A2	-	426	352	379	404
Energy Consumption⁽⁴⁾⁽⁶⁾									
Total Energy Consumption	billion gj	-	302-1a	CCE-6 - C1	0.6	0.6	0.6	0.6	0.6
Refining Energy Consumption	billion gj	-	-	-	0.5	0.5	0.5	0.5	0.5
MPLX G&P Energy Consumption	billion gj	-	-	-	0.1	0.1	0.1	0.1	0.1
Energy Intensity	gj/boe	-	302-3a	CCE-6 - A2	0.4	0.3	0.3	0.4	0.3
Refining Energy Intensity	gj/boe	-	-	CCE-6 - A2	0.5	0.5	0.5	0.5	0.4
MPLX G&P Energy Intensity	gj/boe	-	-	CCE-6 - A2	0.1	0.1	0.1	0.1	0.2
Energy Consumption Purchased/Produced by Renewable Sources	million gj	-	302-1b	CCE-6 - C2	-	-	6.1	5.4	6.1
Energy Consumption Purchased/Produced by Combined Heat and Power	million gj	-	302-1c	CCE-6 - C2	-	-	-	58	55
Energy Consumption Purchased/Produced by Combined Cycle Gas Turbine	million gj	-	302-1c	CCE-6 - C2	-	-	-	9.1	9.5
Avoided Energy Consumption from Efficiency Efforts	million gj	-	302-4a	-	20	18	13	19	20
Air Emissions⁽⁴⁾⁽⁶⁾									
Total Criteria Pollutant Emissions	thousand tonnes	-	-	-	54.0	50.3	43.9	43.7	43.1
Total SOx Emissions	thousand tonnes	-	305-7a.ii	ENV-5 - C1	3.5	3.3	2.5	2.8	2.7
Total NOx Emissions	thousand tonnes	-	305-7a.i	ENV-5 - C1	19.6	17.9	14.8	15.2	15.4

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2018	2019	2020	2021	2022
Air Emissions (continued) ⁽⁴⁾⁽⁶⁾									
Total CO Emissions	thousand tonnes	-	305-7a.vii	ENV-5 - A1	11.4	10.8	9.7	9.9	9.5
Total VOC Emissions	thousand tonnes	-	305-7a.iv	ENV-5 - C1	16.0	15.0	14.1	13.1	12.6
Total PM ₁₀ Emissions	thousand tonnes	-	305-7a.vi	ENV-5 - A1	3.5	3.4	2.9	2.7	2.9
Total Criteria Pollutant Emissions Intensity	tonnes/million boe	-	-	-	31.4	27.7	27.0	26.0	24.8
Refining Criteria Pollutant Emissions	thousand tonnes	-	-	ENV-5 - A3	33.2	32.8	28.8	29.9	30.4
Refining SO _x Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	3.4	3.2	2.4	2.7	2.6
Refining NO _x Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	11.8	11.9	10.0	10.6	10.8
Refining CO Emissions	thousand tonnes	-	-	ENV-5 - A3	7.7	7.6	7.0	7.3	7.3
Refining VOC Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	7.4	7.3	6.9	6.9	7.2
Refining PM ₁₀ Emissions	thousand tonnes	EM-RM-120a.1	-	ENV-5 - A3	2.9	2.8	2.5	2.3	2.5
Refining H ₂ S Emissions ⁽¹²⁾	thousand tonnes	EM-RM-120a.1	-	-	0.08	0.09	0.08	0.06	0.06
Refining Criteria Pollutant Emissions from Flaring	thousand tonnes	-	-	-	2.6	2.5	2.1	2.9	3.2
Refining Criteria Pollutant Emissions Intensity	tonnes/million boe	-	-	ENV-5 - A3	29.8	28.7	30.6	29.5	28.5
Hazardous Air Pollutant Emissions ⁽¹²⁾	thousand tonnes	-	305-7a.v	-	1.0	0.9	0.9	1.0	1.2
Number of Refineries in or Near Areas of Dense Population	count	EM-RM-120a.2	-	-	-	12	12	12	12
MPLX Criteria Pollutant Emissions⁽¹⁰⁾	thousand tonnes	-	-	ENV-5 - A3	20.8	17.4	15.1	13.9	12.7
MPLX SO _x Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	0.1	0.1	0.1	0.1	0.1
MPLX NO _x Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	7.8	5.9	4.8	4.6	4.6
MPLX CO Emissions	thousand tonnes	-	-	ENV-5 - A3	3.7	3.2	2.7	2.6	2.3
MPLX VOC Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	8.7	7.7	7.1	6.2	5.4
MPLX PM ₁₀ Emissions	thousand tonnes	EM-MD-120a.1	-	ENV-5 - A3	0.6	0.5	0.4	0.4	0.4
Water⁽⁴⁾⁽⁶⁾									
Total Water Withdrawal	megaliters	-	303-3a	-	158,823	162,831	145,269	140,181	144,400
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	ENV-1 - C1	155,301	157,379	139,036	135,057	133,736
Other water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	ENV-1 - A4	3,522	5,452	6,234	5,124	10,664
Surface Water Withdrawal	megaliters	-	303-3a.i	-	86,133	87,693	79,001	77,123	77,303
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	86,133	87,693	78,999	77,123	77,303
Groundwater Withdrawal	megaliters	-	303-3a.ii	-	20,647	21,496	22,861	25,103	25,819
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	17,521	17,338	17,883	21,502	18,502
Seawater Withdrawal	megaliters	-	303-3a.iii	-	0	87	75	73	59
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	-	0	87	75	73	59
Third-Party Withdrawal	megaliters	-	303-3a.v	-	52,044	53,555	43,331	37,532	40,467

