

This report aligns our performance data with the recommendations of the Sustainable Accounting Standards Board (SASB) framework in the Oil and Gas – Refining and Marketing industry standard.

TOPIC	ACCOUNTING METRIC	CODE	2019 VALERO
Greenhouse Gas Emissions	Gross global Scope 1 emissions, percentage covered under emissions-limiting regulations	EM-RM-110a.1	24.8 million metric tons CO ₂ e 100%
	Discussion of long-term and short-term strategy or plan to manage Scope 1 emissions, emissions reduction targets, and an analysis of performance against those targets	EM-RM-110a.2	Valero plans to reduce global refining Scope 1 and 2 greenhouse gas (GHG) emissions per barrel of oil equivalent by 20% by 2025 (against 2011 levels) Valero further plans to reduce and offset 63% of its global refining Scope 1 and 2 GHG emissions by 2025 through lower absolute emissions and offsets generated by its low-carbon fuels, and renewable fuels blending and credits
Air Quality	Air emissions of the following pollutants: (1) NOx (excluding N ₂ O), (2) SOx, (3) particulate matter (PM ₁₀), (4) H ₂ S, and (5) volatile organic compounds (VOCs)	EM-RM-120a.1	(1) NOx: 8,700 metric tons (2) SOx: 8,800 metric tons (3) PM ₁₀ : 2,200 metric tons (5) VOCs: 7,700 metric tons
	Number of refineries in or near areas of dense population	EM-RM-120a.2	11
Water Management	1) Total fresh water withdrawn, (2) percentage recycled, (3) percentage in regions with High or Extremely High Baseline Water Stress	EM-RM-140a.1	(1) 164.1 million m ³ (2) 1,786% (3) 12.7%
Hazardous Materials Management	Amount of hazardous waste generated, percentage recycled	EM-RM-150a.1	Stewardship and Responsibility Report (page 27)
Workforce Health & Safety	(1) Total recordable incident rate (TRIR), (2) fatality rate, and (3) near miss frequency rate (NMFR) for (a) full-time employees and (b) contract employees	EM-RM-320a.1	(1)(a) Global refining TRIR Employee: 0.25 (1)(b) Global refining TRIR Contractor: 0.39 (2)(a) Global refining Fatality Rate Employee: 0.00 (2)(b) Global refining Fatality Rate Contractor: 0.00
	Discussion of management systems used to integrate a culture of safety	EM-RM-320a.2	Stewardship and Responsibility Report (pages 11-19)
Management of the Legal & Regulatory Environment	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	EM-RM-530a.1	Report on Climate-Related Risks and Opportunities Annual Report on Form 10-K, Item 1A (pages 10-18)
Critical Incident Risk Management	Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1) and lesser consequence (Tier 2)	EM-RM-540a.1	Tier 1 process safety: 0.05 Tier 2 process safety: 0.18
Activity Metric	Refining throughput of crude oil and other feedstocks	EM-RM-000.A	1,077 million barrels of oil equivalent (BOE)
	Refining operating capacity	EM-RM-000.B	3.15 million barrels per calendar day (MBPD)

Greenhouse Gas Emissions

EM-RM-110a.1:

- Actual global refinery GHG emissions (Scope 1) as reported and complying with applicable regulations in the United States, United Kingdom and Canada
- Percentage of global refinery GHG emissions (Scope 1) covered under an emissions-limiting regulation that is intended to directly reduce emissions, including the California Cap-and-Trade Program, European Union Emissions Trading Scheme, Quebec Cap-and-Trade System, and the U.S. federal New Source Review (NSR) permitting program for greenhouse gases

EM-RM-110a.2:

