



 **RANGE RESOURCES®**

Corporate
Sustainability Report
2024-2025

ENVIRONMENTAL STEWARDSHIP



Achieved Net Zero Scope 1 and 2 GHG emissions through direct emissions reductions and verified carbon offsets



43% reduction in GHG emission intensity since 2019



83% reduction in methane emissions intensity since 2019



Expanded "A" grade MiQ certification to include all Pennsylvania production



33% reduction in total number of reportable spills \geq 1 bbl compared to 2023



Recycled approximately 100% of flowback and produced water generated from our operations

SAFETY LEADERSHIP



0.17 Employee Days Away, Restricted, or Transferred (DART) Rate



0.33 Employee Total Recordable Incident Rate (TRIR)



Range employees completed more than 3,000 hours of safety training

HUMAN CAPITAL MANAGEMENT



Average employee tenure of ~10 years



Managers completed 1,122 hours of leadership/management training



Employees completed 16.8 hours of training on average

RESPONSIBLE GOVERNANCE



Earned an "AA" MSCI ESG Rating



Ranked first among Appalachian producers and outperformed or met the industry averages in all five categories of JUST Capital's Most JUST Companies rankings



Named to Newsweek's list of America's Most Responsible Companies for the fourth consecutive year

COMMUNITY IMPACT



Paid over \$21.5 million in impact fees in 2024 and over \$5 billion to date in impact fees, royalty and lease payments, and charitable contributions benefiting Pennsylvania communities



Invested \$1.2 million into our communities, including \$213,500 to first responders through Range's Good Neighbors Fund



Range employees volunteered a Company record 3,100+ hours in support of community organizations



Awarded grants to 449 local grassroots nonprofit organizations

Performance Indicators

In 2020, Range Resources completed the sale of our North Louisiana and conventional assets. To enable benchmarking of data for this and future reports, 2020 environmental data excludes data from these assets. Prior year data has not been restated and reflects ownership of the assets.

	EMISSIONS**					
	2024	2023	2022	2021	2020	2019
Total Direct GHG Emissions (metric tons CO ₂ e)	195,199	202,525	193,449	206,535	182,118	366,280
GHG Emissions Intensity (metric tons CO ₂ e/Mmcfe)	0.25	0.26	0.25	0.27	0.23	0.44
Greenhouse Gas Emissions by Gas Type						
CO ₂ Emissions (metric tons)	171,103	161,664	148,178	153,361	142,680	213,890
CH ₄ Emissions (metric tons CO ₂ e)	23,917	40,669	45,095	52,992	39,270	152,063
N ₂ O Emissions (metric tons CO ₂ e)	179	193	176	182	168	327
CH ₄ Emissions (metric tons)	854	1,627	1,804	2,120	1,571	6,083
CH ₄ Emissions intensity (as % from total gas production from wells) (Figure 6.1)	0.0067%	0.0131%	0.0147%	0.0169%	0.0124%	0.0398%
Greenhouse Gas Emissions by Source (CO₂e)						
Energy/Combustion Emissions	156,794	149,856	133,771	136,265	125,493	181,892
Other Vented Emissions	11,674	23,641	22,891	31,525	21,443	76,055
Fugitive Emissions	4,403	4,931	5,633	5,084	4,707	47,843
Emissions from Flared Hydrocarbons	18,753	15,447	18,194	21,320	20,863	33,054
Process Emissions	3,576	8,650	12,960	12,340	9,612	27,436
Indirect Emissions (Scope 2) (metric tons CO ₂ e)	2,854	2,211	2,097	1,258	2,807	2,276

