DTE Energy Company

2024 CDP Corporate Questionnaire 2024

Important: this export excludes unanswered questions
This document is an export of your organization's CDP questionnaire response. It contains all data points for questions that are answered or in progress. There may be questions or data points that you have been requested to provide, which are missing from this document because they are currently unanswered. Please note that it is your responsibility to verify that your questionnaire response is complete prior to submission. CDP will not be liable for any failure to do so.
Terms of disclosure for corporate questionnaire 2024 - CDP

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10/15/2024, 03:41 pm

Contents

C1. Introduction

(1.3) Provide an overview and introduction to your organization.

(1.3.2) Organization type

Select from:

☑ Publicly traded organization

(1.3.3) Description of organization

DTE Energy (NYSE:DTE) is a Detroit-based diversified energy Company involved in the development and management of energy-related businesses and services nationwide. Its operating units include an electric Company serving 2.3 million customers in Southeast Michigan and a natural gas Company serving 1.3 million customers in Michigan. The DTE portfolio includes energy businesses focused on custom energy solutions, renewable energy generation and energy marketing and trading. Through our commitment to cleaner energy, DTE Electric plans to reduce CO2 emissions 90% by 2040 to produce cleaner energy while keeping it safe, reliable and affordable. DTE Electric and Gas aspire to achieve net zero carbon emissions by 2050. DTE is committed to serving with its energy through volunteerism, education and employment initiatives, philanthropy and economic progress. Information about DTE is available at dteenergy.com, empoweringmichigan.com, twitter.com/dte_energy and facebook.com/dteenergy.
[Fixed row]

(1.4) State the end date of the year for which you are reporting data. For emissions data, indicate whether you will be providing emissions data for past reporting years.

	End date of reporting year	Alignment of this reporting period with your financial reporting period	Indicate if you are providing emissions data for past reporting years
	12/31/2023	*Select from:* ☑ Yes	*Select from:* ☑ No

[Fixed row]

(1.5) Provide details on your reporting boundary.

(1.5.1) Is your reporting boundary for your CDP disclosure the same as that used in your financial statements?

Select from:

☑ No

(1.5.2) How does your reporting boundary differ to that used in your financial statement?

All Emissions and Water Usage are based on DTE Energy (DTE) ownership percentage. Emissions include stationary sources as reported to EPA's GHG Reporting Program (40 CFR 98) for DTE Electric Company (DTE Electric), DTE Gas Company (DTE Gas), and DTE Vantage. These emissions also include the several peaking unit sources and smaller compressor stations that fall below the reporting threshold of 25,000 metric tons CO2e and are not reported under the EPA GHGRP. DTE Vantage stationary source emissions include those that are reported to EPA's GHG Reporting Program (40 CFR 98) and/or the California GHG Reporting Regulation. DTE Vantage also includes the owned anthropogenic emissions from the sites that fall below the reporting threshold of 25,000 metric tons of anthropogenic CO2e and are not reported under the EPA GHGRP. Mobile emissions are included for owned DTE Electric and DTE Gas vehicle emissions. DTE Energy is reporting on its water facilities that operate under National Pollutant Discharge Elimination System (NPDES) permits and/or local sanitary sewer permits and discharge greater than or equal to one hundred thousand gallons annually. Facilities referenced in 3.1.
[Fixed row]

(1.6) Does your organization have an ISIN code or another unique identifier (e.g., Ticker, CUSIP, etc.)?

ISIN code - bond

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

ISIN code - equity

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ Yes

(1.6.2) Provide your unique identifier

2333311072

CUSIP number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

Ticker symbol

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

SEDOL code

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

LEI number

(1.6.1) Does your organization use this unique identifier?

Select from:
☑ No

D-U-N-S number

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

Other unique identifier

(1.6.1) Does your organization use this unique identifier?

Select from:

☑ No

[Add row]

(1.8) Are you able to provide geolocation data for your facilities?

	Are you able to provide geolocation data for your facilities?	Comment
	Select from: ☑ Yes, for all facilities	*See 7.17.2*

[Fixed row]

(1.16.1) For your electricity generation activities, provide details of your nameplate capacity and electricity generation specifics for each technology employed.

Coal - Hard

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

4100

(1.16.1.4) Net electricity generation (GWh)

15353

Lignite

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

Oil

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ Yes

(1.16.1.2) Nameplate capacity (MW)

256

(1.16.1.3) Gross electricity generation (GWh)

271

(1.16.1.4) Net electricity generation (GWh)

0

Gas

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

3682

(1.16.1.4) Net electricity generation (GWh)

11753

Sustainable biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

Other biomass

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ No

Nuclear

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

1141

(1.16.1.4) Net electricity generation (GWh)

9356

Fossil-fuel plants fitted with carbon capture and storage

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

Geothermal

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ No

Hydropower

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ Yes

(1.16.1.2) Nameplate capacity (MW)

1122

(1.16.1.4) Net electricity generation (GWh)

227

Wind

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ Yes

(1.16.1.2) Nameplate capacity (MW)

1597

(1.16.1.4) Net electricity generation (GWh)

4002

Solar

(1.16.1.1) Own or control operations which use this power generation source

Select from:
☑ Yes

(1.16.1.2) Nameplate capacity (MW)

67

(1.16.1.4) Net electricity generation (GWh)

81

Total

(1.16.1.1) Own or control operations which use this power generation source

Select from:

☑ Yes

(1.16.1.2) Nameplate capacity (MW)

11965

(1.16.1.4) Net electricity generation (GWh)

40771
[Fixed row]

C2. Identification, assessment, and management of dependencies, impacts, risks, and opportunities

(2.1) How does your organization define short-, medium-, and long-term time horizons in relation to the identification, assessment, and management of your environmental dependencies, impacts, risks, and opportunities?

Short-term

(2.1.1) From (years)

0

(2.1.3) To (years)

5

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Aligned with annual planning cycles and shorter-term targets to reach performance goals.

Medium-term

(2.1.1) From (years)

5

(2.1.3) To (years)

15

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Generally aligned with the legislative Integrated Resource Plan (IRP) timeframe and other regulatory submittals and disclosures required by the Michigan Public Service Commission.

Long-term

(2.1.1) From (years)

15

(2.1.2) Is your long-term time horizon open ended?

Select from:
☑ No

(2.1.3) To (years)

30

(2.1.4) How this time horizon is linked to strategic and/or financial planning

Aligned with DTE Energy's goal to achieve net zero carbon emissions by 2050.
[Fixed row]

(2.2) Does your organization have a process for identifying, assessing, and managing environmental dependencies and/or impacts?

	Process in place	Dependencies and/or impacts evaluated in this process
	Select from: ☑ Yes	*Select from:* ☑ Both dependencies and impacts

[Fixed row]

(2.2.1) Does your organization have a process for identifying, assessing, and managing environmental risks and/or opportunities?

	Process in place	Risks and/or opportunities evaluated in this process
	Select from: ☑ Yes	*Select from:* ☑ Both risks and opportunities

[Fixed row]

(2.2.2) Provide details of your organization's process for identifying, assessing, and managing environmental dependencies, impacts, risks, and/or opportunities.

Row 1

(2.2.2.1) Environmental issue

Select all that apply

☑ Climate change

☑ Water

(2.2.2.2) Indicate which of dependencies, impacts, risks, and opportunities are covered by the process for this environmental issue

Select all that apply

☑ Risks

☑ Opportunities

(2.2.2.3) Value chain stages covered

Select all that apply

☑ Direct operations

☑ Upstream value chain

☑ End of life management

(2.2.2.4) Coverage

Select from:

☑ Full

(2.2.2.7) Type of assessment

Select from:

☑ Qualitative and quantitative

(2.2.2.8) Frequency of assessment

Select from:

☑ More than once a year

(2.2.2.9) Time horizons covered

Select all that apply

☑ Short-term

☑ Medium-term

☑ Long-term

(2.2.2.10) Integration of risk management process

Select from:

☑ Integrated into multi-disciplinary organization-wide risk management process

(2.2.2.11) Location-specificity used

Select all that apply

☑ Site-specific
☑ Local
☑ Sub-national
☑ National

(2.2.2.12) Tools and methods used

Other

☑ Desk-based research
☑ External consultants
☑ Internal company methods

(2.2.2.13) Risk types and criteria considered

Acute physical

☑ Tornado
☑ Heat waves
☑ Toxic spills
☑ Cold wave/frost
☑ Pollution incident
☑ Heavy precipitation (rain, hail, snow/ice)
☑ Flood (coastal, fluvial, pluvial, ground water)
☑ Storm (including blizzards, dust, and sandstorms)

Chronic physical

☑ Changing precipitation patterns and types (rain, hail, snow/ice)

Policy

☑ Carbon pricing mechanisms
☑ Changes to national legislation

Reputation

☑ Increased partner and stakeholder concern and partner and stakeholder negative feedback

(2.2.2.14) Partners and stakeholders considered

Select all that apply

☑ NGOs
☑ Customers
☑ Employees
☑ Investors
☑ Regulators
☑ Local communities
☑ Water utilities at a local level

(2.2.2.15) Has this process changed since the previous reporting year?

Select from:

☑ No

(2.2.2.16) Further details of process

Environmental risks are identified through several processes. Risks driven by new environmental rules and regulations are tracked and monitored continuously, for escalation and action. They are reported out through financial filings to the Securities and Exchange Commission (e.g., annual 10-K reports). Top environmental risks are updated annually with identified controls and mitigations. The Board receives, reviews and assesses reports from the board committees and from management relating to enterprise-level risks. Each board committee is responsible for overseeing and considering risk issues relating to their respective committee and reporting their assessments to the full Board at each regularly scheduled board meeting. When granting authority to management, reviewing strategies and receiving management reports, the board and committees consider, among other things, the risks we face. Each board committee reviews management's assessment of risk for that committee's respective area of responsibility. As part of its oversight function, the board addresses any risk conflicts that may arise between the committees and assigns any emerging risks that do not fall within a specific committee's responsibilities to the most relevant committee.
[Add row]

(2.2.7) Are the interconnections between environmental dependencies, impacts, risks and/or opportunities assessed?

(2.2.7.1) Interconnections between environmental dependencies, impacts, risks and/or opportunities assessed

Select from:

☑ Yes

(2.2.7.2) Description of how interconnections are assessed

The St. Lawrence water basin is a low risk for water quality and quantity according to the WRI Water Risk Atlas. DTE Energy water sources are generally withdrawn from the St. Lawrence water basin, therefore, does not warrant further assessment.
[Fixed row]

(2.3) Have you identified priority locations across your value chain?

(2.3.1) Identification of priority locations

Select from:

☑ No, and we do not plan to within the next two years

(2.3.7) Primary reason for not identifying priority locations

Select from:

☑ Not an immediate strategic priority

(2.3.8) Explain why you do not identify priority locations

DTE has assessed their sites using the WRI Aqueduct Tool and all locations fall within the "Low Risk" rating. For this reason, DTE has not further assessed their sites for areas important for biodiversity and ecosystem integrity.
[Fixed row]

(2.4) How does your organization define substantive effects on your organization?

Risks

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

(2.4.6) Metrics considered in definition

Select all that apply

☑ Frequency of effect occurring

☑ Time horizon over which the effect occurs

☑ Likelihood of effect occurring

(2.4.7) Application of definition

DTE identifies issues that are material to its financial or strategic planning in required financial filings to the Securities and Exchange Commission (e.g., annual 10-K reports). SEC provides guidance on reporting material issues in financial statements in SEC Staff Accounting Bulletin No. 99, August 12, 1999. The Bulletin suggests that a mix of quantitative and qualitative information is necessary to evaluate the materiality of an aspect or issue. The definition of materiality extends to any financial and strategic impact that an investor would deem substantive, and DTE aims to maintain a reputation of sound risk assessment and management among its investors. For example, extreme weather conditions are identified as a risk in our 2023 10-K Annual Report, which we would consider a substantive financial or strategic impact if it caused damage to the electric distribution system infrastructure and power generation facilities. Recovering from these setbacks would result in increased costs from unforeseen maintenance to our power generation facilities, therefore negatively impacting the financial performance of the company. A brief explanation of the more significant risks associated with DTE Energy's businesses are provided in our 2023 Form 10-K annual report. Although we have tried to identify and discuss key risk factors, others could emerge in the future. Key risk factors related to climate change include the following: • Environmental laws and liability may be costly. • Weather significantly affects operations. • We may not achieve the carbon emissions goals of our electric and gas utilities. Finally, long-range planning risks associated with the transition of DTE's generating fleet to less carbon-intensive technologies are addressed through the company's Integrated Resource Planning process. These risks include increasing pressure by investors and other stakeholders to conduct climate scenario analyses demonstrating the company's commitment to limiting global warming to less than 2-degrees C above pre-industrial levels.

Opportunities

(2.4.1) Type of definition

Select all that apply

☑ Qualitative

(2.4.6) Metrics considered in definition

Select all that apply

☑ Frequency of effect occurring

☑ Time horizon over which the effect occurs

☑ Likelihood of effect occurring

(2.4.7) Application of definition

As noted in Risks above, DTE Energy uses both quantitative and qualitative information to determine opportunities for the company.
[Add row]

(2.5) Does your organization identify and classify potential water pollutants associated with its activities that could have a detrimental impact on water ecosystems or human health?