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Water (continued) ⁽⁴⁾⁽⁶⁾									
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.i	-	51,648	52,348	42,153	36,432	37,931
Other Water ($>$ 1,000 mg/L total dissolved solids)	megaliters	-	303-3c.ii	-	396	1,207	1,178	1,101	2,536
Total Freshwater Recycled	megaliters	-	-	ENV-1 - A5	7,669	9,167	26,055	27,766	30,648
Refining Freshwater Withdrawal	megaliters	EM-RM-140a.1	-	-	153,518	155,697	137,420	134,495	132,786
Refining Freshwater Recycled ⁽¹³⁾	%	EM-RM-140a.1	-	-	5	6	19	21	23
Refining Freshwater Withdrawal in High Baseline Water Stress Areas as Percentage of Total Freshwater Withdrawal	%	EM-RM-140a.1	-	-	27	26	23	23	21
Refining Freshwater Consumed in High Baseline Water Stress Areas as Percentage of Total Freshwater Consumed	%	EM-RM-140a.1	-	-	31	27	24	25	18
Refining Total Water Consumption	megaliters	-	303-5a	-	74,356	74,661	63,540	62,811	66,590
Total Water Withdrawal in Stressed Areas	megaliters	-	303-3b	ENV-1 - C4	44,636	44,069	37,135	34,576	36,567
Surface Water Withdrawal in Stressed Areas	megaliters	-	303-3b.i	-	0	0	0	0	1
Groundwater Withdrawal in Stressed Areas	megaliters	-	303-3b.ii	-	11,212	11,911	13,931	15,989	17,426
Third-Party Withdrawal in Stressed Areas	megaliters	-	303-3b.v	-	33,424	32,158	23,203	18,587	19,122
Total Freshwater Withdrawal in Stressed Areas	megaliters	-	-	-	41,510	39,911	32,157	30,975	27,858
Total Freshwater Recycled in Stressed Areas	megaliters	-	-	-	5,781	5,267	15,173	16,404	16,895
Total Freshwater Recycled in Stressed Areas	%	-	-	-	14	13	47	53	61
Total Freshwater Withdrawal Intensity	megaliters/million boe	-	-	ENV-1 - A2	90	87	85	80	77
Total Water Consumption	megaliters	-	303-5a	ENV-1 - C2	75,443	76,299	64,784	63,178	67,269
Total Water Consumption in Stressed Areas	megaliters	-	303-5b	-	24,942	22,757	18,947	18,184	18,983
Total Water Consumption Intensity	megaliters/million boe	-	-	-	44	42	40	38	39
Total Water Discharge	megaliters	-	303-4a	ENV-2 - A5	85,657	89,483	82,478	78,702	79,294
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	83,354	86,427	79,825	76,670	76,686
Other Water ($>$ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	2,303	3,056	2,652	2,033	2,608
Surface Water Discharge	megaliters	-	303-4a.i	ENV-2 - A6	51,819	52,047	49,453	48,710	46,871
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	ENV-2 - A5	51,819	52,047	49,404	48,710	46,867
Other Water ($>$ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	0	0	49	0	4
Groundwater Discharge (includes deepwell injection)	megaliters	-	303-4a.ii	ENV-2 - A6	2,276	2,951	1,993	1,699	2,162
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	0	32	2	3	0
Other Water ($>$ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	2,276	2,919	1,991	1,696	2,162
Seawater Discharge	megaliters	-	303-4a.iii	ENV-2 - A6	6,416	6,377	3,841	1,100	995
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	6,416	6,290	3,766	1,087	895
Other Water ($>$ 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	0	87	75	13	100
Third-Party Discharge	megaliters	-	303-4a.iv	ENV-2 - A5	25,145	28,108	27,191	27,193	29,265
Freshwater (\leq 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.i	-	25,119	28,059	26,653	26,870	28,923

