11.2 SASB Report

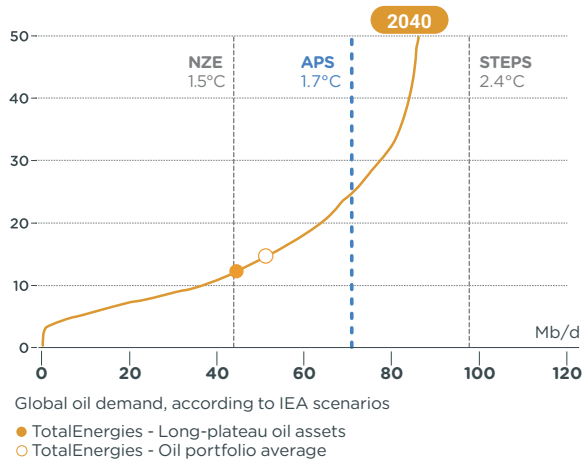
The reporting below presents a set of sustainable development indicators at Company level, based on the American SASB EM-EP standard (Oil & Gas – Exploration & Production). This report includes some of the elements of the Sustainability Report (chapter 5).

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Greenhouse Gas Emissions			
EM-EP-110a.1	Gross global Scope 1 emissions	Yes	**33 Mt CO_2e** (Source: 2024 URD, §5.2.1.3)
	Scope 1, percentage of methane	Yes	**0.8 Mt CO_2e (29 kt CH_4), *i.e.*, 3%** (Source: 2024 URD, §5.2.1.3)
	Scope 1, percentage covered under emissions-limiting regulations	Yes	**54%** (Source: 2024 URD, §5.2.1.3)
EM-EP-110a.2	Amount of gross global Scope 1 emissions from flared hydrocarbons	Yes	**3 Mt CO_2e**
	Amount of gross global Scope 1 emissions from other combustion	Yes	**25 Mt CO_2e**
	Amount of gross global Scope 1 emissions from process emissions	Yes	**4 Mt CO_2e**
	Amount of gross global Scope 1 emissions from other vented emissions	Yes	**0.5 Mt CO_2e**
	Amount of gross global Scope 1 emissions from fugitive emissions	Yes	**<0.1 Mt CO_2e**
EM-EP-110a.3	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	Yes	TotalEnergies has set targets and introduced a number of indicators to steer its performance (refer to point 5.2.1 of chapter 5) (Source: 2024 URD, §5.2.1)
Air Quality			
EM-EP-120a.1	Air emissions of the following pollutants: NO_X (excluding N_2O)	Yes	**57 kt** (Source: 2024 URD, §5.2.2.3)
	Air emissions of the following pollutants: SO_X	Yes	SO_2: **17 kt** (Source: 2024 URD, §5.2.2.3)
	Air emissions of the following pollutants: volatile organic compounds (VOCs)	Yes	NMVOCs: **35 kt** (Source: 2024 URD, §5.2.2.3)
	Air emissions of the following pollutants: particulate matter (PM_{10})	Yes	**3 kt** of total particulate matter (Source: 2024 URD, §5.2.2.3)