(2.5.1) Identification and classification of potential water pollutants

Select from:

☑ Yes, we identify and classify our potential water pollutants

(2.5.2) How potential water pollutants are identified and classified

Water pollutants are identified and classified as part of the application process for the National Pollutant Discharge Elimination System (NPDES) permits and the POTW permits which is part of DTE's established standard. As part of the permitting process the permit authority requires us to assess water quality parameters specific to our industry and local treatment limitations. We must also comply with regulatory requirements related to accidental spills and other incidents related to release of hazardous materials at our facilities. In addition, DTE follows an established standard in conducting environmental impact assessments as part of our NPDES licensing process for plants to identify and classify potential water pollutants associated with business activity that could have a detrimental impact on water ecosystems or human health. For example, a potential detrimental impact considered in DTE's assessments is thermal discharge. DTE categorizes pollutants into two groups based on toxicity level (i.e., toxic pollutants and other pollutants). The assessment of overall impact includes chronic/acute toxicity, persistence, and bioaccumulation. DTE Energy updates thresholds based on changes to permit requirements.
[Fixed row]

(2.5.1) Describe how your organization minimizes the adverse impacts of potential water pollutants on water ecosystems or human health associated with your activities.

Row 1

(2.5.1.1) Water pollutant category

Select from:

☑ Oil

(2.5.1.2) Description of water pollutant and potential impacts

At our DTE facilities, there is a risk of potential release of hydrocarbons into the water in case of an oil spill. The Clean Water Act identifies permissible pollution levels in water for Oil and Grease that must be complied with to protect human health, fish, and wildlife. The EPA Oil Pollution Prevention regulations require facilities to develop and implement plans to prevent oil discharges.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

☑ Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

(2.5.1.5) Please explain

We comply with NPDES permits that establish monitoring requirements and limits for oil and grease. We have also developed and implemented Spill Prevention Control and Countermeasure plans at our facilities. These procedures manage risks utilizing best management practices, routine inspections, containments around large oil storage devices, and the use of oil separation devices for the applicable wastewater streams.Three of our facilities also have developed and implemented a more detailed Facility Response Plan (FRP). These plans are approved by the EPA and require routine drills on a quarterly basis as well as an annual tabletop emergency drill for one of three types of emergency scenarios up to and including a worst-case spill. The FRP will be revised periodically to incorporate updated or more detailed information and improvements based on discrepancies or corrective actions found during the quarterly and annual drills.

Row 3

(2.5.1.1) Water pollutant category

Select from:

☑ Other, please specify **:**Radiation

(2.5.1.2) Description of water pollutant and potential impacts

During normal operations, nuclear power plants release small amounts of radiation that are strictly regulated by the US Nuclear Regulatory Commission (NRC). The regulatory system for radioactive materials is designed to prevent the possibility that anyone could receive an exposure even close to the levels that might inflict short-term damage. Radiation can adversely impact aquatic life, as well as human health, by altering genetics and interfering with reproduction.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Industrial and chemical accidents prevention, preparedness, and response

☑ Water recycling

☑ Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

(2.5.1.5) Please explain

The radioactive material that fuels a nuclear power plant is contained in ceramic fuel pellets that are capable of withstanding thousands of degrees of heat. These fuel pellets are then encased in hollow metal rods that help keep the material from interacting with the water that cools the reactor. In addition, the reactor's thick metal walls and piping, as well as a massive reinforced concrete containment structure, are designed to keep the coolant, fuel, and associated radiation isolated from the environment. Our nuclear power plant, Fermi 2, adheres to stringent regulations of the U.S. Nuclear Regulatory Commission (NRC), in addition to robust internal standards and procedures. DTE ensures that Fermi 2 complies with radiation dose limitations and monitors radiation release; reports can be found by the general public on the NRC website. The procedures identified manage risk by minimizing radiation released to the environment through compliance measures. As stated, the effectiveness of these procedures is evaluated by regular monitoring of discharges.

Row 4

(2.5.1.1) Water pollutant category

Select from:

☑ Other physical pollutants

(2.5.1.2) Description of water pollutant and potential impacts

Coal combustion residuals (CCR) consist of fly ash, bottom ash, boiler slag, and flue gas desulfurization (FGD) solids produced at power plants burning fossil fuel. Potential impacts to surface waters include changes in pH and increased Total Suspended Solids (TSS), which can affect the health of aquatic life that live optimally under certain pH conditions. Additionally, the CCR may contain heavy metals, such as mercury, arsenic, lead, cadmium, chromium, and selenium, which can impact human health if ingested.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

☑ Downstream value chain

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Industrial and chemical accidents prevention, preparedness, and response

☑ Upgrading of process equipment/methods

(2.5.1.5) Please explain

We comply with NPDES permits, develop and implement Storm Water Pollution Prevention Plans (SWPPP), Spill Prevention, Control & Countermeasure (SPCC) Plans, and other incident response plans. These procedures manage risks of impacts by applying treatment methodologies appropriate for controlling TSS and pH. The effectiveness of these procedures is evaluated by regular monitoring of discharges after treatment.DTE has prepared an Emergency Action Plan (EAP) for the Monroe Power Plant Fly Ash Basin (FAB) and the Inactive Bottom Ash Impoundment (BAI). These EAPs were prepared in accordance with the United States Department of Homeland Security Presidential Policy Directive 8, the National Incident Management System, and the United States Environmental Protection Agency final rule for the regulation and management of Coal Combustion Residuals (CCR) under the Resource Conservation and Recovery Act §257.73 (the CCR Rule). The primary goals of these EAPs are to safeguard lives and reduce the potential for damage to public resources and private property by mitigating potential or ongoing failure impacts and completing the actions necessary to efficiently transition from an emergency response to the post-response phase. DTE supplies dry fly ash, bottom ash, and gypsum (a by-product of the FGD process) to market for beneficial reuse. Lastly, DTE has initiated compliance with the new CCR rules by closing unlined CCR units.

Row 5

(2.5.1.1) Water pollutant category

Select from:

☑ Other physical pollutants

(2.5.1.2) Description of water pollutant and potential impacts

Cooling water systems are used to remove waste heat from the process to the environment. Circulating pumps move the cooled water through a piping circuit that includes heat exchangers, reactor jackets, and other critical pieces of process equipment and then back to either the surface water (once-through system) or the cooling tower (closed-cycle system). Cooling water has the potential to degrade ecosystems by increasing the temperature of surface waters in the mixing zone. Health and liveability can be reduced for aquatic species that only thrive under certain temperatures.Since large volumes of air pass through a cooling tower to enable cooling, potential biological impacts must be controlled.Thermal pollution from our cooling water systems is considered to be any deviation from the natural temperature in a habitat and can range from increased temperatures associated with industrial cooling activities to discharges of cold water into streams. This can detrimentally impact aquatic ecosystems by affecting biological activities of organisms and decreasing oxygen supply.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Assessment of critical infrastructure and storage condition (leakages, spillages, pipe erosion etc.) and their resilience

☑ Beyond compliance with regulatory requirements

☑ Industrial and chemical accidents prevention, preparedness, and response

(2.5.1.5) Please explain

The risk of cooling water contamination is mitigated by following operation and maintenance procedure and complying with NPDES permit limits and specifications. These procedures manage risk by limiting contamination. The effectiveness of these procedures is evaluated by regular monitoring of discharges.For example, chlorine is used in cooling water systems to control biological growth, and total residual chlorine is monitored on a regular basis.Thermal effluents are regulated because heat is defined as a pollutant under Clean Water Act (CWA) Section 502(6). DTE has performed thermal plume studies for power plants with identified risk. We comply with NPDES permits that authorize any thermal effluent discharge. This compliance manages risk by monitoring the potential negative impacts thermal pollution can have on aquatic ecosystems and determining if action is needed to minimize the pollution. The effectiveness of these procedures is evaluated by regular monitoring of discharges.

Row 6

(2.5.1.1) Water pollutant category

Select from:

☑ Other, please specify **:**Mercury

(2.5.1.2) Description of water pollutant and potential impacts

Mercury is another relevant water pollutant for DTE. The Clean Water Act identifies acceptable pollution levels in water for mercury that must be complied with to protect human health, fish, and wildlife. Mercury impacts aquatic ecosystems, including fish, by increasing toxicity in organisms. This can have a potential impact for humans consuming these organisms.

(2.5.1.3) Value chain stage

Select all that apply

☑ Direct operations

(2.5.1.4) Actions and procedures to minimize adverse impacts

Select all that apply

☑ Industrial and chemical accidents prevention, preparedness, and response

☑ Discharge treatment using sector-specific processes to ensure compliance with regulatory requirements

(2.5.1.5) Please explain

We comply with NPDES permits that establish monitoring requirements and limits for mercury. We also developed and implement Pollution Minimization Plans (PMPs) for mercury as required by a facility NPDES permit. These procedures manage risks by reviewing the sources on a semi-annual basis and controlling mercury sources as feasible. The effectiveness of these procedures is evaluated by regular monitoring and reporting of discharges.
[Add row]

C3. Disclosure of risks and opportunities

(3.1) Have you identified any environmental risks which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

Climate change

(3.1.1) Environmental risks identified

Select from:

☑ Yes, both in direct operations and upstream/downstream value chain

Water

(3.1.1) Environmental risks identified

Select from:

☑ Yes, only within our direct operations

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

☑ Insufficient data

(3.1.3) Please explain

DTE considers the following a facility: All DTE owned/partially owned sites that hold National Pollutant Discharge Elimination System (NPDES), Publicly Owned Treatment Works (POTW), and/or Great Lakes Water Authority (GLWA) (the 15 sites included in this disclosure: Belle River Power Plant, Blue Water Energy Center, EES Coke, Fermi 2, Greenwood Energy Center, Ludington Pump Station, Monroe Power Plant, Taggart, Dewatering for DTE Electric and DTE Gas, River Rouge Power Plant, Sibley Quarry Landfill, Warren Service Center, St. Clair Power Plant, Trenton Channel Power Plant). A facility exposed to water risk is defined as one that observed a water discharge over 100,000 gallons of water per day (GPD), has a permit to discharge wastewater to surface water or municipality. There are five electric generating stations, one hydroelectric pumping station, one natural gas compressor station, and one coke battery facility that withdraw fresh water within the

St. Lawrence watershed and are exposed to physical water risks. All 8 of these facilities are located in an area that has an overall low water risk rating according to the WRI Aqueduct tool. The water risk related to physical quantity for DTE Energy is lower despite periodic drought conditions, because DTE Energy draws water from the great lakes for nine out of the ten higher risk facilities. The Great Lakes water level has not dropped significantly below the long term annual average for the past 50 years per the US Army Corps of Engineers water level data.

Plastics

(3.1.1) Environmental risks identified

Select from:

☑ No

(3.1.2) Primary reason why your organization does not consider itself to have environmental risks in your direct operations and/or upstream/downstream value chain

Select from:

☑ Not an immediate strategic priority

(3.1.3) Please explain

n/a
[Fixed row]

(3.1.1) Provide details of the environmental risks identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Policy

☑ Changes to regulation of existing products and services

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

Pending or future legislation or other regulatory actions could have a material impact on DTE Electric's operations and financial position and the rates charged to its customers. Impacts include expenditures for environmental equipment beyond what is currently planned, financing costs related to additional capital expenditures, the purchase of emission credits from market sources, higher costs of purchased power, and the retirement of facilities where control equipment is not economical. Uncertainty around future environmental regulations creates difficulty planning long-term capital projects for DTE Gas. DTE Electric & DTE Gas would seek to recover these incremental costs through increased rates charged to its utility customers, as authorized by the MPSC. Increased costs for energy produced from traditional coal-based sources due to recent, pending, and future regulatory initiative; could also increase the economic viability of energy produced from renewable, natural gas fueled generation, nuclear sources, energy waste reduction initiatives, and the potential development of market-based trading of carbon instruments which could provide new business opportunities for DTE Energy's utility and non-utility segments.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Increased capital expenditures

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ More likely than not

(3.1.1.14) Magnitude

Select from:

☑ Medium-high

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

At the present time, it is not possible to quantify the financial impacts of these climate related regulatory initiatives on DTE Energy or its customers.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ No

(3.1.1.26) Primary response to risk

Infrastructure, technology and spending

☑ Increase environment-related capital expenditure

(3.1.1.28) Explanation of cost calculation

At the present time, it is not possible to quantify the financial impacts of these climate related regulatory initiatives on DTE Energy or its customers.

(3.1.1.29) Description of response

We manage these risks through the Board Committee structure described in our response to Question C1.1 and through our established long-term planning processes. We are actively involved in shaping and influencing proposed regulations at both the state and federal level through our involvement with industry groups. We advocate for environmental policy that proceeds in a manner that can be absorbed financially by our customer base.