- Base year (2011) includes:
 - Prorated global refinery GHG emissions (Scope 1) associated with the acquisition of two refineries during the year 2011 as well as the emissions from a refinery that was active in 2011 and subsequently closed in 2012
 - GHG emissions (Scope 2) from purchased electricity and steam calculated using the GREET® (greenhouse gases, regulated emissions, and energy use in transportation) life cycle model
- Target year (2025) includes:
 - Estimated global refinery GHG emissions (Scope 1), and estimated GHG emissions (Scope 2) from purchased electricity and steam include the expected improvements derived from capital improvements and the energy grid, respectively
- Assumptions for base year and target year above were used for both the intensity target and the absolute/offset target
- GHG emissions reduction and offset target of 63% is the combination of: (1) the absolute reduction of global GHG emissions (Scope 1 and 2) by 2025 (against 2011); (2) the GHG emissions offset by the production of our ethanol and renewable diesel production; and (3) the GHG emissions offset by global blending of and credits purchased from renewable fuels. To avoid double counting, we are not including our production of renewable fuels when calculating the offset from blending and credits
- As the operator of the consolidated entity (Standards Application Guidance - 3.0 Reporting Boundaries), offsets include the entire production of renewable diesel

Air Quality

EM-RM-120a.2: global refineries located in or near areas of dense population, which are defined as urbanized areas with a population greater than 50,000

Water Management

EM-RM-140a.1: (1) Total fresh water withdrawn by global refining operations (fresh water with less than 1000 parts per million of dissolved solids); (2) water recycled divided by the volume of fresh water withdrawn. Water reused multiple times is counted as recycled each time it is recycled and reused; (3) fresh water withdrawn in locations with high (40-80%) or extremely high (>80%) baseline water stress (as defined by the World Resources Institute) as a percentage of the total refining fresh water withdrawn

Workforce Health & Safety

EM-RM-320a.1: (1)(a)(b) global refining employee and contractor total recordable incident rate (TRIR), which includes recordable injuries per 200,000 working hours, as defined by the U.S. Department of Labor's Occupational Safety and Health Administration; (2)(a)(b) fatality rate for work-related fatalities for global refining employees and contractors

Critical Incident Risk Management

EM-RM-540a.1: global refining Tier 1 process safety event (PSE) rates and Tier 2 PSE rates as defined by the American Petroleum Institute RP-754

Activity Metric

EM-RM-000.A and EM-RM-000.B: total combined average throughput volumes on an annual basis (See Valero 2019 Annual Report on Form 10-K)

Policies and Procedures

This presentation includes statements regarding various policies, values, standards, approaches, procedures, processes, systems, programs, initiatives, assessments, technologies, practices, and similar measures related to our operations and ESG and compliance systems ("Policies and Procedures"). References to Policies and Procedures in this presentation do not represent guarantees or promises about their efficacy or continued implementation, or any assurance that such Policies and Procedures will apply in every case. Such Policies and Procedures are subject to risks, uncertainties and other factors, some of which are beyond the control of Valero and are difficult to predict, and there may be exigent circumstances, factors, or considerations that may cause implementation of other measures or exceptions in specific instances. Please see Forward-Looking Statements below.

Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, including, but not limited to, statements about our Policies and Procedures. You can identify forward-looking statements by words such as "believe," "estimate," "expect," "seek," "could," "may," "will," "targeting," "goal," "plan," or other similar expressions that convey the uncertainty of future events or outcomes. These forward-looking statements are not guarantees of future performance or actions and are subject to risks, uncertainties and other factors, some of which are beyond the control of Valero and are difficult to predict. These statements are often based upon various assumptions, many of which are based, in turn, upon further assumptions, including examination of historical operating trends and market conditions made by the management of Valero. Although Valero believes that the assumptions were reasonable when made, because assumptions are inherently subject to significant uncertainties and contingencies, which are difficult or impossible to predict and are beyond its control, Valero cannot give assurance that it will achieve or accomplish its expectations, beliefs or intentions, or that any forward-looking statements will ultimately prove to be accurate. When considering these forward-looking statements, you should keep in mind the risk factors and other cautionary statements contained in Valero's filings with the Securities and Exchange Commission, including Valero's annual reports on Form 10-K, quarterly reports on Form 10-Q, and other reports available on Valero's website at www.valero.com. These risks could cause the actual results, actions and Policies and Procedures of Valero to differ materially from those contained in any forward-looking statement. We do not intend to update these statements unless we are required by the securities laws to do so.

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