EMISSIONS**						
	2024	2023	2022	2021	2020	2019
Sources of Flared Hydrocarbons						
Volume of Hydrocarbon Flared in PA (Mmcfe)	247.9	201.8	231.35	274.51	277.53	253.64
Volume of Hydrocarbon Flared in LA (Mmcfe)	N/A	N/A	N/A	N/A	N/A	82.82
Total Quantity of Hydrocarbon Gas Flared (Mmcfe)	247.9	201.8	231.35	274.51	277.53	336.46
GHG Emissions due to Flaring (MT CO ₂ e)	18,753	15,455	18,194	21,320	20,863	33,054
Contribution to Overall GHG Emissions	10%	8%	9%	11%	11%	9%
Other Air Pollutants						
NO _x Emissions (metric tons)	1,578	1,643	1,602	1,767	1,335	3,327
VOC Emissions (metric tons)	341	441	566	620	1,327	3,182
PM ₁₀ Emissions (metric tons)	22.0	21.8	19.6	20.8	18.8	65.6
SO _x Emissions (metric tons)	2.6	2.3	1.7	2.1	2.1	10.0
HISTORICAL PRODUCTION EMISSIONS AND PRODUCTION INTENSITY						
	2024	2023	2022	2021	2020	2019
Net Production (Mmcfe)	796,201	780,560	773,304	777,205	776,786	833,354
Production-only Emissions (MT CO ₂ e) (excluding boosting and gathering)	195,013	199,958	190,698	203,855	179,656	329,799
Production GHG Intensity (MT CO ₂ e/Mmcfe)	0.24	0.26	0.25	0.26	0.23	0.40
Total GHG Emissions (including boosting and gathering)*	195,199	202,525	193,449	206,535	182,118	366,280

WATER						
All figures expressed in cubic meters (m3)	2024	2023	2022	2021	2020	2019
Fresh Water Withdrawn						
Pennsylvania	1,704,496	1,817,129 †	983,550	1,577,846	1,891,605	3,068,620
Louisiana	N/A	N/A	N/A	N/A	N/A	338,709
Total Fresh Water Withdrawn	1,704,496	1,817,129 †	983,550	1,577,846	1,891,605	3,407,324
Total Fresh Water Used	1,752,316	1,631,292	896,451	1,614,767	1,536,474	3,223,961
Fresh Water Withdrawn by Source						
Pennsylvania – Surface Water	1,245,516	842,362	337,828	438,408	797,097	1,743,466
Pennsylvania – Municipal Water	458,980	974,767 †	645,722	1,139,438	1,094,508	1,325,152
Louisiana - Surface Water	N/A	N/A	N/A	N/A	N/A	338,709
Reuse Water (including from other operators)						
Pennsylvania	2,119,057	2,215,982 †	2,347,085	2,585,908	2,532,961	2,440,094
Pennsylvania - Containment/Rainwater	87,594	15,240	539,541	75,234	94,777	18,855
Louisiana	N/A	N/A	N/A	N/A	N/A	0
Total Water Used						
Total Water Used Fresh Water, Reuse, Containment	3,958,967	3,862,514 †	3,783,077	4,275,909	4,164,212	5,682,914

WATER						
All figures expressed in cubic meters (m3)	2024	2023	2022	2021	2020	2019
Pennsylvania Water Recycling Program						
PA Flowback and Produced Water Generated	1,700,988	1,778,712	1,653,995	1,758,940	1,775,265	1,658,132
Range-Generated PA Flowback Water Reused	1,695,434	1,774,301	1,650,345	1,756,087	1,771,784	1,644,561
Percentage of Range-Generated PA Flowback Reused	99.67%	99.75%	99.78%	99.84%	99.80%	99.20%
Total Reuse Water (other operators and containment)	2,206,651	2,231,222 †	2,886,626	2,661,142	2,627,738	2,458,953
Total Reuse Water as Percentage of Total Water Used	56%	58% †	76%	62%	63%	44%

SPILLS						
	2024	2023	2022	2021	2020	2019
Number of Hydrocarbon Releases ≥ 1 bbl	0	0	1	3	1	7
Volume of Hydrocarbon Releases ≥ 1 bbl (in bbl)	0	0	1.4	8.5	2.0	44.5
Number of Non-Hydrocarbon Releases ≥ 1 bbl	2	3	4	3	3	13
Volume of Non-Hydrocarbon Releases ≥ 1 bbl (in bbl)	4.4	14	11.9	20.8	6.4	229.8
Number of Total Spills Resulting in Release ≥ 1 bbl	2	3	5	6	4	20
Volume Total Spills Resulting in Release ≥ 1 bbl (in bbl)	4.4	14	13.3	29.3	8.4	274.3