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2018	2019	2020	2021	2022
Water (continued) ⁽⁴⁾⁽⁶⁾									
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4b.ii	-	27	49	538	323	341
Total Water Discharge in Stressed Areas	megaliters	-	303-4c	ENV-2 - A7	19,694	21,312	18,188	16,392	17,583
Freshwater (≤ 1,000 mg/L total dissolved solids)	megaliters	-	303-4c.i	-	19,694	21,312	18,188	16,392	17,562
Other Water (> 1,000 mg/L total dissolved solids)	megaliters	-	303-4c.ii	-	0	0	0	0	21
Seawater Discharge in Stressed Areas	megaliters	-	-	ENV-2 - A7	6,416	6,290	3,757	1,087	895
Third-Party Discharge in Stressed Areas	megaliters	-	-	ENV-2 - A7	13,278	15,022	14,431	15,303	16,676
Incidents of Noncompliance with Discharge Limits	count	-	303-4d.iii	-	-	92	92	59	25
Incidents of Noncompliance with Water Quality Permits, Standards and Regulations with Enforcement	count	EM-RM-140.a2	-	-	-	13	13	12	7
Waste ⁽⁴⁾⁽⁶⁾⁽¹⁴⁾									
Total Waste Generated	thousand tonnes	-	306-3.a	-	-	422	253	318	254
Hazardous Waste Generated	thousand tonnes	-	306-3.a	-	-	42	42	36	37
Nonhazardous Waste Generated	thousand tonnes	-	306-3.a	-	-	381	211	282	217
Total Waste Diverted from Disposal	thousand tonnes	-	306-4.a,b	-	-	119	69	90	40
Hazardous Waste Diverted from Disposal	thousand tonnes	-	306-4.a	-	-	13	13	10	19
Hazardous Waste - Preparation for Reuse	thousand tonnes	-	306-4.b.i	-	-	0	0	0	5
Hazardous Waste - Recycling	thousand tonnes	-	306-4.b.ii	-	-	13	13	10	14
Hazardous Waste - Other Recovery	thousand tonnes	-	306-4.b.iii	-	-	0	0	0	0
Nonhazardous Waste Diverted from Disposal	thousand tonnes	-	306-4.a,c	-	-	106	56	80	22
Nonhazardous Waste - Preparation for Reuse	thousand tonnes	-	306-4.c.i	-	-	2	0	0	0
Nonhazardous Waste - Recycling	thousand tonnes	-	306-4.c.ii	-	-	104	56	80	21
Nonhazardous Waste - Other Recovery	thousand tonnes	-	306-4.c.iii	-	-	0	0	0	0
Total Waste Directed to Disposal	thousand tonnes	-	306-5.a	-	-	303	184	228	214
Hazardous Waste Directed to Disposal	thousand tonnes	-	306-5.a,b	-	-	29	29	26	18
Hazardous Waste - Incineration with Energy Recovery	thousand tonnes	-	306-5.b.i	-	-	19	16	10	12
Hazardous Waste - Incineration without Energy Recovery	thousand tonnes	-	306-5.b.ii	-	-	7	8	12	5
Hazardous Waste - Landfilling	thousand tonnes	-	306-5.b.iii	-	-	3	5	4	2
Hazardous Waste - Other Disposal	thousand tonnes	-	306-5.b.iv	-	-	0	0	0	0
Nonhazardous Waste Directed to Disposal	thousand tonnes	-	306-5.a,c	-	-	275	155	202	195
Nonhazardous Waste - Incineration with Energy Recovery	thousand tonnes	-	306-5.c.i	-	-	21	20	13	6
Nonhazardous Waste - Incineration without Energy Recovery	thousand tonnes	-	306-5.c.ii	-	-	1	0	1	1
Nonhazardous Waste - Landfilling	thousand tonnes	-	306-5.c.iii	-	-	253	135	188	188
Nonhazardous Waste - Other Disposal	thousand tonnes	-	306-5.c.iv	-	-	0	0	0	1

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipeca Map	2018	2019	2020	2021	2022
Waste (continued) ⁽⁴⁾⁽⁶⁾⁽¹⁴⁾									
Refining Hazardous Waste Generated	thousand tonnes	EM-RM-150a.1	-	-	-	38	41	34	32
Refining Hazardous Waste Recycled	%	EM-RM-150a.1	-	-	-	34	31	25	43
Underground Storage Tanks (USTs) ⁽¹⁵⁾	count	EM-RM-150a.2	-	-	-	15,872	15,753	298	298
UST Releases Requiring Cleanup	count	EM-RM-150a.2	-	-	-	32	80	0	0
UST Releases Requiring Cleanup in States with UST Financial Assurance Funds	%	EM-RM-150a.2	-	-	-	47	85	0	0
Spills ⁽⁴⁾⁽⁶⁾									
Hazardous Material Spilled >1 bbl - volume	bbls	-	306-3	-	-	4,594	681	54,108	6,132
Hazardous Material Spills >1 bbl - count	count	-	306-3	-	-	8	3	8	9
Total Oil Spilled >1 bbl - volume	bbls	-	-	ENV-6 - C2	3,680	5,446	1,003	5,493	6,668
Total Oil Spills >1 bbl - count	count	-	-	ENV-6 - C2	158	160	61	47	70
Oil Spilled to Land >1 bbl - volume	bbls	-	-	ENV-6 - A3	2,207	5,340	515	4,740	5,760
Oil Spills to Land >1 bbl - count	count	-	-	ENV-6 - A3	133	140	59	46	66
Oil Spilled to Water >1 bbl - volume	bbls	-	-	ENV-6 - A3	1,473	106	488	753	908
Oil Spills to Water >1 bbl - count	count	-	-	ENV-6 - A3	25	20	2	1	4
MPLX Hydrocarbons Spilled >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	2,232	855	2,748	5,506
MPLX Hydrocarbon Spills >1 bbl - count	count	EM-MD-160a.4	-	-	-	41	34	26	47
MPLX Hydrocarbons Spilled to Land >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	2,127	293	1,995	4,606
MPLX Hydrocarbons Spilled to Water >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	105	488	753	901
MPLX Hydrocarbons Spilled in Arctic >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	0	0	0	0
MPLX Hydrocarbons Spilled in Unusually Sensitive Areas >1 bbl - volume ⁽¹⁶⁾	bbls	EM-MD-160a.4	-	-	-	0	0	0	3,500
MPLX Hydrocarbons Spilled Recovered >1 bbl - volume	bbls	EM-MD-160a.4	-	-	-	2,140	781	2,528	4,558
Reportable Pipeline Incidents	count	EM-MD-540a.1	-	-	-	14	12	14	11
Reportable Pipeline Incidents - Significant	%	EM-MD-540a.1	-	-	-	28.6	33	50	6
Rail Transportation Accident Releases	count	EM-MD-540a.3	-	-	-	0	0	0	0
Rail Transportation Non-Accident Releases	count	EM-MD-540a.3	-	-	-	5	6	3	6
Natural Gas Pipelines Inspected ⁽¹⁷⁾	%	EM-MD-540a.2	-	-	-	22.9	11	12	9.9
Hazardous Liquid Pipelines Inspected ⁽¹⁷⁾	%	EM-MD-540a.2	-	-	-	26.7	23.7	34.0	32.1
Designated Environmental Incidents (DEIs) ⁽¹⁸⁾									
Number of Tier 2, 3 and 4 DEIs	count	-	-	-	228	228	151	166	187
Tier 2 DEIs	count	-	-	-	93	143	101	111	135
Tier 3 and 4 DEIs	count	-	-	-	135	85	50	55	52
Ecological Impacts									
Wildlife Habitat Council Certified Habitats Owned and Maintained	count	-	-	-	23	23	22	20	16

