Performance Metrics. . 56

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DATA

Performance Metrics

Company Profile	2023	2022	2021
Operated wells	~2,800	~6,000	~5,700
Proved reserves (bcfe)	9,688	13,002	9,573
Taxes incurred (state and federal) ⁽¹⁾	\$474 million	\$323 million	\$211 million

Health and Safety	2023	2022	2021
Serious Injury and Fatality (SIF) Events (Actual)	0	_	_
Employee Total Recordable Incident Rate (TRIR)	0.12	0.16	0.17
Employee Lost Time Incident Rate (LTIR)	0.00	0.00	0.00
Employee Days Away, Restricted or Transferred (DART) rate	0.06	0.05	0.00
Employee fatalities	0	0	0
Contractor TRIR ⁽²⁾	0.14	0.25	0.43
Contractor LTIR ⁽²⁾	0.04	0.08	0.12
Contractor DART rate ⁽²⁾	0.08	0.10	0.21
Contractor fatalities	0	0	1
Combined TRIR (employee and contractor) ⁽²⁾	0.14	0.24	0.38
Motor vehicle accident rate	1.37	1.73	1.92

Workforce	2023	2022	2021
Employee headcount ⁽³⁾	~1,000	~1,200	~1,300
Women in workforce	29%	27%	25%
Board of Directors	14%	14%	14%
In leadership (supervisor level and above)	22%	19%	18%
Individual contributors	31%	28%	27%
Ethnic minorities in workforce	15%	22%	21%
Board of Directors	14%	14%	14%
In leadership (supervisor level and above)	6%	10%	10%
Individual contributors	17%	25%	24%
Communities	2022	2022	2021

Communities	2023	2022	2021
Charitable giving (financial) ⁽⁴⁾	~\$4 million	~\$5 million	\$874,136

For the 2022 reported value and forward taxes incurred will be reported on a net basis.
 Calculation methodology revised for 2023 to better reflect accepted industry practice. Historical years shown here have been recalculated utilizing the new methodology interpretation to allow for consistent comparison.
 To align with the 10-K filing the employee headcount has been rounded.
 The 2021 reported value reflects financial and in-kind contributions.

Performance Metrics continued

Environment	2023	2022	2021
Scope 1 GHG emissions (million metric tons $CO_2e^{)^{(1)}}$	0.80	1.73	1.83
Carbon dioxide (million metric tons)	0.63	1.13	1.09
Methane (million metric tons CO ₂ e)	0.17	0.59	0.74
Methane (% of Scope 1)	21%	34%	40%
Nitrous oxide (million metric tons CO ₂ e)	0.001	0.001	0.001
Scope 1 GHG emissions intensity (metric tons CO_2e / gross operated mboe produced) ⁽¹⁾	2.0	3.9	4.5
Scope 1 Methane emissions intensity (volume methane emissions / volume gross operated natural gas produced) ⁽¹⁾	0.02%	0.05%	0.07%
Scope 1 GHG emission sources (metric tons $\rm CO_2 e)^{(1)}$	799,373	1,732,233	1,827,307
Flared hydrocarbons (metric tons CO ₂ e)	0	9,836	24,327
Other combustion (metric tons CO_2e)	627,834	1,119,159	1,050,328
Process emissions (metric tons CO_2e)	4,574	13,927	20,323
Other vented emissions (metric tons CO ₂ e)	151,204	552,751	696,120
Fugitive emissions (metric tons CO ₂ e)	15,763	23,789	32,334
Scope 2 GHG emissions (million metric tons $\rm CO_2e)^{(2)}$	0.004	0.053	0.057
Scope 1 and Scope 2 GHG emissions intensity (metric tons CO_2e / gross operated mboe produced)	2.1	4.1	4.6
Scope 3 GHG emissions (million metric tons CO ₂ e) ⁽³⁾	67	82	59