WASTE						
	2024	2023	2022	2021	2020	2019
Hazardous Waste (tons)	0	0	0	0	0	0
Non-Hazardous Waste						
Reuse Water (m ³)	2,119,057	2,215,982 †	2,347,085	2,585,908	2,532,961	2,440,094
Recycled	0	0	0	0	0	0
Recovered	0	0	0	0	0	0
Composting	0	0	0	0	0	0
Incineration	0	0	0	0	0	0
Landfill (tons)	108,862	97,077	89,684	99,341	103,278	210,000
On-site Storage	0	0	0	0	0	0

HEALTH AND SAFETY						
	2024	2023	2022	2021	2020	2019
Range Employees Total Recordable Injury Rate	0.33	0.00	0.17	0.18	0.30	0.62
Range Employees Days Away, Restricted, or Transferred	0.17	0.00	0.00	0.00	0.30	0.00
Employee Fatalities	0	0	0	0	0	0
Number of Contractor Reportable Incidents	8	6	8	17	5	25
Contractor Fatalities	0	0	0	0	0	0
Recordable Preventable Vehicle Incident Rate	2.81	1.58	3.88	2.48	1.79	3.50
Contractor Total Recordable Injury Rate	0.67	0.52	0.60	1.46	0.40	1.44
Contractor Days Away, Restricted, or Transferred	0.17	0.43	0.15	0.34	0.24	0.40

ECONOMIC ⁸						
	2024	2023	2022	2021	2020	2019
Total Revenues and Other Income	\$2.4 billion	\$3.4 billion	\$4.1 billion	\$2.9 billion	\$2.0 billion	\$2.8 billion
Production						
Natural Gas (Mmcf)	545,416	538,085	539,443	541,021	574,529	548,085
Natural Gas Liquids (MBbls)	39,623	37,940	36,392	36,373	37,492	38,850
Crude Oil and Condensate (MBbls)	2,181	2,475	2,716	3,044	2,829	3,690
Total (Mmcfe) ¹	796,235	780,575	774,089	777,523	816,456	833,354

* 2020 production and average sales prices include the results of our North Louisiana assets, which were sold in August 2020.

** Emissions calculated in accordance with U.S. EPA's GHG reporting regulations in effect for the 2024 reporting year.

† We updated several categories of 2023 water data to reflect usage in our operations during the calendar year.

¹ Oil and NGLs volumes are converted at the rate of one barrel equals six Mcf based upon the approximate relative energy content of oil to natural gas, which is not indicative of the relationship between oil and natural gas prices.

⁸ For further information on Average Sales Price and Proved Reserves, please refer to our most recent [Form 10-K](#) filed with the SEC on February 25, 2025

Alternative Calculations

The table below compares how Range Resources calculates Scope 1 emissions by source with an alternative calculation method.

For purposes of this report, we use the AXPC's definition of "flaring," which is the flaring of wellhead gas from the primary separator at assets operated by Range Resources. This definition of flaring specifically does not include:

- I. combustion of low-pressure gas volumes from crude oil/condensate and produced water storage vessels or other low-pressure separators for the purpose of controlling emissions, or
- II. flaring from drilling and/or well completion, which are either:

- III. exempt from reporting to the EPA process emissions. (e.g., flaring gas during the drill-out phase of completing a well), or
- IV. disclosed in our EPA emissions inventory reports under emissions from other sources (e.g., flaring associated with the operation of z is captured under combustion emissions, and flaring associated with the operation of glycol dehydrators is captured under process emissions). For further discussion of our venting and flaring practices, see [Flaring](#).

	EMISSIONS			
	2024: As Displayed in Report	2024: Alternate Calculation	2023: As Displayed in Report	2023: Alternate Calculation
Total Direct GHG Emissions (metric tons CO ₂ e)	195,199	195,199	202,525	202,525
GHG Emissions Intensity (metric tons CO ₂ e/Mmcfe)	0.25	0.25	0.26	0.26
Greenhouse Gas Emissions by Source (CO₂e)				
Energy/Combustion Emissions	156,794	164,844	149,856	156,410
Other Vented Emissions	11,674	11,674	23,641	23,633
Fugitive Emissions	4,403	4,403	4,931	4,931
Emissions from Flared Hydrocarbons	18,753	0	15,447	8
Process Emissions	3,576	14,278	8,650	17,543

AXPC ESG Metrics

The table below presents our performance in alignment with the AXPC ESG Metrics Framework, which provides standardized definitions and methodologies for key ESG indicators relevant to upstream oil and gas operations, including emissions, flaring, water use, spills, and safety.



