

Performance Metrics

Company Profile	2021	2020	2019	2018	2017
Revenues	\$5.79 billion	\$5.21 billion	\$8.49 billion	\$10.23 billion	\$9.50 billion
Operated wells	5,700	5,200	8,500	7,200	9,500
Net average daily production (mboe/d)	460	445	485	520	548
Proved reserves (mmboe)	1,596	802	1,572	1,448	1,912
Tax payments (state and federal)	\$211 million	\$195 million	\$272 million	\$236.5 million	\$206 million

Health and Safety	2021	2020	2019	2018	2017
Employee Total Recordable Incident Rate (TRIR)	0.17	0.40	0.16	0.26	0.05
Employee Lost Time Incident Rate (LTIR)	0.00	0.04	0.03	0.03	0.02
Employee Days Away, Restricted or Transferred (DART) rate	0.00	0.08	0.06	0.06	0.02
Employee fatalities	0	0	0	1	0
Contractor TRIR	0.64	0.38	0.49	0.62	0.56
Contractor LTIR	0.15	0.16	0.12	0.14	0.14
Contractor DART rate	0.31	0.17	0.22	0.33	0.34
Contractor fatalities	1	3	0	0	0
Combined TRIR (employee and contractor)	0.51	0.39	0.42	0.53	0.41
Motor vehicle accident rate	1.92	1.79	1.58	1.46	1.42
HSER training hours per employee (average) ⁽¹⁾	8	8	12	9	13

Workforce	2021	2020	2019	2018	2017
Employee headcount	1,251	1,532	2,292	2,351	3,223
Women in workforce	25%	29%	28%	32%	31%
Board of Directors	14%	25%	20%	25%	25%
In leadership (supervisor level and above)	18%	22%	22%	22%	22%
Individual contributors	27%	30%	25%	28%	26%
Ethnic minorities in workforce	21%	21%	18%	17%	16%
Board of Directors	14%	13%	10%	13%	13%
In leadership (supervisor level and above)	10%	10%	10%	11%	9%
Individual contributors	24%	24%	18%	16%	15%
Voluntary turnover rate (% of workforce)	10%	7%	7%	10%	8%
Voluntary turnover (number of employees)	123	136	177	256	250
Staff reduction (number of employees)	236	550	329	439	36
Professional development training hours per employee (average)	10	4	19	30	29

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Communities	2021	2020	2019	2018	2017
Charitable giving (financial and in-kind)	\$874,136	\$899,399	\$1.45 million	\$1.60 million	\$1.78 million
Employee giving (workplace campaigns)	\$365,715	\$412,254	\$773,863	\$834,768	\$1.06 million
Owner Relations team interactions (phone calls and emails)	~44,500	~48,500	~92,000	~85,600	~105,700

Environment	2021	2020	2019	2018	2017
Scope 1 GHG emissions (million metric tons CO ₂ e) ⁽²⁾	1.83	1.86	2.81	2.55	3.22
Carbon dioxide (million metric tons)	1.09	0.94	–	–	–
Methane (million metric tons CO ₂ e)	0.74	0.91	–	–	–
Methane (% of Scope 1)	40%	49%	–	–	–
Nitrous oxide (million metric tons CO ₂ e)	0.001	0.001	–	–	–
GHG emissions intensity (metric tons CO ₂ e/gross mboe produced) ⁽²⁾	4.5	6.0	8.2	7.2	9.1
Methane intensity (volume methane emissions/volume gross natural gas produced) ⁽²⁾	0.07%	0.13%	0.17%	0.16%	0.19%
Scope 1 GHG emission sources (metric tons CO ₂ e) ⁽²⁾	1,827,307	1,855,982	–	–	–
Flared hydrocarbons (metric tons CO ₂ e)	24,327	57,992	–	–	–
Other combustion (metric tons CO ₂ e)	1,050,328	902,773	–	–	–
Process emissions (metric tons CO ₂ e)	20,323	71	–	–	–
Other vented emissions (metric tons CO ₂ e)	696,120	861,062	–	–	–
Fugitive emissions (metric tons CO ₂ e)	32,334	34,084	–	–	–
Scope 2 GHG emissions (million metric tons CO ₂ e) ⁽³⁾	0.057	0.063	–	–	–
Scopes 1 & 2 combined GHG emissions intensity (metric tons CO ₂ e/gross mboe produced)	4.6	–	–	–	–
Scope 3 GHG emissions (million metric tons CO ₂ e) ⁽⁴⁾	59	57	–	–	–
Gross annual volume of flared gas (mcf) ⁽²⁾	293,595	711,934	–	–	–
Flaring intensity (gross annual volume of flared gas (mcf)/gross annual production (mcf)) ⁽²⁾	0.01%	0.05%	–	–	–
Flaring intensity (gross annual volume of flared gas (mcf)/gross annual production (boe)) ⁽²⁾	0.001	0.002	–	–	–
Water efficiency rate (water used (bbl)/boe produced for wells completed in a given year)	0.16	0.18	0.23	0.22	0.23
Freshwater intensity rate (freshwater consumed (bbl)/boe produced)	0.16	0.19	0.24	0.22	0.23
Total freshwater consumed from regions with high or extremely high baseline water stress (bbl) ⁽⁵⁾	0	1,570,177	3,078,282	–	–
Total volume of produced water recycled/reused (gal)	157,144,134	119,798,490	64,714,356	107,543,659	128,052,162
Water recycling rate (water recycled (bbl)/total water consumed (bbl))	0.021	0.024	0.027	0.037	0.036