Environmental Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Ecological Impacts (continued)									
Acres of Wildlife Habitat Council Certified Habitats Owned and Maintained	acres	-	-	-	1,347	1,317	1,313	1,183	817
Land Owned, Leased, and/or Operated within Areas of Protected Conservation Status or Endangered Species Habitat ⁽¹⁹⁾	%	EM-MD-160a.2	304-1	-	-	-	23	21	19
Terrestrial Acreage Disturbed ⁽²⁰⁾	acres	EM-MD-160a.3	-	-	-	3,294	4,644	7,328	1,565
Impacted Areas Restored ⁽²¹⁾	%	EM-MD-160a.3	304-3	-	-	100	92	100	117

Social Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
U.S. Equal Employment Opportunity Commission Statistics (EEO-1 DATA)⁽²²⁾									
TOTAL EMPLOYEES									
Women	%	-	405-1	SOC-5 - C2	-	18.6	18.1	18.1	18.0
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	12.3	12.5	12.5	13.0
Black or African American	%	-	405-1	SOC-5 - C2	-	4.8	4.8	4.9	5.0
Asian	%	-	405-1	SOC-5 - C2	-	3.1	2.8	2.9	3.0
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	1.2	0.8	0.8	0.9
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	0.3	0.3	0.4	0.4
Two or More Races	%	-	405-1	SOC-5 - C2	-	1.4	1.3	1.4	1.5
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	23.1	22.6	23.0	23.8
White	%	-	405-1	SOC-5 - C2	-	76.9	77.4	77.0	76.2
EXECUTIVE/SENIOR OFFICIALS AND MANAGERS									
Women	%	-	405-1	SOC-5 - C2	-	22.6	23.1	24.0	33.3
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	3.2	3.8	4.0	0.0
Black or African American	%	-	405-1	SOC-5 - C2	-	0	0	0	0.0
Asian	%	-	405-1	SOC-5 - C2	-	0	0	0	0.0
American Indian or Alaskan Native	%	-	405-1	SOC-5 - C2	-	0	0	0	0.0
Native Hawaiian or Pacific Islander	%	-	405-1	SOC-5 - C2	-	0	0	0	0.0
Two or More Races	%	-	405-1	SOC-5 - C2	-	0	0	0	0.0
Total Minority Representation	%	-	405-1	SOC-5 - C2	-	3.2	3.8	4.0	0.0
White	%	-	405-1	SOC-5 - C2	-	96.8	96.2	96.0	100.0
FIRST/MID-LEVEL OFFICIALS AND MANAGERS									
Women	%	-	405-1	SOC-5 - C2	-	12.9	14.2	16.0	14.9
Hispanic or Latino	%	-	405-1	SOC-5 - C2	-	7.4	7.4	7.9	8.2
Black or African American	%	-	405-1	SOC-5 - C2	-	3	3.2	3.5	3.6
Asian	%	-	405-1	SOC-5 - C2	-	2	1.9	2.2	2.5