	2024	2023	2022
Greenhouse Gas Emissions			
Scope 1 GHG Emissions (Metrics tons CO ₂ e)	195,199	202,525	193,449
Scope 1 GHG Intensity Scope 1 GHG Emissions (Metric tons CO ₂ e)/Gross Annual Production as Reported Under Subpart W (MBoe)	1.46	1.53	1.47
Percent of Scope 1 GHG Emissions Attributed to Boosting and Gathering Segment	0.095%	1%	1%
Scope 2 GHG Emissions (Metrics tons CO ₂ e)	2,854	2,211	2,097
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 (MBoe)	1.48	1.55	1.49
Scope 1 Methane Emissions (Metric tons CH ₄)	854	1,627	1,804
Scope 1 Methane Intensity Scope 1 Methane Emissions (Metric tons CH ₄)/Gross Annual Production - As Reported Under Subpart W (MBoe)	0.006	0.01	0.01
Percent of Scope 1 Methane Emissions Attributed to Boosting and Gathering Segment	0.8%	3%	3%

	2024	2023	2022
Flaring			
Gross Annual Volume of Flared Gas (Mcf)	0	109	0
Percentage of gas flared per Mcf of gas produced Gross Annual Volume of Flared Gas (Mcf)/Gross Annual Gas Production (Mcf)	0.00%	0.00%	0.00%
Volume of gas flared per barrel of oil equivalent produced Gross Annual Volume of Flared Gas (Mcf)/Gross Annual Production (Boe)	0.000	0.000	0.000
Spills			
Spill Intensity Produced Liquids Spilled (Bbl)/Total Produced Liquids (MBbl)	0.000	0.001	0.001
Water Use			
Fresh Water Intensity Fresh Water Used (Bbl)/Gross Annual Production (Boe)	0.083	0.078	0.043
Produced Water Recycle Rate Recycled Water (Bbl)/Total Water Used (Bbl)	55.7%	57.8% [‡]	62.0%
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?	Yes	Yes	Yes
Safety			
Employee TRIR # of Employee OSHA Recordable Cases x 200,000/Annual Employee Workhours	0.33	0.00	0.17
Contractor TRIR # of Contractor OSHA Recordable Cases x 200,000/Annual Contractor Workhours	0.67	0.52	0.60
Combined TRIR # of Combined OSHA Recordable Cases x 200,000/Annual Combined Workhours	0.56	0.34	0.47

[‡]We updated several categories of 2023 water data to reflect usage in our operations during the calendar year.

	2024	2023	2022
Supporting Data			
Gross Annual Oil Production (Bbl)	2,775,260	3,145,415	3,386,077
Gross Annual Gas Production (Mcf)	787,078,264	774,436,271	767,167,108
Gross Annual Production (Boe)	133,954,971	132,218,126	131,247,262
Gross Annual Production (MBoe)	133,955	132,218	131,247
Gross Annual Production - As Reported Under Subpart W (MBoe)	133,955	132,218	131,247
Total Produced Liquids (MBbl)	13,474	13,822	13,250
Produced Liquids Spilled (Bbl)	2	13	13
Fresh Water Used (Bbl)	11,021,739	10,260,518	5,638,507
Recycled Water (Bbl)	13,879,423	13,620,861	14,762,719
Total Water Used (Bbl)	24,901,161	23,977,236	23,794,838
Employee OSHA Recordable Cases	2	0	1
Contractor OSHA Recordable Cases	8	6	8
Combined OSHA Recordable Cases	10	6	9
Annual Employee Workhours	1,204,175	1,185,800	1,160,425
Annual Contractor Workhours	2,387,731	2,310,151	2,684,356
Methodology	Actuals	Actuals	Actuals
Annual Combined Workhours	3,591,906	3,495,951	3,844,781



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