Water

(3.1.1.1) Risk identifier

Select from:

☑ Risk1

(3.1.1.3) Risk types and primary environmental risk driver

Policy

☑ Changes to regulation of existing products and services

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.7) River basin where the risk occurs

Select all that apply

☑ St. Lawrence

(3.1.1.9) Organization-specific description of risk

Pending or future legislation or other regulatory actions could have a material impact on DTE Electric's operations and financial position and the rates charged to its customers. Impacts include expenditures for environmental equipment beyond what is currently planned, financing costs related to additional capital expenditures, higher costs of purchased power, and the retirement of facilities where control equipment is not economical. DTE Electric would seek to recover these incremental costs through increased rates charged to its utility customers, as authorized by the MPSC. Increased costs for energy produced from traditional coal-based sources that utilize large amounts of water for once through cooling and coal combustion residual transport due to recent, pending, and future regulatory initiatives; could also increase the economic viability of energy produced from renewable, nuclear sources, or other zero to low water usage energy options.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Increased capital expenditures

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

☑ Medium-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Very likely

(3.1.1.14) Magnitude

Select from:

☑ Medium

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

At the present time, it is not possible to quantify the financial impacts of these water related regulatory initiatives on DTE Energy or its customers.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ No

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk2

(3.1.1.3) Risk types and primary environmental risk driver

Policy

☑ Changes to regulation of existing products and services

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

As a result of legislation passed by the state of Michigan in the fourth quarter 2023, DTE Electric will be required to meet a 100% clean energy portfolio standard by 2040. Clean energy sources include renewables, nuclear, and natural gas-fired plants, provided such plants utilize a carbon capture and storage system that is at least 90% effective to offset carbon emissions. The legislation also requires 50% of an electric utility's energy to be generated from renewable sources by 2030 and 60% by 2035. DTE Electric is currently assessing the impacts of this legislation and will include updates in its next Integrated Resource Plan to comply with the new requirements.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Increased capital expenditures

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Likely

(3.1.1.14) Magnitude

Select from:

☑ Medium-high

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

DTE Energy is currently assessing the impacts of this legislation and will include updates in its next Integrated Resource Plan to comply with the new requirements.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ No

(3.1.1.28) Explanation of cost calculation

At the present time, it is not possible to quantify the financial impacts of these climate related regulatory initiatives on DTE Energy or its customers.

(3.1.1.29) Description of response

At the present time, it is not possible to quantify the financial impacts of these climate related regulatory initiatives on DTE Energy or its customers.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk3

(3.1.1.3) Risk types and primary environmental risk driver

Acute physical

☑ Storm (including blizzards, dust and sandstorm)

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

High winds, floods, tornadoes, or ice storms can damage the electric distribution system infrastructure and power generation facilities and require it to perform emergency repairs and incur material unplanned expenses. The expenses of storm restoration efforts may not be fully recoverable through the regulatory process. Prolonged and/or more frequent outages caused by increasingly extreme weather may result in decreased revenues and could also negatively impact DTE Energy's reputation and customer satisfaction or result in increased regulatory oversight.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Decreased revenues due to reduced production capacity

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Likely

(3.1.1.14) Magnitude

Select from:

☑ Medium

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ No

(3.1.1.28) Explanation of cost calculation

At the present time, it is not possible to quantify the financial impacts of these climate related regulatory initiatives on DTE Energy or its customers.

(3.1.1.29) Description of response

DTE Electric's distribution operations focus is on distributing energy in a safe, cost-effective, and reliable manner to customers. An increasing intensity of wind storms and other weather events, coupled with increasing electric vehicle adoption, will drive a continued need for substantial grid investment over the long-term. DTE Electric is hardening and upgrading its infrastructure and has plans to build substations to provide additional capacity as customers shift to more electrification, including electric vehicles. DTE Electric seeks to increase operational efficiencies to maintain rate affordability and increase reliability and customer satisfaction through accelerated tree trimming, pole maintenance, enhanced grid automation to reduce outage duration, and increased underground distribution.

Climate change

(3.1.1.1) Risk identifier

Select from:

☑ Risk4

(3.1.1.3) Risk types and primary environmental risk driver

Chronic physical

☑ Changing temperature (air, freshwater, marine water)

(3.1.1.4) Value chain stage where the risk occurs

Select from:

☑ Direct operations

(3.1.1.6) Country/area where the risk occurs

Select all that apply

☑ United States of America

(3.1.1.9) Organization-specific description of risk

Year to year deviations from normal hot and cold weather conditions affect our earnings and cash flow. Warmer than normal winters reduce the need for natural gas for heating, resulting in lower gas sales to retail customers by DTE Gas. Higher than normal summer temperatures increase electricity demand for residential and commercial air conditioning, and potentially increase peak demand days for DTE Electric, but cooler than normal summer temperatures may decrease forecasted electric revenues.

(3.1.1.11) Primary financial effect of the risk

Select from:

☑ Change in revenue mix and sources

(3.1.1.12) Time horizon over which the risk is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

(3.1.1.13) Likelihood of the risk having an effect within the anticipated time horizon

Select from:

☑ Likely

(3.1.1.14) Magnitude

Select from:

☑ Medium

(3.1.1.16) Anticipated effect of the risk on the financial position, financial performance and cash flows of the organization in the selected future time horizons

We cannot predict whether long-term trends in average temperatures due to climate change will have more of an impact on the demand for electricity or natural gas than year to year variations from normal temperatures. We cannot predict the financial impacts of this risk at this time.

(3.1.1.17) Are you able to quantify the financial effect of the risk?

Select from:

☑ No

(3.1.1.28) Explanation of cost calculation

We cannot predict the financial impacts of this risk at this time.

(3.1.1.29) Description of response

We don't expect physical risks from climate change to impact the company in a way that would impact our normal long-range planning process. Meeting customer demand for our products is part of our normal operational planning. We do not see any change as a result of increased temperatures impacting this process.
[Add row]

(3.2) Within each river basin, how many facilities are exposed to substantive effects of water-related risks, and what percentage of your total number of facilities does this represent?

Row 1

(3.2.1) Country/Area & River basin

United States of America

☑ St. Lawrence

(3.2.2) Value chain stages where facilities at risk have been identified in this river basin

Select all that apply

☑ Direct operations

(3.2.3) Number of facilities within direct operations exposed to water-related risk in this river basin

8

(3.2.4) % of your organization's total facilities within direct operations exposed to water-related risk in this river basin

Select from:

☑ 51-75%

(3.2.8) % organization's annual electricity generation that could be affected by these facilities

Select from:

☑ 76-99%

(3.2.9) % organization's global oil and gas production volume that could be affected by these facilities

Select from:

☑ Less than 1%

(3.2.11) Please explain

All 8 facilities that DTE Energy has identified that may be exposed to substantive water risk discharge water to the surface waters within the St. Lawrence watershed. This represents 53% of the 15 facilities included in this disclosure referenced in 1.3. Given these facilities' reliance on surface water, a significant decrease in the water level within the watershed could put some or all of these facilities at risk of damage or losing production. DTE estimates that the amount of generation or production capacity lost by a significant change in the water level within the watershed could range from 0% to 85% depending on the nature of the event or situation. For example, a significant drop in water level in the Great Lakes could result in the loss of cooling water, and therefore generation or production, at one to six of the facilities. DTE's response would be to increase focus on diversifying its power generation fleet to reduce water reliance, and exploring alternative options for water

supply. The electric generation percentage is calculated by dividing the power generation from the 6 facilities that would be affected by lower water levels in the Great Lakes by the power generation from DTE's entire generation fleet including renewable energy, natural gas, and hydroelectric power. The revenue potentially affected by such disruptions in water availability represents an estimated 49% of our global revenue. Great Lakes water levels have risen and fallen several times on a cyclical basis over several decades according to the data recorded by the US Army Corps of Engineers. In 2020, they were at an all-time high (for periods recorded by US Army Corps of Engineers for 1918-2023), but were at record lows in 1930s (as recorded by US Army Corps of Engineers for 1918-2023). DTE has adjusted to these cyclical fluctuations by incorporating measures, such as dredging of intakes during low water levels to counteract these changes.
[Add row]

(3.3) In the reporting year, was your organization subject to any fines, enforcement orders, and/or other penalties for water-related regulatory violations?

(3.3.1) Water-related regulatory violations

Select from:

☑ Yes

(3.3.2) Fines, enforcement orders, and/or other penalties

Select all that apply

☑ Enforcement orders or other penalties but none that are considered as significant

(3.3.3) Comment

Fermi 2 received violation #Vn-015462 was issued Dec 19, 2023 for items found during a NPDES site inspection. No fines or enforcement orders were issues as a result of this violation notice. Trenton Channel Power Plant Received VN- 013917 was issued on January 12, 2023 for observations and records reviewed during site NPDES inspection.
[Fixed row]

(3.6) Have you identified any environmental opportunities which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future?

	Environmental opportunities identified
Climate change	*Select from:* ☑ Yes, we have identified opportunities, and some/all are being realized
Water	*Select from:* ☑ Yes, we have identified opportunities, and some/all are being realized

[Fixed row]

(3.6.1) Provide details of the environmental opportunities identified which have had a substantive effect on your organization in the reporting year, or are anticipated to have a substantive effect on your organization in the future.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp1

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Resource efficiency

☑ Move to more energy/resource efficient buildings

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

DTE is committed to an electric energy efficiency at a level equivalent to 2 percent of sales annually through 2027. Our efforts already have resulted in 1500 MW (equivalent to the capacity of one large power plant) of reduced energy demand since 2009 when energy efficiency requirements from Michigan Energy legislation went into effect. In DTE's 2022 Integrated Resource Plan we committed to maximizing the achievable potential identified in the Michigan Statewide Potential Study and in July of 2023, agreed to a 2 percent annual reduction in electric energy usage through energy efficiency through 2027. In addition to the primary potential financial impact of reduced direct costs, DTE also receives a maximum financial performance incentive equal to 20% of EWR spend under PA 342. In 2024, PA 229 became effective that increases the maximum performance incentive to 25% of EWR spend. In addition, DTE has committed to maintaining its natural gas annual energy savings goal of 1.05 percent for 2024-2025. Improving energy efficiency also results in lower bills for customers. Improving energy efficiency will reduce our carbon emissions even further – meaning we need to generate less energy and reduce the need for investment in new generation. The expansion of those programs also will mean more jobs and business for the Michigan firms that support them.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Reduced direct costs

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ Yes

(3.6.1.17) Anticipated financial effect figure in the short-term - minimum (currency)

446539928.36

(3.6.1.18) Anticipated financial effect figure in the short-term – maximum (currency)

446539928.36

(3.6.1.23) Explanation of financial effect figures

2023 Lifecycle Dollar Savings: This represents the dollar savings resulting from the current and future energy costs avoided as a result of an energy efficiency action over the effective life of that action. The lifecycle dollar savings are based on verified net savings, which have been adjusted for free riders. Lifecycle dollar savings are presented as the present value of those savings.

(3.6.1.24) Cost to realize opportunity

226259565.69

(3.6.1.25) Explanation of cost calculation

Cost of 2023 DTE Electric and DTE Gas Energy Waste Reduction programs

(3.6.1.26) Strategy to realize opportunity

The DTE Energy Waste Reduction (EWR) programs are funded through surcharges on customer energy bills that are approved by the Michigan Public Service commission. In 2022, DTE Electric raised 176.0 million in surcharge revenue and spent 178.9 million compared to the planned 175.2 million on EWR programs, and DTE Gas raised 57.0 million in surcharge revenue and spent 47.3 million compared to the planned 45.5 million on EWR programs. The total spent on EWR programs in 2023 to realize this opportunity is 226.3 million.

Water

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp1

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Resource efficiency

☑ Reduced water usage and consumption

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.6) River basin where the opportunity occurs

Select all that apply

☑ St. Lawrence

(3.6.1.8) Organization specific description

Surface water usage is expected to decrease as DTE pursues the opportunity of diversifying its generation fleet. The company has closed 3 coal burning facilities since 2021. The company is increasing the percentage of renewable energy sources like wind, solar, and battery storage. These types of renewable energy sources do not require surface water withdrawals.

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Other, please specify :The cost for water for power generation is relatively low; however, diversifying our generation fleet with renewable energy sources will decrease compliance costs associated with ELG and CCR rules but cause initial increase in capital investment.

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium

(3.6.1.14) Anticipated effect of the opportunity on the financial position, financial performance and cash flows of the organization in the selected future time horizons

DTE costs for water for power generation are relatively low; however, diversifying our generation fleet will decrease both capital expenditure and fuel costs in the long term, causing moderate water related financial impact. Implementing the solution, however, will result in a high financial investment associated with the solar and wind energy infrastructure and investments.