2022 Scope 1 GHG emissions are restated herein after a recent revision to our EPA Greenhouse Gas Reporting.

Environment	2023	2022	2021
Total water consumed (bbl)	102,955,213	105,081,543	68,713,106
Water efficiency rate (water used (bbl) / gross boe produced)	0.25	0.23	0.17
Freshwater intensity rate (fresh water consumed (bbl) $/{\rm gross}$ boe produced)	0.23	0.22	0.16
Total volume of produced water recycled / reused (bbl)	6,324,407	5,623,532	3,741,527
Water recycling rate (water recycled (bbl) / total water consumed (bbl)) $^{\mbox{\tiny (4)}}$	0.061	0.054	0.055
Total fresh water withdrawn from regions with high or extremely high baseline water stress (bbl) ⁽⁵⁾	0	0	0
Hydrocarbon spills greater than 1 bbl outside of secondary containment (number of spills)	17	64	45
Hydrocarbon spills greater than 1 bbl outside of secondary containment (bbl)	471	2,187	1,258
Hydrocarbon spills greater than 1 bbl outside of secondary containment (percent recovered)	84%	96%	57%
Non-hydrocarbon spills greater than 1 bbl outside of secondary containment (number of spills)	34	83	54
Non-hydrocarbon spills greater than 1 bbl outside of secondary containment (bbl)	1,194	1,754	1,681
Non-hydrocarbon spills greater than 1 bbl outside of secondary containment (percent recovered)	97%	82%	92%
Spill intensity (produced liquids spilled (bbl) / total produced liquids (mbbl))	0.035	0.049	0.031

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 revisions or changes in categorization could affect data after publication.

(1) Emissions estimate developed under the EPA's Greenhouse Gas Reporting Program (operated onshore production).

(2) Chesapeake calculates its reported emissions using EPA eGRID subregion emissions factors.

(2) Chesapeake calculates its reported emissions using EFA eGRIU Subregion emissions factors.
 (3) Chesapeake reports our estimated indirect Scope 3 emissions on an equity basis using Category 11 of the Estimating petroleum industry value chain (Scope 3) greenhouse gas emissions reporting guidance developed by Ipieca / API (2016). The calculation methodology applies the EPA's emission factors for listed fuel types, representing indirect end use greenhouse gas emissions of the products created from our crude oil and natural gas.
 (4) Calculation methodology revised for 2022 reporting to better reflect actual performance. Historical years shown here have been recalculated consistent with the new methodology to allow for consistent comparison.
 (5) Volumes reported are based on World Resource Institute's Aqueduct Water Risk Atlas annual water stress criteria.

American Exploration and Production Council (AXPC) ESG Metrics

Greenhouse Gas Emissions	2023	2022	2021
Scope 1 GHG emissions (metric tons CO ₂ e)	799,373	1,719,462	1,823,433
Scope 1 GHG intensity (GHG emissions (metric tons CO2e) / gross annual production as reported under Subpart W of EPA's GHG Reporting Program (mboe))	2.0	3.9	4.5
Percent of Scope 1 GHG emissions attributed to boosting and gathering segment	0	0.40%	0.33%
Scope 2 GHG emissions (metric tons CO ₂ e) ⁽¹⁾	3,564	52,957	56,920
Scope 1 and Scope 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))	2.1	4.1	4.6
Scope 1 methane emissions (metric tons CH ₄)	6,783	23,481	29,539
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))	0.02	0.05	0.07
Percent of Scope 1 methane emissions attributed to boosting and gathering segment	0	0.71%	0.33%
2022 Scope 1 GHG emissions are restated herein after a recent revision to our EPA Greenhouse Gas Reporting.			
Flaring	2023	2022	2021
Gross annual volume of flared gas (mcf)	0	116,204	293,595
Percentage of gas flared per mcf of gas produced (gross annual volume of flared gas (mcf) / gross annual gas production (mcf)) ⁽²⁾	0%	<0.01%	0.01%
Volume of gas flared per barrel of oil equivalent produced (gross annual volume of flared gas (mcf) / gross annual production (boe)) ⁽²⁾	0	<0.001	0.001
Spills	2023	2022	2021
Spill intensity (produced liquids spilled (bbl) / total produced liquids (mbbl)	0.035	0.049	0.031
Water Use	2023	2022	2021
Freshwater intensity (fresh water consumed (bbl) / gross annual production (boe))	0.23	0.22	0.16
Water recycle rate (water recycled (bbl) / total water consumed (bbl))	0.061	0.054	0.055
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	WRI Aqueduct Water Risk Atlas