Social Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Workforce									
Board of Directors									
Board of Directors - Women	%	-	405-1	SOC-5 - C3	17	17	17	17	18
Board of Directors - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	25	25	25	33	27
Board of Directors by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	83	83	83	82
Board of Directors by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	17	17	17	18
Officers									
Officers - Women	%	-	405-1	SOC-5 - C3	21	22	25	27	28
Officers - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	4	4	5	5	0
Officers by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	67	55	41	39
Officers by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	29	40	50	56
Officers by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	4	5	9	6
All Senior Management	count	-	405-1	SOC-5 - C3	-	134	127	148	168
Senior Management - Women	%	-	405-1	SOC-5 - C3	15	17	21	23	24
Senior Management - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	9	9	11	12	11
Senior Management by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	31	22	15	14
Senior Management by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	67	75	77	77
Senior Management by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	2	3	8	9
All Supervisors	count	-	-	SOC-5 - C3	-	2,581	2,449	2,254	2,326
Supervisors - Women	%	-	405-1	SOC-5 - C3	-	18	17	17	16
Supervisors - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	-	14	15	16	17
Supervisors by Age Group Baby Boomers	%	-	405-1	SOC-5 - C3	-	22	15	13	10
Supervisors by Age Group Generation X	%	-	405-1	SOC-5 - C3	-	54	56	56	55
Supervisors by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	24	29	31	35
Total Hires - All Employees	count	-	401-1	-	2,650	2,750	1,590	1,366	2,306
Total Hires - Women	%	-	401-1	-	24	25	27	23	22
Total Hires - Racial/Ethnic Minority Groups	%	-	401-1	-	19	21	25	32	31
Total Hires by Age Group Baby Boomer	%	-	401-1	SOC-5 - C3	-	7	3	5	4
Total Hires by Age Group Generation X	%	-	401-1	SOC-5 - C3	-	23	17	22	20
Total Hires by Age Group Millennials	%	-	401-1	SOC-5 - C3	-	49	41	42	48
Total Hires by Age Group Generation Z	%	-	401-1	SOC-5 - C3	-	21	39	31	28
Intern/Co-op Hires - Total	count	-	-	SOC-5 - C3	519	529	545	296	366
Intern/Co-op Hires - Women	%	-	405-1	SOC-5 - C3	36	35	35	36	36
Intern/Co-op Hires - Racial/Ethnic Minority Groups	%	-	405-1	SOC-5 - C3	24	25	24	25	28

Social Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Workforce									
Interns by Age Group Millennials	%	-	405-1	SOC-5 - C3	-	24	10	7	7
Interns by Age Group Generation Z	%	-	405-1	SOC-5 - C3	-	76	90	93	93
Intern to Employee Conversions - Total	count	-	-	SOC-7 - A2	119	136	139	51	71
Intern to Employee Conversions - Women	%	-	405-1	SOC-7 - A2	35	32	47	35	39
Intern to Employee Conversions - Racial/Ethnic Minority Groups	%	-	405-1	SOC-7 - A2	20	19	15	24	11
Intern to Employee Conversions by Age Group Baby Boomer	%	-	405-1	SOC-7 - A2	-	1	0	0	0
Intern to Employee Conversions by Age Group Generation X	%	-	405-1	SOC-7 - A2	-	1	0	0	0
Intern to Employee Conversions by Age Group Millennials	%	-	405-1	SOC-7 - A2	-	80	62	18	7
Intern to Employee Conversions by Age Group Generation Z	%	-	405-1	SOC-7 - A2	-	18	38	82	93
Community Investment⁽²³⁾									
Community Investment Dollars	\$ million	-	-	SOC-13 - C2	21.7	18.7	13	21	23.2
Nonprofits Supported	count	-	-	-	921	534	937	956	1,013
Schools Supported	count	-	-	-	-	128	123	150	138
Employee Donations to Nonprofits	\$ million	-	-	-	3.35	5.6	4.61	4.1	4.2
Employee Volunteer Hours	hours	-	-	-	43,765	55,525	44,433	57,522	87,076
Corporate Sponsorships, Local Giving, Company Matching Gifts, Disaster Relief	\$ million	-	-	-	-	-	10.1	9.0	9
Focused, Long-Term Investments and Employee Volunteer Program	\$ million	-	-	-	-	-	2.9	11.4	11.4
Commercial Initiatives	\$ million	-	-	-	-	-	2.1	1.5	1.7
Value of Employee Volunteer Hours During Working Hours ⁽²⁴⁾	\$ thousand	-	-	-	-	-	-	119	60
Community Investment Overhead	\$ million	-	-	-	-	-	1.6	1.7	2.2
Rights of Indigenous Peoples									
Operations Where Indigenous Communities are Present	count	-	OG-9	-	-	13	14	21	21
Number of Significant Disputes with Local and Indigenous Peoples	count	411-1	OG-10	-	-	0	0	0	0
Operations Where Involuntary Resettlement Took Place with Indigenous Communities	count	411-1	OG-12	SOC-11	-	0	0	0	0
Supply Chain									
Supply Chain Spend (excluding crude/feedstock purchases)	\$ billion	-	-	-	-	19.7	15	7	9
Diverse Supplier Spend (excluding crude/feedstock purchases)	\$ million	-	-	-	-	395	277	575	708