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Water Management			
EM-EP-140a.1	Total fresh water withdrawn	Yes	**92,000 megaliters** (Source: 2024 URD, §5.2.3.5)
	Percentage of fresh water withdrawn in regions with High or Extremely High Baseline Water Stress	Yes	**61%** (Source: 2024 URD, §5.2.3.5)
	Total fresh water consumed	Yes	**45,000 megaliters** (Source: 2024 URD, §5.2.3.5)
	Percentage of fresh water consumed in regions with High or Extremely High Baseline Water Stress	Yes	**58%**
EM-EP-140a.2	Volume of produced water and flowback generated	Yes	**129,265 megaliters** (indicator for EP segment only)
	Percentage discharged	Yes	**53%** (indicator for EP segment only)
	Percentage injected	Yes	**47%** (indicator for EP segment only)
	Percentage recycled	Yes	**0%** (indicator for EP segment only)
	Hydrocarbon content in discharged water	Yes	**Offshore: 11.2 mg/l** **Onshore: 2.0 mg/l** (Source: 2024 URD, §5.2.2.3)
EM-EP-140a.3	Percentage of hydraulically fractured wells for which there is public disclosure of all fracturing fluid chemicals used	Yes	**79%**
EM-EP-140a.4	Percentage of hydraulic fracturing sites where ground or surface water quality deteriorated compared to a baseline	Yes	**0%**
Biodiversity Impacts			
EM-EP-160a.1	Description of environmental management policies and practices for active sites	Yes	Information is presented in point 5.2.4 of chapter 5. (Source: 2024 URD, §5.2.4)
EM-EP-160a.2	Number of hydrocarbon spills	Yes	**24** (Source: 2024 URD, §5.2.2.3)
	Volume of hydrocarbon spills	Yes	**600 m^3 (3,774 barrels)** (Source: 2024 URD, §5.2.2.3)
	Spills: volume in Arctic	Yes	**0 m^3**
	Volume impacting shorelines with ESI rankings 8-10	Yes	**0 m^3**
	Volume recovered	Yes	**28 m^3 (176 barrels)** (Source: 2024 URD, §5.2.2.3)
EM-EP-160a.3	Percentage of (1) proved and (2) probable reserves in or near sites with protected conservation status or endangered species habitat	Yes	**10.1%** of proved reserves are operated reserves located in or near sites with protected conservation status or endangered species habitat
Security, Human Rights & Rights of Indigenous Peoples			
EM-EP-210a.1	Percentage of (1) proved and (2) probable reserves in or near areas of conflict	Yes	**12.2%** (proved reserves)
EM-EP-210a.2	Percentage of (1) proved and (2) probable reserves in or near indigenous land	Yes	**1.9%** of proved reserves are operated reserves located in or near indigenous land
EM-EP-210a.3	Discussion of engagement processes and due diligence practices with respect to human rights, indigenous rights, and operation in areas of conflict	Yes	Information available in points 3.6, 5.3.1.5 and 5.3.3.3. (Source: 2024 URD, §3.6, 5.3.1.5 and 5.3.3.3) The Company published a Human Rights Briefing Paper in 2016, updated in 2018, in accordance with the recommendations of the United Nations Guiding Principles Reporting Framework, which is available on its website. TotalEnergies was then the first company in the oil and gas industry to do this. The third edition of this Briefing Paper was released in January 2024.
Community Relations			
EM-EP-210b.1	Discussion of process to manage risks and opportunities associated with community rights and interests	Yes	Information available in point 5.3.3.3 of chapter 5. (Source: 2024 URD, §5.3.3.3)

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Community Relations			
EM-EP-210b.2	Number and duration of non-technical delays	No	Not aggregated at Company level.
Health & Safety for everyone			
EM-EP-320a.1	Total recordable incident rate (TRIR)	Yes	TRIR: number of recorded injuries per million hours worked – All Personnel **0.55** Company employees 0.44 Contractors' personnel 0.67 Which corresponds to: TRIR All personnel: **0.11** (per 200,000 hours worked) TRIR Company employees: **0.09** (per 200,000 hours worked) TRIR Contractors' employees: **0.13** (per 200,000 hours worked) Note: these rates do not include work-related illnesses (Source: 2024 URD, §5.3.1.2) Number of occupational illnesses recorded in 2024 for Company employees: **170** (Source: 2024 URD, §5.3.1.2)
	Fatality rate	Yes	**0.25** (per 100 million hours worked) Which corresponds to: **0.0005** (per 200,000 hours worked) (Source: 2024 URD, §5.3.1.2)
EM-EP-320a.2	Near miss frequency rate (NMFR)	Yes	Number of near miss and anomalies reported: **close to 1,000,000** Number of hours worked: **400 million** Which correspond to a NMFR (per 200,000 hours worked) of around: **500** (Source: 2024 URD, §5.3.1.2)
	Average hours of health, safety, and emergency response training for full-time employees	Yes	Number of average training days per employee: **4.1** (excluding on the job training) Percentage of training dedicated to HSE: **24%** (Source: 2024 URD, §5.3.1.3.B)
	Average hours of health, safety, and emergency response training for contract employees	No	Not available. We don't define training needs by individual contract status and categories of employees.
	Average hours of health, safety, and emergency response training for short-service employees	No	Not available. We don't define training needs by individual contract status and categories of employees.
	Discussion of management systems used to integrate a culture of safety throughout the exploration and production lifecycle	Yes	Information available in point 5.3.1.2. (Source: 2024 URD, §5.3.1.2)
Reserves Valuation & Capital Expenditures			
EM-EP-420a.1	Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions	Yes	Resilience of the organization's strategy TotalEnergies has strengthened the resilience of its portfolio through very active portfolio management in recent years: the Upstream portfolio has seen a 50% portfolio change since 2015, ensuring an oil reserves replacement ratio above 100% over 2015-2024. The portfolio has a low breakeven point, in line with the Company's strategic objective of keeping it below $30/b (the Company's organic cash breakeven point before dividends is $25.4/b in 2024), which ensures the competitiveness of its resources. In particular, for its Upstream Oil & Gas assets in 2024, TotalEnergies has the lowest production cost per barrel of around $4.9/boe among its peers(1) and its GHG emissions intensity (Scope 1+2) is falling to 17 kg CO_2e/boe in 2024(2). Furthermore, the average life of the Company's proved and probable Oil & Gas reserves is 18.5 years, and the discounted value of its Upstream Oil & Gas assets of more than 18.5 years represents less than 15% of their total value.