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ No

(3.6.1.26) Strategy to realize opportunity

DTE's strategy for reducing water usage/consumption is to retire coal fired power plants that utilize a large volume of water for cooling purposes.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

☑ Use of renewable energy sources

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Increased customer participation in voluntary green power programs. Customers may opt-in to programs to buy all or part of their energy from renewable energy sources. DTE Energy currently offers the following voluntary green power programs to customers: 1) Introduced in 2017, MIGreenPower is a voluntary renewable energy program that provides DTE's residential and business customers with an easy and affordable way to reduce their carbon footprint by increasing the percentage of their energy use attributable to local wind and solar energy sources, up to 100 percent. MIGreenPower is available to business owners, homeowners or renters to help them go green, without installing special equipment or making exterior alterations. At the end of 2023, participating customers, included more than 96,000 residential customers and more than 1,600 business customers in which, may see a slight increase/decrease in their monthly bill while supporting Michigan's clean energy future. DTE Electric's 2019 Integrated Resource Plan committed us to an expansion of our MIGreenPower program to our large business and industrial customers. We're expanding this voluntary initiative to meet the needs of our largest business and industrial customers who are working to meet their own sustainability goals, enabling them to invest in renewable energy.

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

(3.6.1.26) Strategy to realize opportunity

The MIGreenPower program is managed through established marketing and billing programs. Launched in April 2017, the MIGreenPower program provides interested customers with an easy and affordable way to reduce their carbon footprint by increasing the percentage of their energy usage that is attributed to DTE's newest renewable projects. Customers who subscribe to MIGreenPower can elect to increase the amount of renewable energy they use in 5 percent increments, up to 100 percent.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp2

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

☑ Use of renewable energy sources

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

The program is designed to grow and represents a progressive approach to fill market demand. We've already partnered with Ford, Stellantis and GM to provide renewable energy to support their sustainability goals. Ford has committed to procuring 1,300,000 MW hours annually of both wind and solar energy to power all of its SE Michigan facilities, including the plant that makes its popular F-150 truck. GM has partnered with DTE to procure 747,000 MW hours annually of wind and solar energy to power 100 percent of GM's DTE-supplied facilities in southeast Michigan by 2024. MIGreenPower is Green-e Energy certified for businesses and for residential customers who subscribe at or above 25 percent and meets the environmental and consumer protection standards set forth by the non-profit Center for Resource Solutions.

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp4

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Resource efficiency

☑ Increased efficiency of production and/or distribution processes

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Gas Main Renewal Program:

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Medium-term

(3.6.1.26) Strategy to realize opportunity

The DTE Gas Renewal Program focuses on the replacement of leak-prone pipe materials with more robust, modern piping. While the primary goal of the program is to improve system safety, the program is also providing significant reductions in methane emissions from our operations. The program has replaced over 1,700 miles of main since 2011 and planning to replace an additional 200 miles per year through 2035.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp5

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Products and services

☑ Other products and services opportunity, please specify **:**Allowing customers to manage their carbon footprint

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Downstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Natural Gas Balance Program:

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

(3.6.1.26) Strategy to realize opportunity

The CleanVision Natural Gas Balance program is managed through established marketing and billing programs. The program has focused on providing customers with high quality, local options to manage their carbon footprint. To date, 100% of the carbon offsets used are from Michigan-based forestry projects and all but one of the renewable natural gas projects are based in Michigan. DTE Gas residential and small business owners may elect to pay a premium in increments starting at of 4.00 per month to offset 25 to 100 percent or more of their greenhouse gas emissions. DTE will continue to grow this program to support our emission reduction goals and drive growth of carbon management resources and renewable energy sources in Michigan

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp6

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

☑ Other energy source opportunity, please specify **:**Responsible Sourced Gas

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Upstream value chain

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Responsibly Sourced Gas

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Long-term

(3.6.1.26) Strategy to realize opportunity

In June 2020, DTE Gas announced a holistic net zero goal that includes achieving net zero emissions from DTE's natural gas suppliers by 2050. The goal will require DTE to develop and refine a supplier tracking process to track supplier's greenhouse gas emissions.

Climate change

(3.6.1.1) Opportunity identifier

Select from:

☑ Opp7

(3.6.1.3) Opportunity type and primary environmental opportunity driver

Energy source

☑ Other energy source opportunity, please specify **:**Renewable gas recovery

(3.6.1.4) Value chain stage where the opportunity occurs

Select from:

☑ Direct operations

(3.6.1.5) Country/area where the opportunity occurs

Select all that apply

☑ United States of America

(3.6.1.8) Organization specific description

Renewable Gas Recovery — DTE Vantage (DTEV) has ownership interests in, and operates, twenty-seven gas recovery sites in ten different states. The sites recover methane from landfills and dairy farm businesses and convert the gas to generate electricity, replace fossil fuels in industrial and manufacturing operations, or refine to pipeline-quality renewable natural gas, which can then be used as vehicle fuel

(3.6.1.9) Primary financial effect of the opportunity

Select from:

☑ Increased revenues resulting from increased demand for products and services

(3.6.1.10) Time horizon over which the opportunity is anticipated to have a substantive effect on the organization

Select all that apply

☑ Short-term

(3.6.1.11) Likelihood of the opportunity having an effect within the anticipated time horizon

Select from:

☑ Virtually certain (99–100%)

(3.6.1.12) Magnitude

Select from:

☑ Medium

(3.6.1.15) Are you able to quantify the financial effects of the opportunity?

Select from:

☑ No

(3.6.1.26) Strategy to realize opportunity

DTEV will continue leveraging its energy-related operating experience and project management capability to develop and grow its varied business lines, including renewable energy businesses. DTEV anticipates building around its core strengths in the markets where it operates. In determining the markets in which to compete, DTEV examines closely the regulatory and competitive environment, new and pending legislation, the number of competitors, and its ability to achieve sustainable margins. DTEV plans to maximize the effectiveness of its related businesses as it expands. DTEV intends to focus on the following areas for growth: • Providing energy and utility-type services to commercial and industrial customers • Acquiring and developing renewable energy projects and other energy projects. DTEV's capital investments over the 2023-2027 period are estimated at 1.0 billion to 1.5 billion for renewable energy projects and custom energy solutions, while expanding into carbon capture and sequestration. DTEV partners with landfill owners and dairy farmers across the country to produce marketable, renewable transportation fuel by extracting and utilizing landfill and agricultural waste gas. The gas produced by DTEV is sold to off-takers along with its low carbon attributes for use as low carbon transportation fuel. In 2023, DTEV generated more than 311,000 metric tons of California Low Carbon Fuel Standard (LCFS) credits and more than 32 million CNG gallons of renewable fuels recorded under the U.S. Environmental Protection Agency's Renewable Fuel Standard (RFS) program as Renewable Identification Numbers (RINs). DTEV also generated more than 49,000 metric tons of Verified Emission Reduction (VER) credits under Climate Action Reserve's U.S. Landfill Project Protocol.
[Add row]

C4. Governance

(4.1) Does your organization have a board of directors or an equivalent governing body?

(4.1.1) Board of directors or equivalent governing body

Select from:

☑ Yes

(4.1.2) Frequency with which the board or equivalent meets

Select from:

☑ More frequently than quarterly

(4.1.3) Types of directors your board or equivalent is comprised of

Select all that apply

☑ Executive directors or equivalent

☑ Independent non-executive directors or equivalent

(4.1.4) Board diversity and inclusion policy

Select from:

☑ No

[Fixed row]

(4.1.1) Is there board-level oversight of environmental issues within your organization?

	Board-level oversight of this environmental issue
Climate change	*Select from:* ☑ Yes
Water	*Select from:* ☑ Yes
Biodiversity	*Select from:* ☑ Yes

[Fixed row]

(4.1.2) Identify the positions (do not include any names) of the individuals or committees on the board with accountability for environmental issues and provide details of the board's oversight of environmental issues.

Climate change

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ Board-level committee

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ No

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Sporadic – agenda item as important matters arise

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

☑ Overseeing the setting of corporate targets

☑ Overseeing and guiding public policy engagement

☑ Overseeing and guiding the development of a climate transition plan

(4.1.2.7) Please explain

The Board of Directors meets regularly to lead our company, creating and sustaining long-term value for all stakeholders. With respect to sustainability, the Board of Directors: • Bears responsibility for oversight and risk management of plans to create long-term value for shareholders while ensuring our company operates in an environmentally and socially responsible manner • Oversees company management and assesses the effectiveness of management policies and decisions, including management's development and execution of our company's strategies • Reviews all major environmental initiatives In addition, each of the six board committees have detailed charters that define its scope, objectives and responsibilities related to oversight and risk management.

Water

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ Board-level committee

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ No

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Sporadic – agenda item as important matters arise

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

☑ Overseeing and guiding public policy engagement

☑ Overseeing and guiding the development of a climate transition plan

☑ Overseeing and guiding major capital expenditures

(4.1.2.7) Please explain

The Board of Directors meets regularly to lead our company, creating and sustaining long-term value for all stakeholders. With respect to sustainability, the Board of Directors: • Bears responsibility for oversight and risk management of plans to create long-term value for shareholders while ensuring our company operates in an environmentally and socially responsible manner • Oversees company management and assesses the effectiveness of management policies and decisions, including management's development and execution of our company's strategies • Reviews all major environmental initiatives In addition, each of the six board committees have detailed charters that define its scope, objectives and responsibilities related to oversight and risk management.

Biodiversity

(4.1.2.1) Positions of individuals or committees with accountability for this environmental issue

Select all that apply

☑ Other C-Suite Officer

☑ Other, please specify **:**Vice President, Environmental Management & Safety

(4.1.2.2) Positions' accountability for this environmental issue is outlined in policies applicable to the board

Select from:

☑ No

(4.1.2.4) Frequency with which this environmental issue is a scheduled agenda item

Select from:

☑ Sporadic – agenda item as important matters arise

(4.1.2.5) Governance mechanisms into which this environmental issue is integrated

Select all that apply

☑ Reviewing and guiding the assessment process for dependencies, impacts, risks, and opportunities

☑ Overseeing and guiding public policy engagement

☑ Overseeing and guiding the development of a climate transition plan

(4.1.2.7) Please explain

The Board of Directors meets regularly to lead our company, creating and sustaining long-term value for all stakeholders. With respect to sustainability, the Board of Directors: • Bears responsibility for oversight and risk management of plans to create long-term value for shareholders while ensuring our company operates in an environmentally and socially responsible manner • Oversees company management and assesses the effectiveness of management policies and decisions, including management's development and execution of our company's strategies • Reviews all major environmental initiatives In addition, each of the six board committees have detailed charters that define its scope, objectives and responsibilities related to oversight and risk management.
[Fixed row]

(4.3) Is there management-level responsibility for environmental issues within your organization?

	Management-level responsibility for this environmental issue
Climate change	*Select from:* ☑ Yes
Water	*Select from:* ☑ Yes
Biodiversity	*Select from:* ☑ Yes

[Fixed row]

(4.3.1) Provide the highest senior management-level positions or committees with responsibility for environmental issues (do not include the names of individuals).

Climate change

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Chief Executive Officer (CEO)

(4.3.1.2) Environmental responsibilities of this position

Strategy and financial planning

☑ Developing a climate transition plan environmental issues

☑ Implementing a climate transition plan

☑ Managing annual budgets related to environmental issues

☑ Implementing the business strategy related to environmental issues

☑ Developing a business strategy which considers environmental issues

☑ Managing major capital and/or operational expenditures relating to

(4.3.1.4) Reporting line

Select from:

☑ Reports to the board directly

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ As important matters arise

(4.3.1.6) Please explain

Our chairman and CEO, together with other senior leaders of the company, including the vice president of Environmental Management and Safety, provide leadership and oversight of our sustainability initiatives. Through enterprise priority meetings and/or other leadership committees DTE's senior management team: · Gather and respond to input from investors, regulating bodies and other key stakeholders regarding our sustainability strategies, initiatives and priorities · Review internal ESG data and disclosure documents in consultation with relevant business units · Execute our company's sustainability strategies, including governance, engagement and

oversight initiatives, in consultation with the board of directors · Manage our environmental compliance processes and carbon-reduction strategy · Manage the progress of our diversity, equity and inclusion strategies · Mobilize our employees, resources and partner organizations to strengthen and promote prosperity in our communities · Report the outcomes of our sustainability initiatives to the board of directors · Manage risks and opportunities associated with environmental and social initiatives · Receive compensation tied to the achievement of company goals

Water

(4.3.1.1) Position of individual or committee with responsibility

Executive level

☑ Other C-Suite Officer, please specify **:**Vice President - Environmental Management & Safety

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Assessing future trends in environmental dependencies, impacts, risks, and opportunities

☑ Managing environmental dependencies, impacts, risks, and opportunities

Engagement

☑ Managing public policy engagement related to environmental issues

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

☑ Setting corporate environmental policies and/or commitments

Strategy and financial planning

☑ Conducting environmental scenario analysis

(4.3.1.4) Reporting line

Select from:

☑ Reports to the Chief Operating Officer (COO)

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ As important matters arise

(4.3.1.6) Please explain

Our VP of Environmental Management and Safety, together with other senior leaders of the company, including DTE Energy's Chairman and CEO, provide leadership and oversight of our sustainability initiatives through enterprise priority meetings and/or other leadership committees including: • Gather/respond to input from investors, regulating bodies and other key stakeholders regarding our sustainability strategies, initiatives and priorities • Review internal ESG data and disclosure documents in consultation with relevant business units • Execute our company's sustainability strategies, including governance, engagement and oversight initiatives, in consultation with the Board of Directors • Manage environmental compliance processes and carbon-reduction strategy • Report outcomes of our sustainability initiatives to the Board of Directors • Manage risks and opportunities associated with environmental and social initiatives • Receive compensation tied to the achievement of company goals