Safety Performance	Unit of measure	SASB Map	GRI Map	Ipieca Map	Result 2018	Result 2019	Result 2020	Result 2021	Result 2022
Personal Safety Performance⁽²⁵⁾									
TOTAL COUNT OF SAFETY INCIDENTS									
Refining	count	-	-	-	78	86	54	66	72
Employee	count	-	-	-	25	37	20	29	37
Contractor	count	-	-	-	53	49	34	37	35
MPLX	count	-	-	-	130	139	113	101	111
Employee	count	-	-	-	34	76	80	91	94
Contractor	count	-	-	-	96	63	33	10	17
FATALITIES⁽²⁶⁾									
Total Company - Fatalities	count	-	-	SHS-3 - C1	2	0	1	0	1
Employee	count	-	-	SHS-3 - C1	1	0	0	0	1
Contractor	count	-	-	SHS-3 - C1	1	0	1	0	0
Total Company - Fatality Rate	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.002	0.000	0.002	0.000	0.003
Employee	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.002	0.000	0.000	0.000	0.005
Contractor	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.004	0.000	0.005	0.000	0.000
OSHA RECORDABLE INCIDENT RATE⁽²⁷⁾									
Total Company	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.43	0.42	0.39	0.51	0.51
Employee	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.26	0.47	0.45	0.60	0.69
Contractor	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.58	0.38	0.33	0.36	0.31
Refining	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.27	0.28	0.22	0.34	0.31
Employee	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.20	0.29	0.18	0.30	0.38
Contractor	per 200,000 hrs worked	EM-RM-320a.1	403-9	SHS-3 - C1	0.32	0.27	0.27	0.39	0.26
MPLX	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.76	0.71	0.74	0.94	1.07
Employee	per 200,000 hrs worked	-	403-9	SHS-3 - C1	0.45	0.95	0.98	1.25	1.33
Contractor	per 200,000 hrs worked	-	403-9	SHS-3 - C1	1.00	0.55	0.46	0.29	0.50
LOST TIME RATE⁽²⁸⁾									
Total Company	per 200,000 hrs worked	-	-	SHS-3 - C1	0.10	0.09	0.10	0.15	0.15
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.10	0.11	0.15	0.19	0.24
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.10	0.07	0.04	0.08	0.05
Refining	per 200,000 hrs worked	-	-	SHS-3 - C1	0.04	0.05	0.04	0.08	0.07
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.07	0.07	0.05	0.08	0.15
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.02	0.03	0.03	0.07	0.02
MPLX	per 200,000 hrs worked	-	-	SHS-3 - C1	0.20	0.17	0.22	0.33	0.35
Employee	per 200,000 hrs worked	-	-	SHS-3 - C1	0.19	0.22	0.34	0.43	0.45
Contractor	per 200,000 hrs worked	-	-	SHS-3 - C1	0.21	0.14	0.07	0.12	0.12

Safety Performance	Unit of Measure	SASB Map	GRI Map	Ipieca Map	2018	2019	2020	2021	2022
Personal Safety Performance (continued)									
TOTAL COUNT OF HEALTH ILLNESSES⁽²⁹⁾									
Total Company	count	-	403-10	-	-	0	36	27	0
Process Safety Performance									
PROCESS SAFETY EVENTS SCORE⁽³⁰⁾									
Total Company	(3 x total Tier 1 count) + total Tier 2 count	-	-	-	120	127	77	84	109
Refining	(3 x total Tier 1 count) + total Tier 2 count	-	-	-	90	92	49	67	91
MPLX	(3 x total Tier 1 count) + total Tier 2 count	-	-	-	30	35	28	17	18
PROCESS SAFETY EVENTS RATE - TIER 1									
Total Company	(total Tier 1 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.07	0.04	0.06	0.08	0.10
Refining	(total Tier 1 count/total work hrs) × 200,000	EM-RM-540a.1	OG-13	SHS-6 - C1	0.05	0.04	0.04	0.06	0.09
MPLX	(total Tier 1 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.18	0.06	0.19	0.24	0.25
PROCESS SAFETY EVENTS RATE - TIER 2									
Total Company	(total Tier 2 count/total work hrs) × 200,000	-	OG-13	SHS-6 - C1	0.17	0.19	0.11	0.17	0.15
Refining	(total Tier 2 count/total work hrs) × 200,000	EM-RM-540a.1	OG-13	SHS-6 - A1	0.16	0.18	0.08	0.16	0.14
MPLX	(total Tier 2 count/total work hrs) × 200,000	-	OG-13	SHS-6 - A1	0.30	0.24	0.38	0.30	0.37
Governance Performance									
Governance									
Board Composition - Independent Directors	%	-	2-9	GOV-1 - A1	-	92	92	92	91
Board Composition - Independent Directors	count	-	2-9	GOV-1 - A1	-	11	11	11	10
Board Composition - Board Diversity (women + ethnic minorities)	%	-	2-9, 405-1	GOV-1 - A1	-	33	33	42	36
Board Composition - Women	count	-	2-9, 405-1	GOV-1 - A1	-	2	2	2	2
Board Composition - Ethnic Minorities	count	-	2-9, 405-1	GOV-1 - A1	-	3	3	4	3
Board Experience - Significant Refreshment Since 2017	%	-	-	GOV-1 - A1	-	50	50	50	55
Total Amount of \$ Losses from Legal Proceedings Associated with Federal Pipeline and Storage Regulations	\$ million	EM-MD-520a.1	-	-	-	0	1.29	8.47	0.06
Total Amount of \$ Losses from Legal Proceedings Associated with Price Gouging, Price Fixing or Price Manipulation ⁽³¹⁾	\$ million	EM-RM-520a.1	206-1	-	-	22.5	0	0	0
Cybersecurity									
MPC Email Account Holders Receiving Phishing Simulations	count	-	-	-	-	32,000	36,228	23,236	22,786
MPC Email Account Holders Receiving Phishing Simulations	%	-	-	-	-	100	100	99	99