(1) Peers: BP, Chevron, ExxonMobil, Shell.
(2) Oil & Gas Upstream intensity is calculated excluding integrated LNG assets.

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Reserves Valuation & Capital Expenditures			
EM-EP-420a.1	Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions	Yes	**Risks of stranded assets** In June 2020, TotalEnergies determined that among its Upstream assets, only the Fort Hills and Surmont oil sands projects in Canada could be classified as stranded assets, meaning assets with reserves beyond 20 years and high production costs, whose overall reserves might therefore not be produced by 2050. TotalEnergies has sold these assets in 2023. This portfolio management approach allows TotalEnergies to mitigate the risk of stranded assets in the future if the risks of a structural decline in demand for Oil & Gas materialize faster than estimated as a result of stricter global environmental regulations and constraints and the resulting changes in consumer preferences. As shown on the merit order curve of production costs for 2040, compared to the demand expected under various IEA scenarios, TotalEnergies' portfolio of Upstream Oil & Gas projects has an average technical cost that places it among the 50 Mb/d lowest-cost for these horizons, thanks in particular to long plateau oil & gas assets with low production costs. **Merit Curve of Global Oil Production Cost**(1) **Technical cost, $/b**  **Sensitivity to CO_2, Oil & Gas prices** TotalEnergies assesses the robustness of its portfolio, including new material investments, based on relevant scenarios and sensitivity tests. Each material investment, including in the exploration, acquisition or development of Oil & Gas resources, as well as in other energies and technologies, is reviewed taking into account a Brent price scenario at $50/b and Henry Hub at $3/Mbtu, i.e. prices lower than those of the IEA APS scenario deemed to be compatible with the objectives of the Paris Agreement; every new investment enhances the resilience of the Company's portfolio. Even though CO_2 pricing does not currently apply in all the countries where the Company operates, TotalEnergies includes as base case in its investment criteria a minimum CO_2 price of $100/t (or the prevailing price in a given country, if higher) and beyond 2030, the CO_2 price is increased by 2%/year. Assuming a CO_2 price of $200/ton from 2024 and an annual increase of 2% beyond 2030, i.e. an increase of $100/ton compared to the base case scenario, TotalEnergies estimates a negative impact of around 15% on the discounted present value of all its assets (Upstream and Downstream).

(1) Source: Rystad, IEA WEO 2024 scenarios.