American Exploration and Production Council (AXPC) ESG Metrics continued

Safety	2023	2022	2021
Employee TRIR (# of employee OSHA recordable cases x 200,000 / annual employee workhours)	0.12	0.16	0.17
Contractor TRIR (# of contractor OSHA recordable cases x 200,000 / annual contractor workhours) ⁽¹⁾	0.14	0.25	0.43
Combined TRIR (# of combined OSHA recordable cases x 200,000 / annual combined workhours) ⁽¹⁾	0.14	0.24	0.38
Supporting Data	2023	2022	2021
Gross annual oil production (bbl)	14,474,745	33,939,034	44,222,274
Gross annual gas production (mcf)	2,418,748,356	2,523,394,286	2,176,835,712
Gross annual production (boe)	417,599,471	454,504,748	407,028,226
Gross annual production (mboe)	417,599	454,505	407,028
Gross annual production – as reported under Subpart W of EPA's GHG Reporting Program (mboe)	391,274	440,343	406,788
Total produced liquids (mbbl)	43,062	70,219	84,817
Produced liquids spilled (bbl)	1,511	3,461	2,630
Freshwater consumed (bbl)	96,630,806	99,458,011	64,971,579
Recycled water (bbl)	6,324,407	5,623,532	3,741,527
Total water consumed (bbl)	102,955,213	105,081,543	68,713,106
Employee OSHA recordable cases	2	3	3
Contractor OSHA recordable cases	19	36	29
Combined OSHA recordable cases	21	39	32
Annual employee workhours	3,226,175	3,731,607	3,469,674
Annual contractor workhours ⁽¹⁾	26,635,894	28,646,188	13,344,354
Annual combined workhours ⁽¹⁾	29,862,069	32,377,795	16,814,028

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 revisions or changes in categorization could affect data after publication.

Data Verification Statement

Independent Limited Assurance Report to Chesapeake Energy Corporation

ERM Certification & Verification Services Incorporated ("ERM CVS") was engaged by Chesapeake Energy Corporation ("Chesapeake") to provide limited assurance in relation to the selected information set out below and presented in the 2023 Chesapeake Energy Sustainability Report (the "Report").

Engagement Summary		Engagement Summary		
	 Whether the selected ESG data for the following selected disclosures are fairly presented in the Report, in all material respects, in accordance with the reporting criteria. Greenhouse Gas Emissions: Scope 1 GHG emissions (million metric tonnes CO₂e) Scope 1 GHG emissions intensity (metric tonnes CO₂e/ gross operated mboe produced) Scope 1 methane emissions intensity (volume methane emissions/volume gross natural group and used) 	Reporting criteria	 Chesapeake Energy's Basis of Reporting (BoR) EPA's Mandatory Greenhouse Gas (GHG) Reporting Rule (40 CFR Part 98 Subparts W and C) SASB Oil & Gas – Exploration & Production Sustainability Accounting Standard, version 2023-12 SASB Oil & Gas – Midstream Sustainability Accounting Standard, version 2023-12 Ipieca Sustainability Reporting Guidance for the Oil and Gas Industry, 4th edition, 2020 	
Scope of our assurance engagement	gas produced) gas produced) • Scope 2 GHG emissions (location-based) (million metric tonnes CO ₂ e) • Scope 1 & 2 GHG emissions intensity (metric tonnes CO ₂ e/ gross operated mboe produced) of our rice ment Health & Safety: • Employee Total Recordable Incident Rate (TRIR) (# of employee OSHA recordable cases x 200,000 / annual employee workhours) • Assurance standard and level of assurance • Contractor Total Recordable Incident Rate (TRIR) (# of contractor OSHA recordable cases x 200,000 / annual employee workhours) • Contractor Total Recordable Incident Rate (TRIR) (# of combined OSHA recordable cases x 200,000 / annual employee workhours) • Combined Total Recordable Incident Rate (TRIR) (# of combined OSHA recordable cases x 200,000 / annual combined workhours) • Net Spill Intensity (volume of produced liquid spills* minus recovered volume per total volume of produced liquid spills >1 barrel ("bbl") • Produced liquid spills >1 barrel ("bbl") • Respective responsibilities mg period 1st January 2023 to 31st December 2023 1st January 2023 to 31st December 2023 • • • • • • • • • • • • • • • • • • •	We performed a limited assurance engagement, in accordance with the International Standard on Assurance Engagements ISAE 3000 (Revised) 'Assurance Engagements other than Audits or Reviews of Historical Financial Information' issued by the International Auditing and Assurance Standards Board. The procedures performed in a limited assurance engagement vary in nature and timing from and are less in extent than for a reasonable assurance engagement and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assur- ance that would have been obtained had a reasonable assurance engagement been performed.		
Reporting period		Chesapeake is responsible for preparing the Report for the collection and presentation of the information within it and for the designing, implementing, and maintaining of internal controls relevant to the preparation and presentation of the selected information. ERM CVS' responsibility is to provide a conclusion to Chesapeake on the agreed scope based on our engagement terms with Chesapeake the assurance activities performed and exercising our professional judgment.		