Notes

- (1) As reported in the MPC 2022 Annual Report on Form 10-K for 2022 data. On May 14, 2021, MPC completed the sale of Speedway to 7-Eleven, Inc. As a result of this sale, Speedway's results are reported separately as discontinued operations. Previous years' data is as reported in the MPC 2021 Annual Report on Form 10-K.
- (2) Based on the American Petroleum Institute's definition of environmental expenditures.
- (3) These amounts include spending charged against remediation reserves, where permissible, but exclude noncash provisions recorded for environmental remediation.
- (4) Data before 2019 is inclusive of facilities that MPC did not yet own so that performance can be compared across the same asset base over time. Assets included are those that MPC owned/operated as of Dec. 31, 2019, unless otherwise noted. Estimates used in some instances where historic data was unavailable.
- (5) No significant difference between total addressable market and market MPC serves. Nonrevenue generating initiatives to commercialize biofuels.

MPC has participated in numerous precompetitive research projects around biofuels, including:

- Coordinating Research Council – nonprofit organization that directs engineering and environmental studies on the interaction between automotive/other mobility equipment and petroleum products.
- U.S. DRIVE Fuels Working Group – researching higher levels of biofuels into gasolines. U.S. DRIVE is a voluntary government-industry partnership focused on advanced automotive and related energy infrastructure technology research and development.

Virent collaborates with many key industry and government partners around advanced biofuels:

- Synthesized Aromatic Kerosene (SAK) – working with key partners such as the Federal Aviation Administration, University of Dayton Research Institute, Air Force Research Laboratory, GE Aviation, ASTM and others on the production and certification of SAK for use as a sustainable aviation fuel.
- Renewable Gasoline – working with key partners such as Southwest Research Institute, Johnson Matthey and Cargill on the production and distribution of renewable gasoline.
- Distillate Fuels from Biomass – working with the University of Colorado-Boulder in partnership with the National Renewable Energy Laboratory and Royal Dutch Shell on the production of distillate fuels from woody biomass.
- Conversion Process for Lignocellulosic Feedstocks – Virent's BioForming technology's current focus is on using sugars from commercial crops to enable faster commercialization of advanced biofuels, such as renewable gasoline, SAK and diesel blendstocks, and to provide a pathway for commercializing conversion processes for lignocellulosic feedstocks and cellulosic sugars. Current and prior development activities include work with a number of industry and government partners developing cellulosic sugar technologies, as well as the development of Virent's proprietary lignocellulosic conversion technology under competitive grant awards from the U.S. DOE, USDA, DOT and Commerce and in collaboration with various national laboratories, universities and Wright-Patterson Air Force Base.

- (6) Environmental performance reported for facilities of which MPC and MPLX has operational control.
- (7) Scope 1 direct GHG emissions include those from Refining and MPLX and are typically calculated per the EPA's Mandatory Greenhouse Gas Reporting Program, the World Resources Institute / World Business Council for Sustainable Development Greenhouse Gas Protocol: A corporate accounting and reporting standard, revised edition, or the 2009 API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry. Global Warming Potentials used are from Table A-1 to Subpart A of 40 CFR Part 98 as of February 2022.
- (8) Inclusive of carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and sulfur hexafluoride (SF₆). Hydrofluorocarbons (HFC) and perfluorocarbons (PFC) emissions are considered to not be material to our operations and are therefore excluded.
- (9) The Martinez and Los Angeles facilities are currently subject to the California Cap-and-Trade Program.
- (10) MPLX emissions data includes emissions from all midstream facilities and, as such, a small amount of MPLX reported emissions are from MPC-owned midstream facilities.
- (11) Location-based Scope 2 emissions that include indirect GHG emissions from consumption of purchased electricity, heat or steam.
- (12) As reported in the Toxic Release Inventory (TRI) Program.
- (13) 2020 and 2021 water recycle data not comparable to prior years due to enhanced water accounting that arose from the Focus on Water program launched in 2020.
- (14) The legal or regulatory frameworks used to define hazardous waste and recycled hazardous waste is 40 CFR 260-261.
- (15) On May 14, 2021, MPC completed the sale of Speedway to 7-Eleven, Inc. As a result of this sale, UST data beginning in 2021 does not include Speedway.
- (16) Volume of spills in Unusually Sensitive Areas is inclusive of PHMSA-reportable spills only.
- (17) MPC and MPLX conform to inspection frequency requirements contained in 49 CFR 192 and 195. Nonregulated pipelines are not included. For all years presented, 100% of regulated natural gas and hazardous pipeline inspections were completed as required.
- (18) DEIs include releases to the environment (air, land or water), environmental permit exceedances and agency enforcement actions. Tier 3 and 4 DEIs are the most significant types of DEIs. DEI performance is only inclusive of assets/entities that MPC and MPLX owned in the reporting year.