Biodiversity

(4.3.1.1) Position of individual or committee with responsibility

Other

☑ Other, please specify **:**Vice President - Environmental Management & Safety

(4.3.1.2) Environmental responsibilities of this position

Dependencies, impacts, risks and opportunities

☑ Assessing environmental dependencies, impacts, risks, and opportunities

☑ Assessing future trends in environmental dependencies, impacts, risks, and opportunities

Policies, commitments, and targets

☑ Monitoring compliance with corporate environmental policies and/or commitments

☑ Measuring progress towards environmental corporate targets

☑ Setting corporate environmental policies and/or commitments

☑ Setting corporate environmental targets

Strategy and financial planning

☑ Managing annual budgets related to environmental issues

☑ Managing environmental reporting, audit, and verification processes

(4.3.1.4) Reporting line

Select from:

☑ Reports to the Chief Operating Officer (COO)

(4.3.1.5) Frequency of reporting to the board on environmental issues

Select from:

☑ As important matters arise

(4.3.1.6) Please explain

Our VP of Environmental Management and Safety, together with other senior leaders of the company, including DTE Energy's Chairman and CEO, provide leadership and oversight of our sustainability initiatives through enterprise priority meetings and/or other leadership committees including: • Gather/respond to input from investors, regulating bodies and other key stakeholders regarding our sustainability strategies, initiatives and priorities • Review internal ESG data and disclosure documents in consultation with relevant business units • Execute our company's sustainability strategies, including governance, engagement and oversight initiatives, in consultation with the Board of Directors • Manage environmental compliance processes and carbon-reduction strategy • Report outcomes of our sustainability initiatives to the Board of Directors • Manage risks and opportunities associated with environmental and social initiatives • Receive compensation tied to the achievement of company goals
[Add row]

(4.11) In the reporting year, did your organization engage in activities that could directly or indirectly influence policy, law, or regulation that may (positively or negatively) impact the environment?

(4.11.1) External engagement activities that could directly or indirectly influence policy, law, or regulation that may impact the environment

Select all that apply

☑ Yes, we engaged directly with policy makers

☑ Yes, we engaged indirectly through, and/or provided financial or in-kind support to a trade association or other intermediary organization or individual whose activities could influence policy, law, or regulation

(4.11.2) Indicate whether your organization has a public commitment or position statement to conduct your engagement activities in line with global environmental treaties or policy goals

Select from:

☑ Yes, we have a public commitment or position statement in line with global environmental treaties or policy goals

(4.11.3) Global environmental treaties or policy goals in line with public commitment or position statement

Select all that apply

☑ Paris Agreement

(4.11.8) Describe the process your organization has in place to ensure that your external engagement activities are consistent with your environmental commitments and/or transition plan

DTE Energy has goals of reaching net-zero carbon and greenhouse gas emissions by 2050 while providing clean, reliable, and affordable energy to our customers. DTE Energy carefully reviews trade association policies as they relate to climate change and decarbonization. DTE Energy actively participates in organizations that help advocate for policies that align with our climate change and decarbonization goals. DTE Energy participates in trade associations through sitting on boards and committees, involvement in projects and initiatives that shape policy positions, and advocacy with all levels of government. DTE Energy ensures alignment between trade associations positions, and advocacy and our goals.
[Fixed row]

(4.11.2) Provide details of your indirect engagement on policy, law, or regulation that may (positively or negatively) impact the environment through trade associations or other intermediary organizations or individuals in the reporting year.

Row 1

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

North America

☑ Edison Electric Institute (EII)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

Row 2

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

North America

☑ American Gas Association

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:
☑ Consistent

Row 3

(4.11.2.1) Type of indirect engagement

Select from:
☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

North America
☑ Other trade association in North America, please specify **:**Nuclear Energy Institute (NEI)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply
☑ Climate change

(4.11.2.6) Indicate whether your organization’s position is consistent with the organization or individual you engage with

Select from:
☑ Consistent

Row 4

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via other intermediary organization or individual

(4.11.2.2) Type of organization or individual

Select from:

☑ Research organization

(4.11.2.3) State the organization or position of individual

Electric Power Research Institute (EPRI)

(4.11.2.5) Environmental issues relevant to the policies, laws, or regulations on which the organization or individual has taken a position

Select all that apply

☑ Climate change

☑ Water

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

Row 5

(4.11.2.1) Type of indirect engagement

Select from:

☑ Indirect engagement via a trade association

(4.11.2.4) Trade association

North America

☑ Other trade association in North America, please specify :Michigan Chamber of Commerce

(4.11.2.6) Indicate whether your organization's position is consistent with the organization or individual you engage with

Select from:

☑ Consistent

[Add row]

(4.12.1) Provide details on the information published about your organization's response to environmental issues for this reporting year in places other than your CDP response. Please attach the publication.

Row 1

(4.12.1.1) Publication

Select from:

☑ In voluntary communications

(4.12.1.3) Environmental issues covered in publication

Select all that apply

☑ Climate change

☑ Water

☑ Biodiversity

(4.12.1.4) Status of the publication

Select from:

☑ Complete

(4.12.1.5) Content elements

Select all that apply

☑ Governance

☑ Risks & Opportunities

☑ Strategy

☑ Emissions figures

☑ Emission targets

(4.12.1.7) Attach the relevant publication

IRP_One_pager_2023.pdf

Row 2

(4.12.1.1) Publication

Select from:

☑ In voluntary sustainability reports

(4.12.1.3) Environmental issues covered in publication

Select all that apply

☑ Climate change

☑ Water

☑ Biodiversity

(4.12.1.4) Status of the publication

Select from:

☑ Complete

(4.12.1.5) Content elements

Select all that apply

☑ Governance

☑ Risks & Opportunities
☑ Strategy
☑ Emissions figures
☑ Emission targets

(4.12.1.7) Attach the relevant publication

2023SustainabilityReport.pdf

Row 3

(4.12.1.1) Publication

Select from:
☑ In mainstream reports, in line with environmental disclosure standards or frameworks

(4.12.1.2) Standard or framework the report is in line with

Select all that apply
☑ GRI
☑ TCFD
☑ Other, please specify

(4.12.1.3) Environmental issues covered in publication

Select all that apply
☑ Climate change
☑ Water
☑ Biodiversity

(4.12.1.4) Status of the publication

Select from:
☑ Complete

(4.12.1.5) Content elements

Select all that apply

☑ Governance

☑ Risks & Opportunities

☑ Strategy

☑ Emissions figures

☑ Emission targets

(4.12.1.7) Attach the relevant publication

DTEEnergyEfficiencyAnnualReport2023-1.pdf
[Add row]

C5. Business strategy

(5.1) Does your organization use scenario analysis to identify environmental outcomes?

Climate change

(5.1.1) Use of scenario analysis

Select from:
☑ Yes

(5.1.2) Frequency of analysis

Select from:
☑ Not defined

Water

(5.1.1) Use of scenario analysis

Select from:
☑ Yes

(5.1.2) Frequency of analysis

Select from:
☑ Not defined
[Fixed row]

(5.1.1) Provide details of the scenarios used in your organization’s scenario analysis.

Climate change

(5.1.1.1) Scenario used

Climate transition scenarios

☑ Customized publicly available climate transition scenario, please specify :via the Integrated Resource Plan

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Business division

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Technology

(5.1.1.6) Temperature alignment of scenario

Select from:

☑ Unknown

(5.1.1.7) Reference year

2023

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025
☑ 2030
☑ 2040

(5.1.1.9) Driving forces in scenario

Stakeholder and customer demands

☑ Consumer sentiment

Regulators, legal and policy regimes

☑ Other regulators, legal and policy regimes driving forces, please specify **:**Inflation Reduction Act

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19

(5.1.1.11) Rationale for choice of scenario

Based on MI Integrated Resource Planning parameters

Water

(5.1.1.1) Scenario used

Water scenarios

☑ Customized publicly available water scenario, please specify **:**via the Integrated Resource Plan

(5.1.1.3) Approach to scenario

Select from:

☑ Qualitative and quantitative

(5.1.1.4) Scenario coverage

Select from:

☑ Business division

(5.1.1.5) Risk types considered in scenario

Select all that apply

☑ Policy

☑ Market

☑ Technology

(5.1.1.7) Reference year

2023

(5.1.1.8) Timeframes covered

Select all that apply

☑ 2025

☑ 2030

☑ 2040

(5.1.1.9) Driving forces in scenario

Stakeholder and customer demands

☑ Consumer sentiment

Regulators, legal and policy regimes

☑ Other regulators, legal and policy regimes driving forces, please specify **:**IRA

(5.1.1.10) Assumptions, uncertainties and constraints in scenario

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19

(5.1.1.11) Rationale for choice of scenario

Based on MI Integrated Resource Planning parameters
[Add row]

(5.1.2) Provide details of the outcomes of your organization's scenario analysis.

Climate change

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

☑ Risk and opportunities identification, assessment and management

☑ Strategy and financial planning

☑ Capacity building

☑ Target setting and transition planning

(5.1.2.2) Coverage of analysis

Select from:

☑ Business division

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19

Water

(5.1.2.1) Business processes influenced by your analysis of the reported scenarios

Select all that apply

☑ Risk and opportunities identification, assessment and management

☑ Strategy and financial planning

☑ Target setting and transition planning

(5.1.2.2) Coverage of analysis

Select from:

☑ Business division

(5.1.2.3) Summarize the outcomes of the scenario analysis and any implications for other environmental issues

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19
[Fixed row]

(5.2) Does your organization's strategy include a climate transition plan?

(5.2.1) Transition plan

Select from:

☑ Yes, we have a climate transition plan which aligns with a 1.5°C world

(5.2.3) Publicly available climate transition plan

Select from:

☑ Yes

(5.2.4) Plan explicitly commits to cease all spending on, and revenue generation from, activities that contribute to fossil fuel expansion

Select from:

☑ No, and we do not plan to add an explicit commitment within the next two years

(5.2.6) Explain why your organization does not explicitly commit to cease all spending on and revenue generation from activities that contribute to fossil fuel expansion

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19

(5.2.7) Mechanism by which feedback is collected from shareholders on your climate transition plan

Select from:

☑ We have a different feedback mechanism in place

(5.2.8) Description of feedback mechanism

IRP Process and executive level and board meetings including shareholder meetings.

(5.2.9) Frequency of feedback collection

Select from:

☑ Less frequently than annually

(5.2.10) Description of key assumptions and dependencies on which the transition plan relies

See assumptions listed in 5.1.1

(5.2.11) Description of progress against transition plan disclosed in current or previous reporting period

See 2023 Sustainability Report

(5.2.12) Attach any relevant documents which detail your climate transition plan (optional)

DTEEnergyEfficiencyAnnualReport2023.pdf,IRP_One_pager_2023.pdf,2023SustainabilityReport.pdf

(5.2.13) Other environmental issues that your climate transition plan considers

Select all that apply

☑ Water

(5.2.14) Explain how the other environmental issues are considered in your climate transition plan

See description of scenario modeling included in the 2022 Integrated Resource Plan (IRP) at https://dtecleanenergy.com/downloads/IRP_Executive_Summary.pdf#page19
[Fixed row]

(5.3) Have environmental risks and opportunities affected your strategy and/or financial planning?

(5.3.1) Environmental risks and/or opportunities have affected your strategy and/or financial planning

Select from:

☑ Yes, both strategy and financial planning

(5.3.2) Business areas where environmental risks and/or opportunities have affected your strategy

Select all that apply

☑ Products and services

☑ Upstream/downstream value chain

☑ Investment in R&D

☑ Operations

[Fixed row]

(5.3.1) Describe where and how environmental risks and opportunities have affected your strategy.

Products and services

(5.3.1.1) Effect type

Select all that apply

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

☑ Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

DTE Energy's products and services are focused on providing customers with cleaner sources of energy while maintaining customer affordability and reliability. Products and services related to the clean energy transition include: 1. Energy waste reduction services provided by DTE Electric and DTE Gas to customers in accordance with Michigan legislation. 2. Voluntary renewable energy programs for both DTE Electric and DTE Gas that customers may subscribe to in helping to meet customer's own renewable energy goals. 3. Business ventures by DTE Vantage including a. Developing and operating projects that convert landfill gas and dairy cow manure into electric power or clean, sustainable renewable natural gas (RNG). b. Developing multiple carbon capture projects across the U.S. that will help our customers in their decarbonization journey to reduce their emissions and meet evolving environmental commitments

Upstream/downstream value chain

(5.3.1.1) Effect type

Select all that apply

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

☑ Water

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

DTE is part of the Electric Utility Industry Sustainable Supply Chain Alliance (EUISSCA), an organization of utilities and suppliers collaborating to advance sustainability best practices in supply chain activities and supplier networks. The Company uses The Sustainability Project (TSP) supplier survey tool, which was launched in 2018, to assess suppliers' environmental impacts. DTE's natural gas utility net zero goal that includes reducing emissions from DTE Gas suppliers to net zero by 2050. DTE is a member of the ONE Future coalition, a group of more than 40 Natural Gas companies working together to voluntarily reduce methane emissions across the Natural Gas value chain to 1% (or less) by 2025. DTE Gas executed its first purchases of certified, responsibly sourced gas during the summers of 2022 and 2023. In 2023, we purchased 2 Bcf of Trustwell Platinum certified gas, which was certified by a third-party to have a Methane Intensity of less than 0.10%

Investment in R&D

(5.3.1.1) Effect type

Select all that apply

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

We fund and participate in R&D programs and projects managed by the Electric Power Research Institute (EPRI), which helps to identify cost-effective strategies and evaluate alternatives for meeting future generation requirements, including environmental and climate related requirements. EPRI R&D projects address short-term issues such as strategies for setting climate goals, as well as long term issues such as identifying technologies to achieve net zero targets. DTE Energy is a member of the Low Carbon Research Initiative jointly managed by EPRI and the Gas Technology Institute (GTI) to identify and accelerate development and demonstration of low- and zero carbon energy technologies.