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Reserves Valuation & Capital Expenditures			
EM-EP-420a.1	Sensitivity of hydrocarbon reserve levels to future price projection scenarios that account for a price on carbon emissions	Yes	Compared with the reference scenario used to evaluate investments (Brent at $50/b), TotalEnergies evaluated the impact on the present value of its assets (Upstream and Downstream) of using the NZE price scenario published by the IEA(1) in 2024. Such a scenario would reduce the present value of all of the Company's assets (Upstream and Downstream) by around 10% compared to its reference scenario used to assess its investments. **Impairment of Upstream assets** In addition, to ensure robust accounting of its assets in the balance sheet, the Company calculates the impairment of its Upstream assets on the basis of an oil price trajectory that remains sustained at 70_{2024}$/b until 2030, then decreases linearly to reach 50_{2024}$/b in 2040, and then decreases from 2040 onwards to the price adopted in 2050 by the IEA's NZE scenario, i.e. 25.8_{2024}$/b. Gas prices retained in Europe and Asia decline and stabilise from 2027 until 2040 at respectively 8_{2024}$/MBtu and 9_{2024}$/MBtu at levels lower than current prices; the Henry Hub remaining at 3_{2024}$/MBtu over the period 2025-2040. They then all converge towards the prices in the IEA's NZE scenario in 2050. (Source: 2024 URD, §5.2.1.1 B) **Unconventional Oil & Gas** Unconventional Oil & Gas are defined by the EIA (United States)(2) as hydrocarbons that are "*produced by means that do not meet the criteria for conventional production*" ie "*by a well drilled into a geologic formation in which the reservoir and fluid characteristics permit the oil and natural gas to readily flow to the wellbore*." According to UNFC(3), "*examples include CBM, low permeability deposits such as tight gas (including shale gas) and tight oil (including shale oil), gas hydrates and natural bitumen*". In 2024, these non-conventional hydrocarbons, essentially gas, accounted for 7% of the Company's production and less than 5% of it consolidated turnover. In addition, TotalEnergies no longer produces oil from tar sands since the divestment of its Surmont and Fort Hills Canadian assets at the end of 2023. In line with its integration strategy in the LNG chain, TotalEnergies acquired stakes in 2024 in fields of the Eagle Ford Basin in the United States, including the Dorado field. The latter displays an emission intensity of around 10 kg CO_2e/boe.
EM-EP-420a.2	Estimated carbon dioxide emissions embedded in proved hydrocarbon reserves	Yes	**3.6 Gt CO_2e**
EM-EP-420a.3	Amount invested in renewable energy, revenue generated by renewable energy sales	Yes	Data are available in chapter 5.2.6.3 of 2024 URD for the three financial indicators: turnover ("Turnover"), capital expenditures ("CapEx") and operating expenditures ("OpEx"), within the meaning of the Taxonomy regulation, on the scope of entities exclusively controlled and consolidated by TotalEnergies SE, for the year 2024. Renewable energy related activities are considered to be the following: – renewable electricity generation (using solar photovoltaic technology / from wind power / from hydropower / storage): 4.1, 4.3, 4.5, 4.10, – manufacture of biogas/biofuels for use in transport, and of bioliquids: 4.13, – anaerobic digestion of bio-waste: 5.7, – installation, maintenance and repair of charging stations for electric vehicles in buildings and of renewable energy tech: 7.4, 7.6. Definition of financial indicators is given in chapter 5.2.6.1 of 2024 URD. (Source: 2024 URD, §5.2.6.1 and 5.2.6.3)

(1) World Energy Outlook 2024, Table 2.3 Wholesale fossil fuel prices by scenario (p. 90).
(2) Refer to the definition by the Energy Information Administration, a federal agency within the U.S. Department of Energy.
(3) Refer to United Nations Framework Classification for Resources to Petroleum, "Supplementary Specifications for the application of the United Nations Framework Classification for Resources to Petroleum" pages 8 and 22, points 9, 102, 103, 104.

SASB code	Metrics	Reported	TotalEnergies' disclosures (2024)
Reserves Valuation & Capital Expenditures			
EM-EP-420a.4	Discussion of how price and demand for hydrocarbons and/or climate regulation influence the capital expenditure strategy for exploration, acquisition, and development of assets	Yes	Refer to **EM-EP-420a.1** related to the resilience of the organization strategy.
Business Ethics & Transparency			
EM-EP-510a.1	Percentage of (1) proved and (2) probable reserves in countries that have the 20 lowest rankings in Transparency International's Corruption Perception Index	Yes	**6.8%** (proved reserves)
EM-EP-510a.2	Description of the management system for prevention of corruption and bribery throughout the value chain	Yes	Information available in point 5.4.2 (The fight against corruption). (Source: 2024 URD, §5.4.2)
Management of the Legal & Regulatory Environment			
EM-EP-530a.1	Discussion of corporate positions related to government regulations and/or policy proposals that address environmental and social factors affecting the industry	Partially	Collective initiative supported by TotalEnergies (Source: 2024 URD, §1.4)
Critical Incident Risk Management			
EM-EP-540a.1	Process Safety Event (PSE) rates for Loss of Primary Containment (LOPC) of greater consequence (Tier 1)	Yes	2024 / 2023 / 2022 Loss of primary containment (Tier 1): 14 / 19 / 11 Million of hours worked – All Personnel: 400 / 400 / 392 Tier 1 Process Safety Event rate per 200,000 hours worked is then equal to **0.007**. (Source: 2024 URD, §5.3.1.2)
EM-EP-540a.2	Description of management systems used to identify and mitigate catastrophic and tail-end risks	Yes	The information is available in point 5.3.1.2-C. (Source: 2024 URD, §5.3.1.2)
Activity Metrics			
EM-EP-000.A	Production of oil	Yes	**1,314 kb/d** (Source: 2024 URD, §2.1)
	Production of natural gas	Yes	**1,120 kboe/d** (Source: 2024 URD, §2.1)
	Production of synthetic oil	Yes	**0 boe/d**
	Production of synthetic gas	Yes	**0 boe/d**
EM-EP-000.B	Number of offshore sites	Yes	**54** (Assets with entitled production in 2024)
EM-EP-000.C	Number of terrestrial sites	Yes	**28** (Assets with entitled production in 2024)