Performance Metrics

Environment	2021	2020	2019	2018	2017
Hydrocarbon spills > 1 bbl outside of secondary containment (count)	38	48	67	–	–
Total bbls	1,155	374	580	–	–
Percent recovered	53%	74%	73%	–	–
Non-hydrocarbon spills > 1 bbl outside of secondary containment (count)	41	35	82	–	–
Total bbls	1,578	560	2,767	–	–
Percent recovered	91%	38%	63%	–	–
Spill intensity (produced liquids spilled (bbl)/ total produced liquids (mmb))	0.030	0.008	0.017	0.005	–

Data and information included in this report were subject to internal review and are believed to be correct at the time of reporting. Data reflects year-end calculations and may include divested assets until divestitures' closing dates. For certain reporting elements, later changes in categorization could affect data after publication.

(1) Excludes field operation training.

(2) Emissions estimate developed under the EPA's Greenhouse Gas Reporting Program (operated onshore production, Brazos Valley sand mine, and gathering and boosting facilities).

(3) Chesapeake calculates its reported emissions using EPA eGRID state emissions factors.

(4) Chesapeake reports our estimated indirect Scope 3 emissions on an equity basis using Category 11 of the Estimating petroleum industry value chain (Scope 3) GHG emissions reporting guidance referenced by IPIECA/API (2016). The calculation methodology applies the EPA's emission factors for listed fuel types; representing indirect end use GHG emissions of the products created from our crude oil and natural gas.

(5) Volumes reported are based on World Resource Institute's Aqueduct Water Risk Atlas annual water stress criteria.

AXPC ESG Metrics

American Exploration and Production Council (AXPC) ESG Metrics

Greenhouse Gas Emissions	2021	2020
Scope 1 GHG emissions (metric tons CO ₂ e)	1,823,433	1,855,982
Scope 1 GHG intensity (GHG emissions (metric tons CO ₂ e)/gross annual production as reported under Subpart W of EPA's GHG Reporting Program (mboe))	4.5	6.0
Percent of Scope 1 GHG emissions attributed to boosting and gathering segment	0.33%	1.25%
Scope 2 GHG emissions (metric tons CO ₂ e)	56,920	–
Scopes 1 & 2 combined GHG intensity (Scope 1 GHG emissions (metric tons CO ₂ e) + Scope 2 GHG emissions (metric tons CO ₂ e)/gross annual production as reported under Subpart W of EPA's GHG Reporting Program (mboe))	4.6	–
Scope 1 methane emissions (metric tons CH ₄)	29,539	36,461
Scope 1 methane intensity (methane emissions (metric tons CH ₄)/gross annual production as reported under Subpart W of EPA's GHG Reporting Program (mboe))	0.07	0.12
Percent of methane emissions attributed to boosting and gathering segment	0.33%	0.51%

Flaring	2021	2020
Gross annual volume of flared gas (mcf) ⁽¹⁾	293,595	711,934
Percentage of gas flared per mcf of gas produced (gross annual volume of flared gas (mcf)/gross annual gas production (mcf)) ⁽¹⁾	0.01%	0.05%
Volume of gas flared per barrel of oil equivalent produced (gross annual volume of flared gas (mcf)/gross annual production (boe)) ⁽¹⁾	0.001	0.002

(1) Emissions estimate developed under the EPA's Greenhouse Gas Reporting Program (operated onshore production, Brazos Valley sand mine, and gathering and boosting facilities).

Spills	2021	2020
Spill intensity (produced liquids spilled (bbl)/total produced liquids (mbbl))	0.030	0.008

Water Use	2021	2020
Freshwater intensity (freshwater consumed (bbl)/gross annual production (boe))	0.16	0.19
Water recycle rate (water recycled (bbl)/total water consumed (bbl))	0.021	0.024
Does your company use WRI Aqueduct, GEMI, Water Risk Filter, Water Risk Monetizer, or other comparable tool or methodology to determine the water-stressed areas in your portfolio?	WRI Aqueduct Water Risk Atlas	WRI Aqueduct Water Risk Atlas

Safety	2021	2020
Employee TRIR (# of employee OSHA recordable cases x 200,000/annual employee workhours)	0.17	0.40
Contractor TRIR (# of contractor OSHA recordable cases x 200,000/annual contractor workhours)	0.64	0.38
Combined TRIR (# of combined OSHA recordable cases x 200,000/annual combined workhours)	0.51	0.39

AXPC ESG Metrics

Supporting Data	2021	2020
Gross annual oil production (bbl)	44,222,274	64,000,576
Gross annual gas production (mcf)	2,176,835,712	1,527,120,659
Gross annual production (boe)	407,028,226	318,520,686
Gross annual production (mboe)	407,028	318,521
Gross annual production (as reported under Subpart W of EPA's GHG Reporting Program (mboe))	406,788	309,070
Total produced liquids (mdbl)	84,817	107,642
Produced liquids spilled (bbl)	2,522	912
Freshwater consumed (bbl)	64,971,579	58,840,469
Recycled water (bbl)	3,741,527	2,852,345
Total water consumed (bbl)	68,713,106	61,727,834
Employee OSHA recordable cases	3	10
Contractor OSHA recordable cases	29	22
Combined OSHA recordable cases	32	32
Annual employee workhours	3,471,996	4,997,926
Annual contractor workhours	9,034,605	11,478,181
Annual combined workhours	12,506,601	16,476,107

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