Operations

(5.3.1.1) Effect type

Select all that apply

☑ Opportunities

(5.3.1.2) Environmental issues relevant to the risks and/or opportunities that have affected your strategy in this area

Select all that apply

☑ Climate change

(5.3.1.3) Describe how environmental risks and/or opportunities have affected your strategy in this area

DTE Energy's utilities are investing capital to support a modern, reliable grid and cleaner, affordable energy through investments in base infrastructure and new generation. Increasing intensity of wind storms and other weather events, coupled with increasing electric vehicle adoption, will drive a continued need for substantial grid investment over the long-term. DTE Electric has committed to a carbon reduction goal that will achieve a 32 percent reduction in CO2 emissions from 2005 levels by 2023, a 65 percent reduction in 2028, an 85 percent reduction in 2032, 90% by 2040 and net zero by 2050. Details of this transition are provided in the July 23, 2023 IRP Settlement Order. For the gas utility, DTE Energy aims to cut carbon emissions across the entire value chain. DTE Gas is committed to a goal of net zero emissions by 2050 from internal gas operations and gas suppliers. To achieve net zero, DTE Energy is working to source gas with lower methane intensity, reduce emissions through its gas main renewal and pipeline integrity programs, and if necessary, use carbon offsets to address any remaining emissions. DTE Energy also aims to help DTE Gas customers reduce their emissions by 35% by 2040 by increasing energy efficiency, pursuing advanced technologies such as hydrogen and carbon capture and sequestration, and through the CleanVision Natural Gas Balance program which provides customers the option to use carbon offsets and renewable natural gas.
[Add row]

(5.3.2) Describe where and how environmental risks and opportunities have affected your financial planning.

Row 1

(5.3.2.1) Financial planning elements that have been affected

Select all that apply

- ☑ Assets
- ☑ Revenues
- ☑ Liabilities
- ☑ Direct costs
- ☑ Indirect costs
- ☑ Access to capital
- ☑ Capital allocation
- ☑ Capital expenditures
- ☑ Acquisitions and divestments

(5.3.2.2) Effect type

Select all that apply

- ☑ Risks
- ☑ Opportunities

(5.3.2.3) Environmental issues relevant to the risks and/or opportunities that have affected these financial planning elements

Select all that apply

☑ Climate change

☑ Water

(5.3.2.4) Describe how environmental risks and/or opportunities have affected these financial planning elements

Please see DTE Energy's 2023 10-K for information on financial planning strategies
[Add row]

(5.5) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

(5.5.1) Investment in low-carbon R&D

Select from:

☑ Yes

(5.5.2) Comment

DTE Electric received approval for its first electric vehicle (EV) pilot, Charging Forward, in May 2019. The Charging Forward program has since grown with two additional approved filings, Charging Forward eFleets and the Charging Forward Expansion in 2021 and 2022 respectively. Key components of Charging Forward include education & outreach, EV driver incentives, site host rebates, and fleet advisory services. Additionally, the Company launched an Emerging Technology Fund in 2023 that was approved as part of the Charging Forward Expansion. The Emerging Technology Fund supports EV research & development pilots such as new and novel technologies that enable efficient EV-grid integration. The Company has developed a Transportation Electrification Plan (TEP) that details its proposed EV strategy and investment through 2028. TEP program execution will begin in 2025, pending approval by our Michigan Public Service Commission (MPSC).
[Fixed row]

(5.10) Does your organization use an internal price on environmental externalities?

	Use of internal pricing of environmental externalities	Environmental externality priced
	Select from: ☑ Yes	*Select all that apply* ☑ Carbon

[Fixed row]

(5.10.1) Provide details of your organization’s internal price on carbon.

Row 1

(5.10.1.1) Type of pricing scheme

Select from:

☑ Shadow price

(5.10.1.2) Objectives for implementing internal price

Select all that apply

☑ Drive energy efficiency

☑ Drive low-carbon investment

☑ Identify and seize low-carbon opportunities

☑ Navigate regulations

☑ Other, please specify **:**Change internal behavior, stakeholder expectations

(5.10.1.3) Factors considered when determining the price

Select all that apply

☑ Scenario analysis

(5.10.1.4) Calculation methodology and assumptions made in determining the price

The price level was set to represent a risk weighted average, between zero prices and moderate prices. The level was enough to change the dispatch, although not high enough to increase customer rates excessively.

(5.10.1.5) Scopes covered

Select all that apply

☑ Scope 1

☑ Scope 3, other (downstream)

(5.10.1.6) Pricing approach used – spatial variance

Select from:

☑ Uniform

(5.10.1.8) Pricing approach used – temporal variance

Select from:

☑ Evolutionary

(5.10.1.9) Indicate how you expect the price to change over time

It is expected that the carbon price will increase over time. The Company's carbon price starts in 2027, prior to 2027, 0/Metric ton is used.

(5.10.1.10) Minimum actual price used (currency per metric ton CO2e)

7.03

(5.10.1.11) Maximum actual price used (currency per metric ton CO2e)

22.32

(5.10.1.12) Business decision-making processes the internal price is applied to

Select all that apply
☑ Capital expenditure

(5.10.1.13) Internal price is mandatory within business decision-making processes

Select from:
☑ Yes, for some decision-making processes, please specify **:**Integrated resource planning and capital projects in the Generation business.

(5.10.1.14) % total emissions in the reporting year in selected scopes this internal price covers

0

(5.10.1.15) Pricing approach is monitored and evaluated to achieve objectives

Select from:
☑ Yes

(5.10.1.16) Details of how the pricing approach is monitored and evaluated to achieve your objectives

Regional modeling deriving the company's energy and commodity prices is conducted by third party on an annual basis. Carbon price assumptions are reviewed and assessed based on current environmental policies, federal administrations and regulations.
[Add row]

(5.11) Do you engage with your value chain on environmental issues?

	Engaging with this stakeholder on environmental issues	Environmental issues covered
Suppliers	*Select from:* ☑ Yes	*Select all that apply* ☑ Climate change ☑ Water

[Fixed row]

(5.11.1) Does your organization assess and classify suppliers according to their dependencies and/or impacts on the environment?

Climate change

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Other, please specify :TSP assessment

Water

(5.11.1.1) Assessment of supplier dependencies and/or impacts on the environment

Select from:

☑ Yes, we assess the dependencies and/or impacts of our suppliers

(5.11.1.2) Criteria for assessing supplier dependencies and/or impacts on the environment

Select all that apply

☑ Other, please specify :TSP Assessment

[Fixed row]

(5.11.2) Does your organization prioritize which suppliers to engage with on environmental issues?

	Supplier engagement prioritization on this environmental issue
Climate change	*Select from:* ☑ No, we do not prioritize which suppliers to engage with on this environmental issue
Water	*Select from:* ☑ No, we do not prioritize which suppliers to engage with on this environmental issue

[Fixed row]

(5.11.5) Do your suppliers have to meet environmental requirements as part of your organization's purchasing process?

	Suppliers have to meet specific environmental requirements related to this environmental issue as part of the purchasing process	Policy in place for addressing supplier non-compliance	Comment
Climate change	*Select from:* ☑ No, and we do not plan to introduce environmental requirements related to this environmental issue within the next two years	*Select from:* ☑ No, we do not have a policy in place for addressing non-compliance	*n/a*
Water	*Select from:* ☑ No, and we do not plan to introduce environmental requirements related to this environmental issue within the next two years	*Select from:* ☑ No, we do not have a policy in place for addressing non-compliance	*n/a*

[Fixed row]

(5.11.7) Provide further details of your organization's supplier engagement on environmental issues.

Climate change

(5.11.7.2) Action driven by supplier engagement

Select from:

☑ Other, please specify :Annual TSP 2.0 ESG Assessment

(5.11.7.3) Type and details of engagement

Information collection

☑ Other information collection activity, please specify :The Sustainable Supply Chain Alliance (SSCA) administers an annual ESG assessment on behalf of DTE.

(5.11.7.4) Upstream value chain coverage

Select all that apply

☑ Tier 1 suppliers

(5.11.7.5) % of tier 1 suppliers by procurement spend covered by engagement

Select from:

☑ 51-75%

(5.11.7.9) Describe the engagement and explain the effect of your engagement on the selected environmental action

Rationale for the coverage of your engagement DTE is a member of the SSCA. Our top suppliers completed an annual ESG assessment called The Sustainability Project (TSP 2.0). The suppliers report out climate related information in the annual assessment. Impact of engagement, including measures of success Continuing to engage with suppliers so they know how important this topic is to DTE. Providing suppliers the resources through SSCA to measure and improve their GHG emissions.

Water

(5.11.7.2) Action driven by supplier engagement

Select from:

☑ No other supplier engagement

[Add row]

(5.13) Has your organization already implemented any mutually beneficial environmental initiatives due to CDP Supply Chain member engagement?

	Environmental initiatives implemented due to CDP Supply Chain member engagement	Primary reason for not implementing environmental initiatives	Explain why your organization has not implemented any environmental initiatives
	Select from: ☑ No, and we do not plan to within the next two years	*Select from:* ☑ Not an immediate strategic priority	*n/a*

[Fixed row]

C6. Environmental Performance - Consolidation Approach

(6.1) Provide details on your chosen consolidation approach for the calculation of environmental performance data.

	Consolidation approach used
Climate change	*Select from:* ☑ Equity share
Water	*Select from:* ☑ Equity share

[Fixed row]

C7. Environmental performance - Climate Change

(7.1.1) Has your organization undergone any structural changes in the reporting year, or are any previous structural changes being accounted for in this disclosure of emissions data?

	Has there been a structural change?
	Select all that apply ☑ No

[Fixed row]

(7.1.2) Has your emissions accounting methodology, boundary, and/or reporting year definition changed in the reporting year?

	Change(s) in methodology, boundary, and/or reporting year definition?
	Select all that apply ☑ No

[Fixed row]

(7.3) Describe your organization’s approach to reporting Scope 2 emissions.

(7.3.1) Scope 2, location-based

Select from:

☑ We are reporting a Scope 2, location-based figure

(7.3.2) Scope 2, market-based

Select from:

☑ We have operations where we are able to access electricity supplier emission factors or residual emissions factors, but are unable to report a Scope 2, market-based figure

(7.3.3) Comment

DTE Electric reports Scope 2 emissions associated with transmission and distribution line losses for wholesale power purchased from other parties and transmitted or distributed across the company's system. Scope 2 emissions from any power purchased by DTE Electric for buildings such as headquarters, service centers and warehouses are considered to be insignificant because the majority of this power is within the DTE Electric service territory and emissions are accounted for from DTE Electric's Scope 1 direct emissions. Power purchases by DTE Gas and P&I facilities outside of DTE Electric's service territory are currently not counted or included in the Scope 2 emissions calculation because these emissions are considered to be small compared to DTE Electric's overall Scope 2 emissions.
[Fixed row]

(7.4.1) Provide details of the sources of Scope 1, Scope 2, or Scope 3 emissions that are within your selected reporting boundary which are not included in your disclosure.

Row 1

(7.4.1.1) Source of excluded emissions

Power purchases by DTE Gas and P&I facilities outside of DTE Electric's service territory are currently not counted or included in the Scope 2 emissions calculation

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

☑ Scope 2 (location-based)

(7.4.1.4) Relevance of location-based Scope 2 emissions from this source

Select from:

☑ Emissions are relevant but not yet calculated

(7.4.1.10) Explain why this source is excluded

These emissions are considered to be small compared to DTE Energy's overall Scope 2 emissions.

Row 2

(7.4.1.1) Source of excluded emissions

Emissions from Emergency Generators that are not required to be reported under the GHG Reporting Rule.