- (19) The U.S. Geological Survey (USGS) Protected Areas Database v.2.1 is the nation's official inventory of public open space and private protected areas and was used to determine areas of protected conservation status. The U.S. Fish and Wildlife Service (FWS) Critical Habitat, U.S. FWS National Wildlife Refuge and U.S. Endangered Species Habitat data sets were used to determine areas of endangered species habitat. As MPC's and MPLX's operations are limited to the U.S., these two data sets are appropriate for the evaluation of this metric in place of the references suggested in the standard. As of the end of 2022, 26,029 acres out of 134,749 total acres owned, leased and/or operated were located within areas of protected conservation status or endangered species habitat.
- (20) Includes land impacted during the reporting year. For years 2018-2021, disturbed land was defined as requiring regulatory review and subsequent permitting (1 acre or greater) OR identified within an otherwise environmentally sensitive area. Beginning in 2022, disturbed land now additionally includes land disturbance and restoration that exceeds or is otherwise not governed by regulatory review and subsequent permitting. Disturbed land does not include either (1) previously disturbed agricultural fields, (2) pipeline work on our current (previously disturbed) right of way, or (3) right-of-way maintenance vegetation clearing on previously disturbed land required by PHMSA to enable aerial pipeline inspections.
- (21) In 2022, more acreage was restored than disturbed due to the restoration of land disturbance projects that had taken place in previous reporting years.
- (22) Excludes international employees. Definitions for EEO-1 filings are different than internal MPC definitions (Executives, etc.). Federal reporting deadlines are later this year; MPC data not yet submitted.
- (23) Includes Marathon Petroleum Foundation dollars.
- (24) Calculated using Independent Sector's 2021 Estimated National Value of Volunteer Time.
- (25) To present comparable year-over-year data, the data presented for Count of Safety Incidents does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Refining Count of Employee Safety Incidents is 44 and 33, respectively. 2020 and 2021 MPLX Count of Employee Safety Incidents is 92 and 114, respectively. There were no COVID-19 related cases in 2022.
- (26) To present comparable year-over-year data, the data presented for Fatalities does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 Total Company Employee Fatalities is one and 2020 Total Company Employee Fatality Rate is 0.004. There were no work-related COVID-19 fatalities in 2021. There were no COVID-19 related cases in 2022.
- (27) To present comparable year-over-year data, the data presented for OSHA Recordable Incident Rate does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Total Company Employee OSHA Recordable Incident Rate is 0.60 and 0.74, respectively. 2020 and 2021 Refining Employee OSHA Recordable Incident Rate is 0.39 and 0.34, respectively. 2020 and 2021 MPLX Employee OSHA Recordable Incident Rate is 1.13 and 1.57, respectively. There were no COVID-19 related cases in 2022.

- (28) To present comparable year-over-year data, the data presented for Lost Time Rate does not include COVID-19 cases that MPC conservatively recorded as work-related. Including these cases, 2020 and 2021 Total Company Lost Time Rate is 0.31 and 0.33, respectively. 2020 and 2021 Refining Employee Days Away Rate is 0.26 and 0.12, respectively. 2020 and 2021 MPLX Employee Days Away Rate is 0.49 and 0.74, respectively. There were no COVID-19 related cases in 2022.
- (29) Total Count of Health Illnesses include COVID-19 related health illnesses.
- (30) Process Safety Events Score measures MPC's and MPLX's ability to identify, understand and control certain process hazards, taking into account Tier 1 and Tier 2 events, with Tier 1 events multiplied by three to recognize their severity.
- (31) In May 2007, the Kentucky attorney general filed a lawsuit against MPC and Speedway LLC in state court in Franklin County, Kentucky, for alleged violations of Kentucky's emergency pricing and consumer protection laws following Hurricanes Katrina and Rita in 2005. The lawsuit alleged that we overcharged customers by \$89 million USD during September and October 2005. The complaint sought disgorgement of these sums, as well as penalties, under Kentucky's emergency pricing and consumer protection laws. In May 2011, the Kentucky attorney general amended his complaint to include a request for immediate injunctive relief, as well as unspecified damages and penalties related to our wholesale gasoline pricing in April and May 2011 under statewide price controls that were activated by the Kentucky governor on April 26, 2011, and which have since expired. The court denied the attorney general's request for immediate injunctive relief. In July 2019, MPC and the attorney general reached a settlement to resolve this litigation, which included a payment of \$22.5 million USD. We disputed the allegations made against us by the attorney general's office and expressly denied any liability, wrongdoing or violation of the law. With this resolution, the attorney general's office acknowledged no admission of liability or wrongdoing. Press releases on this settlement by both MPC and the Kentucky attorney general's office can be found at <https://ir.marathonpetroleum.com/investor/news-releases/news-details/2019/Marathon-Petroleum-Corp-welcomes-settlement-of-litigation-with-the-office-of-the-Attorney-General-of-the-Commonwealth-of-Kentucky/default.aspx> and <https://kentucky.gov/Pages/Activity-stream.aspx?n=AttorneyGeneral&prId=807>, respectively. We recommended that settlement funds be used for the purpose of improving rural roads, navigable waterways and/or emergency management to mitigate the impact of weather events.