Our conclusion

Based on our activities, as described below, nothing has come to our attention to indicate that the 2023 data and information for the disclosures listed under 'Scope' above are not fairly presented in the Report, in all material respects, in accordance with the reporting criteria.

Our assurance activities

Considering the level of assurance and our assessment of the risk of material misstatement of the selected information a multi-disciplinary team of sustainability and assurance specialists performed a range of procedures that included, but were not restricted to, the following:

- Evaluating the appropriateness of the reporting criteria for the selected information;
- Interviewing management representatives responsible for managing the selected issues;
- Interviewing relevant staff to understand and evaluate the management systems and processes (including internal review and control processes) used for collecting and reporting the selected disclosures;
- Conducting a review of a sample of qualitative and quantitative evidence supporting the reported information at a corporate level;
- Performing an analytical review of the year-end data submitted by all locations included in the consolidated 2023 group data for the selected disclosures which included testing the completeness and mathematical accuracy of conversions and calculations, and consolidation in line with the stated reporting boundary;
- Conducting virtual visits to the Marcellus and Haynesville basin operations and interviews with Corporate Health & Safety personnel to review source data and local reporting systems and controls;
- Evaluating the conversion and emission factors and assumptions used;
- Reviewing the presentation of information relevant to the scope of our work in the Report to ensure consistency with our findings.

The limitations of our engagement

The reliability of the assured information is subject to inherent uncertainties, given the available methods for determining, calculating, or estimating the underlying information. It is important to understand our assurance conclusions in this context.

Our independence, integrity, and quality control

ERM CVS is an independent certification and verification body accredited by UKAS to ISO 17021:2015. Accordingly, we maintain a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards, and applicable legal and regulatory requirements. Our quality management system is at least as demanding as the relevant sections of ISQM-1 and ISQM-2 (2022).

ERM CVS applies a Code of Conduct and related policies to ensure that its employees maintain integrity, objectivity, professional competence, and high ethical standards in their work. Our processes are designed and implemented to ensure that the work we undertake is objective, impartial, and free from bias and conflict of interest. Our certified management system covers independence and ethical requirements that are at least as demanding as the relevant sections of the IESBA Code relating to assurance engagements.

ERM CVS has extensive experience in conducting assurance on environmental, social, ethical, and health and safety information, systems, and processes, and provides no consultancy-related services to Chesapeake in any respect.

Hatherd. Moon

Heather I. Moore Partner, Corporate Assurance Malvern, PA

Issued June 7, 2024

On behalf of: ERM Certification & Verification Services Incorporated www.ermcvs.com | post@ermcvs.com