(7.4.1.2) Scope(s) or Scope 3 category(ies)

Select all that apply

☑ Scope 1

(7.4.1.3) Relevance of Scope 1 emissions from this source

Select from:

☑ Emissions are relevant and calculated, but not disclosed

(7.4.1.10) Explain why this source is excluded

These emissions are very small compared to DTE Electric's overall Scope 1 emissions.
[Add row]

(7.6) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

(7.6.1) Gross global Scope 1 emissions (metric tons CO2e)

22630000

(7.6.3) Methodological details

Direct emissions for DTE Electric stationary sources as reported to EPA's GHG Reporting Program (40 CFR 98) for 2023. These emissions also include the following peaking unit sources that fall below the reporting threshold of 25,000 metric tons CO2e and are not reported under the EPA GHGRP: Colfax, Fermi, Hancock, Northeast, Oliver, Putnam, Superior, and Wilmot. Direct emissions for DTE Gas stationary sources as reported to EPA's GHG Reporting Program (40 CFR 98) under Subpart C (combustion emissions) and Subpart W (fugitive emissions). This value also includes sources that are not reported to the EPA GHGRP but that are reported to the ONE Future Coalition to demonstrate DTE's commitment to achieving the collective ONE Future goal of reducing methane intensity to less than 1 percent by 2025 across the natural gas value chain. The ONE Future reporting includes emissions from stationary sources that fall below the reporting threshold of 25,000 metric tons CO2e for the EPA GHGRP. Direct emissions for DTE Vantage stationary sources as reported to EPA's GHG Reporting Program (40 CFR 98) and/or the California GHG Reporting Regulation. DTE Vantage also includes the owned anthropogenic emissions from the sites that fall below the reporting threshold of 25,000 metric tons of anthropogenic CO2e and are not reported under the EPA GHGRP.
[Fixed row]

(7.7) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

(7.7.1) Gross global Scope 2, location-based emissions (metric tons CO2e)

115000

(7.7.4) Methodological details

Estimate of DTE Electric emissions associated with transmission and distribution (T&D) line losses for wholesale power purchased from other parties and transmitted or distributed across the company's system. T&D line loss emissions are calculated as follows: [Purchased Power][Annual Average Line Loss on DTE system]*[eGRID Emission Factor for Subregion RFC].*
[Fixed row]

(7.8) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

286000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

☑ Distance-based method

(7.8.5) Please explain

DTE Energy purchases significant amounts of goods and services to maintain business unit operations, especially for the utility operations: DTE Electric Company and DTE Gas Company. The emissions reported are the emissions related to the production of the gas purchased by DTE Gas in 2023. Emissions are calculated using the distance from Basins and the portion of the emissions publically reported by each basin that are assigned to the gas purchased by DTE from that basin. In 2023, DTE spent 2.7 billion with Michigan businesses. Purchasing goods and services locally reduces upstream CO2e emissions by reducing the length of transportation (e.g. goods travel significantly less miles than if purchased overseas) and minimizing or eliminating business travel associated with purchased services (e.g. reduced flying and driving for the companies providing services to DTE). Emissions from these purchases have not been calculated.

Capital goods

(7.8.1) Evaluation status

Select from:

☑ Relevant, not yet calculated

Fuel-and-energy-related activities (not included in Scope 1 or 2)

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

4279000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

☑ Fuel-based method

Upstream transportation and distribution

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

234000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average product method

☑ Distance-based method

(7.8.5) Please explain

Emissions are calculated for upstream transportation of gas from basins to gate stations

Waste generated in operations

(7.8.1) Evaluation status

Select from:

☑ Relevant, not yet calculated

Business travel

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

2600

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Distance-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Emissions related to business travel are currently only calculated for employee-owned vehicles (for which mileage was reimbursed). Air, rental vehicles, bus, motorcycle, and rail business travel are not accounted for. Note that emissions from company-owned vehicles are included in Scope 1.

Employee commuting

(7.8.1) Evaluation status

Select from:

☑ Relevant, not yet calculated

Upstream leased assets

(7.8.1) Evaluation status

Select from:
☑ Relevant, not yet calculated

Downstream transportation and distribution

(7.8.1) Evaluation status

Select from:
☑ Not relevant, explanation provided

(7.8.5) Please explain

DTE Gas Company's downstream emissions from natural gas deliveries are reported separately under "Use of Sold Products" Scope 3 emissions.

Processing of sold products

(7.8.1) Evaluation status

Select from:
☑ Relevant, not yet calculated

(7.8.5) Please explain

The majority of the products sold by DTE Energy are electricity and natural gas. DTE Vantage also sells electricity, hot water, plant air, chilled air, chilled water. Generally, products from DTE Energy are used to provide energy to customers and are generally not processed or reprocessed into other materials. DTE Electric and/or DTE Vantage also sells fly ash, bottom ash, and synthetic gypsum that is used to produce other products but the emissions from the resulting products are not known. DTE Vantage's EES Coke Battery facility sells biproducts but the emissions from any produced final product is not calculated.

Use of sold products

(7.8.1) Evaluation status

Select from:

☑ Relevant, calculated

(7.8.2) Emissions in reporting year (metric tons CO2e)

7785000

(7.8.3) Emissions calculation methodology

Select all that apply

☑ Average data method

☑ Fuel-based method

(7.8.4) Percentage of emissions calculated using data obtained from suppliers or value chain partners

0

(7.8.5) Please explain

Emissions reported represent what would result from the combustion of complete oxidation of natural gas delivered by local distribution companies (LDCs) owned by DTE Energy's DTE Gas Company. Downstream emissions for DTE Gas were calculated using the gas sold to customers (excluding EUT customers) multiplied by emission factors found in the GHG Emission Factors Hub.

End of life treatment of sold products

(7.8.1) Evaluation status

Select from:

☑ Not relevant, explanation provided

(7.8.5) Please explain

The largest amount of products sold by DTE Energy are electricity and natural gas. Once consumed, there is no end of life of these sold energy products.

Downstream leased assets

(7.8.1) Evaluation status

Select from:
☑ Not evaluated

Franchises

(7.8.1) Evaluation status

Select from:
☑ Not evaluated

Investments

(7.8.1) Evaluation status

Select from:
☑ Not evaluated

Other (upstream)

(7.8.1) Evaluation status

Select from:
☑ Not evaluated

Other (downstream)

(7.8.1) Evaluation status

Select from:
☑ Not evaluated

[Fixed row]

(7.9) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	*Select from:* ☑ No third-party verification or assurance
Scope 2 (location-based or market-based)	*Select from:* ☑ No third-party verification or assurance
Scope 3	*Select from:* ☑ No third-party verification or assurance

[Fixed row]

(7.10.1) Identify the reasons for any change in your gross global emissions (Scope 1 and 2 combined), and for each of them specify how your emissions compare to the previous year.

	Change in emissions (metric tons CO2e)	Direction of change in emissions
Change in output	*2148000*	*Select from:* ☑ Increased
Change in physical operating conditions	*6638000*	*Select from:* ☑ Decreased

	Change in emissions (metric tons CO2e)	Direction of change in emissions
Unidentified	*43000*	*Select from:* ☑ Decreased

[Fixed row]

(7.12.1) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment
	983000	*DTE Vantage facilities are the sole producer of biogenic CO2 emissions for DTE Energy.*

[Fixed row]

(7.15.1) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used global warming potential (GWP).

Row 1

(7.15.1.1) Greenhouse gas

Select from:

☑ CO2

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

21943000

(7.15.1.3) GWP Reference

Select from:

☑ IPCC Fourth Assessment Report (AR4 - 100 year)

Row 2

(7.15.1.1) Greenhouse gas

Select from:

☑ CH4

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

550000

(7.15.1.3) GWP Reference

Select from:

☑ IPCC Fourth Assessment Report (AR4 - 100 year)

Row 3

(7.15.1.1) Greenhouse gas

Select from:

☑ N2O

(7.15.1.2) Scope 1 emissions (metric tons of CO2e)

93000

(7.15.1.3) GWP Reference

Select from:
☑ IPCC Fourth Assessment Report (AR4 - 100 year)
[Add row]

(7.15.3) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.

Combustion (Electric utilities)

(7.15.3.1) Gross Scope 1 CO2 emissions (metric tons CO2)

20917000

(7.15.3.2) Gross Scope 1 methane emissions (metric tons CH4)

2000

(7.15.3.4) Total gross Scope 1 emissions (metric tons CO2e)

21048000

(7.15.3.5) Comment

The Total CO2e emissions include approximately 82,000 metric tons of N2O as CO2e and approximately 48,000 metric tons of CH4 as CO2e. DTE Electric does not report emissions of SF6 because those emissions are below the threshold that would require reporting to EPA's GHG reporting program.
[Fixed row]

(7.15.4) Break down your total gross global Scope 1 emissions from oil and gas value chain production activities by greenhouse gas type.

Row 1

(7.15.4.1) Emissions category

Select from:

☑ Combustion (excluding flaring)

(7.15.4.2) Value chain

Select all that apply

☑ Midstream

(7.15.4.3) Product

Select from:

☑ Gas

(7.15.4.4) Gross Scope 1 CO2 emissions (metric tons CO2)

209000

(7.15.4.5) Gross Scope 1 methane emissions (metric tons CH4)

40

(7.15.4.6) Total gross Scope 1 emissions (metric tons CO2e)

211000

Row 2

(7.15.4.1) Emissions category

Select from:

☑ Venting

(7.15.4.2) Value chain

Select all that apply

☑ Midstream

(7.15.4.3) Product

Select from:
☑ Gas

(7.15.4.4) Gross Scope 1 CO2 emissions (metric tons CO2)

5

(7.15.4.5) Gross Scope 1 methane emissions (metric tons CH4)

500

(7.15.4.6) Total gross Scope 1 emissions (metric tons CO2e)

14000

Row 3

(7.15.4.1) Emissions category

Select from:
☑ Fugitives

(7.15.4.2) Value chain

Select all that apply
☑ Midstream

(7.15.4.3) Product

Select from:
☑ Gas

(7.15.4.4) Gross Scope 1 CO2 emissions (metric tons CO2)

400

(7.15.4.5) Gross Scope 1 methane emissions (metric tons CH4)

13000

(7.15.4.6) Total gross Scope 1 emissions (metric tons CO2e)

330000

Row 4

(7.15.4.1) Emissions category

Select from:

☑ Process (feedstock) emissions

(7.15.4.2) Value chain

Select all that apply

☑ Midstream

(7.15.4.3) Product

Select from:

☑ Gas

(7.15.4.4) Gross Scope 1 CO2 emissions (metric tons CO2)

0

(7.15.4.5) Gross Scope 1 methane emissions (metric tons CH4)

30

(7.15.4.6) Total gross Scope 1 emissions (metric tons CO2e)

900

Row 5

(7.15.4.1) Emissions category

Select from:
☑ Other (please specify) **:**Distribution

(7.15.4.2) Value chain

Select all that apply
☑ Downstream

(7.15.4.3) Product

Select from:
☑ Gas

(7.15.4.4) Gross Scope 1 CO2 emissions (metric tons CO2)

400

(7.15.4.5) Gross Scope 1 methane emissions (metric tons CH4)

13000

(7.15.4.6) Total gross Scope 1 emissions (metric tons CO2e)

326000
[Add row]

(7.16) Break down your total gross global Scope 1 and 2 emissions by country/area.

	Scope 1 emissions (metric tons CO2e)	Scope 2, location-based (metric tons CO2e)
United States of America	*22630000*	*115000*

[Fixed row]

(7.17.1) Break down your total gross global Scope 1 emissions by business division.

	Business division	Scope 1 emissions (metric ton CO2e)
Row 1	*DTE Electric Company*	*21048000*
Row 3	*DTE Vantage*	*862000*
Row 4	*DTE Gas Company*	*721000*

[Add row]

(7.17.2) Break down your total gross global Scope 1 emissions by business facility.

Row 1

(7.17.2.1) Facility

Wilmot Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

240

(7.17.2.3) Latitude

43.456647

(7.17.2.4) Longitude

-83.18826

Row 3

(7.17.2.1) Facility

Pinnacle Gas Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

5000

(7.17.2.3) Latitude

39.69537

(7.17.2.4) Longitude

-84.25729

Row 4

(7.17.2.1) Facility

Belle River Mills Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

79000

(7.17.2.3) Latitude

42.788333

(7.17.2.4) Longitude

-82.530827

Row 5

(7.17.2.1) Facility

Pagels Dairy Dreams

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

120

Row 6

(7.17.2.1) Facility

Sunshine Gas Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

210

(7.17.2.3) Latitude

34.32281

(7.17.2.4) Longitude

-118.51069

Row 7

(7.17.2.1) Facility

Non-Stationary sources (DTE Gas Company)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

14000

Row 8

(7.17.2.1) Facility

Ford BU Gen Claymine

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

170

Row 9

(7.17.2.1) Facility

Marietta

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

79000

(7.17.2.3) Latitude

39.37403

(7.17.2.4) Longitude

-81.50578

Row 10

(7.17.2.1) Facility

Non-Stationary sources (DTE Electric Company)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

21000

Row 11

(7.17.2.1) Facility

Riverview Energy Systems

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

70

(7.17.2.3) Latitude

42.156165

(7.17.2.4) Longitude

-83.21225

Row 12

(7.17.2.1) Facility

Keifer Landfill Generation

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

20

(7.17.2.3) Latitude

38.51874

(7.17.2.4) Longitude

-121.1852

Row 13

(7.17.2.1) Facility

EC-TNAP

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3000

Row 14

(7.17.2.1) Facility

DTE St. Bernard, LLC

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

83000

(7.17.2.3) Latitude

39.174635

(7.17.2.4) Longitude

-84.501807

Row 15

(7.17.2.1) Facility

Oliver Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

110

(7.17.2.3) Latitude

43.82684

(7.17.2.4) Longitude

-83.23964

Row 16

(7.17.2.1) Facility

Northeast Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

1000

(7.17.2.3) Latitude

42.45033

(7.17.2.4) Longitude

-83.03797

Row 17

(7.17.2.1) Facility

Trenton Channel Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

1000

(7.17.2.3) Latitude

42.122172

(7.17.2.4) Longitude

-83.181271

Row 18

(7.17.2.1) Facility

Westside Gas Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

8000

(7.17.2.3) Latitude

41.919772

(7.17.2.4) Longitude

-85.68217

Row 19

(7.17.2.1) Facility

Grotegut - Maple Leaf

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

290

Row 20

(7.17.2.1) Facility

Dearborn Energy Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

141000

(7.17.2.3) Latitude

42.295444

(7.17.2.4) Longitude

-83.231911

Row 21

(7.17.2.1) Facility

River Rouge Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

120

(7.17.2.3) Latitude

42.273764

(7.17.2.4) Longitude

-83.112412

Row 22

(7.17.2.1) Facility

Iredell Transmission

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

70

(7.17.2.3) Latitude

35.770421

(7.17.2.4) Longitude

-80.823565

Row 23

(7.17.2.1) Facility

St. Paul

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

Row 24

(7.17.2.1) Facility

Energy Center - SHAP

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

10000

Row 25

(7.17.2.1) Facility

Stockton

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

9000

(7.17.2.3) Latitude

37.94323

(7.17.2.4) Longitude

-121.32993

Row 26

(7.17.2.1) Facility

Greenwood Energy Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

619000

(7.17.2.3) Latitude

43.105526

(7.17.2.4) Longitude

-82.697386

Row 27

(7.17.2.1) Facility

Kewaunee Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

3000

(7.17.2.3) Latitude

44.61642

(7.17.2.4) Longitude

-87.63395

Row 28

(7.17.2.1) Facility

EC-MACK

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

37000

Row 29

(7.17.2.1) Facility

Belle River Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

4753000

(7.17.2.3) Latitude

42.774371

(7.17.2.4) Longitude

-82.495482

Row 30

(7.17.2.1) Facility

Colfax

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

100

(7.17.2.3) Latitude

42.65929

(7.17.2.4) Longitude

-84.09551

Row 31

(7.17.2.1) Facility

Putnam Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

150

(7.17.2.3) Latitude

43.34707

(7.17.2.4) Longitude

-83.38262

Row 32

(7.17.2.1) Facility

Renaissance Power

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

902000

(7.17.2.3) Latitude

43.186187

(7.17.2.4) Longitude

-84.842994

Row 33

(7.17.2.1) Facility

Mt. Poso

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

4000

(7.17.2.3) Latitude

35.60347

(7.17.2.4) Longitude

-119.07746

Row 34

(7.17.2.1) Facility

Ford BU Gen R&E

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

90

Row 35

(7.17.2.1) Facility

Milford Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

78000

(7.17.2.3) Latitude

42.54345

(7.17.2.4) Longitude

-83.56479

Row 36

(7.17.2.1) Facility

DTE Calvert City, LLC

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

199000

(7.17.2.3) Latitude

37.048101

(7.17.2.4) Longitude

-88.353361

Row 37

(7.17.2.1) Facility

Monroe Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

11419000

(7.17.2.3) Latitude

41.890749

(7.17.2.4) Longitude

-83.34523

Row 38

(7.17.2.1) Facility

New Chester Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2000

(7.17.2.3) Latitude

43.88169

(7.17.2.4) Longitude

-89.68

Row 39

(7.17.2.1) Facility

DTE Energy MichCon LDC

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

328000

(7.17.2.3) Latitude

42.33375

(7.17.2.4) Longitude

-83.057636

Row 40

(7.17.2.1) Facility

Bluewater Energy Center

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2786000

(7.17.2.3) Latitude

42.77544

(7.17.2.4) Longitude

-82.47925

Row 41

(7.17.2.1) Facility

Superior Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

150

(7.17.2.3) Latitude

42.2644

(7.17.2.4) Longitude

-83.6425

Row 42

(7.17.2.1) Facility

Uwharrie Mountain Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

100

(7.17.2.3) Latitude

35.3329

(7.17.2.4) Longitude

-79.965507

Row 43

(7.17.2.1) Facility

Rosendale Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2000

(7.17.2.3) Latitude

43.86789

(7.17.2.4) Longitude

-88.71796

Row 44

(7.17.2.1) Facility

Seabreeze Energy Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

6

(7.17.2.3) Latitude

29.148087

(7.17.2.4) Longitude

-95.37494

Row 45

(7.17.2.1) Facility

Willow Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

22000

(7.17.2.3) Latitude

42.2535

(7.17.2.4) Longitude

-83.551255

Row 46

(7.17.2.1) Facility

Hancock

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2000

(7.17.2.3) Latitude

42.54927

(7.17.2.4) Longitude

-83.43896

Row 47

(7.17.2.1) Facility

Fort Bend Power Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

6

(7.17.2.3) Latitude

29.40007

(7.17.2.4) Longitude

-95.71431

Row 48

(7.17.2.1) Facility

DTE Atlantic, LLC

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

38000

(7.17.2.3) Latitude

39.37339

(7.17.2.4) Longitude

-74.43632

Row 49

(7.17.2.1) Facility

EC-ITP1

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

0

(7.17.2.3) Latitude

40.5238

(7.17.2.4) Longitude

-86.1196

Row 50

(7.17.2.1) Facility

EC-SSP

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

520

Row 51

(7.17.2.1) Facility

Blue Water Renewables

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

70

(7.17.2.3) Latitude

42.917648

(7.17.2.4) Longitude

-82.59357

Row 52

(7.17.2.1) Facility

Alpena Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

20

(7.17.2.3) Latitude

44.0753

(7.17.2.4) Longitude

-84.67699

Row 53

(7.17.2.1) Facility

Dane Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

730

(7.17.2.3) Latitude

43.183388

(7.17.2.4) Longitude

-89.163997

Row 54

(7.17.2.1) Facility

EC-ITP2

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2000

Row 55

(7.17.2.1) Facility

Potrero Renewable Energy

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

80

(7.17.2.3) Latitude

38.21193

(7.17.2.4) Longitude

-121.97918

Row 56

(7.17.2.1) Facility

Taggart (Six Lakes) Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

37000

(7.17.2.3) Latitude

43.44356

(7.17.2.4) Longitude

-85.142801

Row 57

(7.17.2.1) Facility

St. Clair Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

2000

(7.17.2.3) Latitude

42.763663

(7.17.2.4) Longitude

-82.472341

Row 58

(7.17.2.1) Facility

Delray

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

14000

(7.17.2.3) Latitude

42.294976

(7.17.2.4) Longitude

-83.102101

Row 59

(7.17.2.1) Facility

Kalkaska Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

7000

(7.17.2.3) Latitude

44.693267

(7.17.2.4) Longitude

-85.202699

Row 60

(7.17.2.1) Facility

DTE East China (Dean Peakers)

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

383000

(7.17.2.3) Latitude

42.774417

(7.17.2.4) Longitude

-82.481913

Row 61

(7.17.2.1) Facility

Ford BU Gen WHQ

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

70

Row 62

(7.17.2.1) Facility

Davidson Gas Producers

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

30

(7.17.2.3) Latitude

35.841655

(7.17.2.4) Longitude

-80.18347

Row 63

(7.17.2.1) Facility

EES Coke Battery

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

332000

(7.17.2.3) Latitude

42.281083

(7.17.2.4) Longitude

-83.111722

Row 64

(7.17.2.1) Facility

Adrian Energy Associates

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

20

(7.17.2.3) Latitude

41.888977

(7.17.2.4) Longitude

-83.99245

Row 65

(7.17.2.1) Facility

Columbus Compressor Station

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

6000

(7.17.2.3) Latitude

42.85265

(7.17.2.4) Longitude

-82.20269

Row 66

(7.17.2.1) Facility

Energy Center - WTAP

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

30000

Row 67

(7.17.2.1) Facility

Enrico Fermi II Nuclear Power Plant

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

1000

(7.17.2.3) Latitude

41.962868

(7.17.2.4) Longitude

-83.25762

Row 68

(7.17.2.1) Facility

Placid Peaker

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

90

(7.17.2.3) Latitude

42.715155

(7.17.2.4) Longitude

-83.457852

Row 69

(7.17.2.1) Facility

Salem Energy Systems

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

60

(7.17.2.3) Latitude

36.18745

(7.17.2.4) Longitude

-80.28242

Row 70

(7.17.2.1) Facility

Pagels Ponderosa

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

250

(7.17.2.3) Latitude

44.49988

(7.17.2.4) Longitude

-87.59559

Row 71

(7.17.2.1) Facility

Salt Lake Energy Systems

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

40

(7.17.2.3) Latitude

40.74041

(7.17.2.4) Longitude

-112.03467

Row 72

(7.17.2.1) Facility

Woodland Biomass Power Ltd

(7.17.2.2) Scope 1 emissions (metric tons CO2e)

6000
[Add row]

(7.17.3) Break down your total gross global Scope 1 emissions by business activity.

	Activity	Scope 1 emissions (metric tons CO2e)
Row 1	*Mobile Combustion Sources (Vehicles)*	*44000*
Row 3	*Stationary Sources (Combustion and Fugitives)*	*22586000*

[Add row]

(7.19) Break down your organization’s total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

Electric utility activities

(7.19.1) Gross Scope 1 emissions, metric tons CO2e

21048000

(7.19.3) Comment

These are the emissions associated with DTE Electric sources reported to regulatory agencies.

Oil and gas production activities (downstream)

(7.19.1) Gross Scope 1 emissions, metric tons CO2e

326000

(7.19.3) Comment

The emissions reported in the Gross Scope 1 emissions column are for DTE Gas Downstream emissions reported to regulatory agencies and voluntary reporting frameworks like One Future. The DTE Gas Midstream Gross Scope 1 emissions are 721,000 MT CO2e. These are unable to be reported in this report accurately.
[Fixed row]

(7.20.3) Break down your total gross global Scope 2 emissions by business activity.

	Activity	Scope 2, location-based (metric tons CO2e)
Row 1	*Transmission and distribution line losses of purchased power on the DTE Electric Company system*	*115000*

[Add row]

(7.27) What are the challenges in allocating emissions to different customers, and what would help you to overcome these challenges?

Row 1

(7.27.1) Allocation challenges

Select from:
☑ Customer base is too large and diverse to accurately track emissions to the customer level

(7.27.2) Please explain what would help you overcome these challenges

DTE Energy provides two commodities to customers: Electricity and Natural Gas. Emissions from customer energy use can be calculated by applying emission factors to each customer's total energy usage. We do not see a need at this time to allocate emissions to customers when estimated emissions can be calculated by the customer.
[Add row]

(7.28) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

(7.28.1) Do you plan to develop your capabilities to allocate emissions to your customers in the future?

Select from:

☑ No

(7.28.3) Primary reason for no plans to develop your capabilities to allocate emissions to your customers

Select from:

☑ Other, please specify

(7.28.4) Explain why you do not plan to develop capabilities to allocate emissions to your customers

DTE Energy provides electricity and gas to our customers. The GHG emissions from the electricity delivered by DTE Electric to our customers can be calculated using EPA's e-GRID emission factors for electricity purchased off of the energy grid or by using an estimate of GHG intensity of electricity delivered to our customers in the EEI Electric Company Carbon Emissions and Electricity Mix Reporting Database which is available to customers for use in calculating their Scope 2 emissions: https://www.eei.org/Pages/CO2Emissions.aspx, or based on contracts and/or bilateral agreements with electricity providers such as renewable or other low-carbon energy providers. Customers can calculate emissions from DTE Gas deliveries using the volume of gas delivered and billed by DTE Gas times an emission factor for natural gas provided by EPA or other sources.
[Fixed row]

(7.30) Select which energy-related activities your organization has undertaken.

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of fuel (excluding feedstocks)	*Select from:* ☑ Yes

	Indicate whether your organization undertook this energy-related activity in the reporting year
Consumption of purchased or acquired electricity	*Select from:* ☑ Yes
Consumption of purchased or acquired heat	*Select from:* ☑ No
Consumption of purchased or acquired steam	*Select from:* ☑ No
Consumption of purchased or acquired cooling	*Select from:* ☑ No
Generation of electricity, heat, steam, or cooling	*Select from:* ☑ Yes

[Fixed row]

(7.30.6) Select the applications of your organization’s consumption of fuel.

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of electricity	*Select from:* ☑ Yes
Consumption of fuel for the generation of heat	*Select from:* ☑ Yes

	Indicate whether your organization undertakes this fuel application
Consumption of fuel for the generation of steam	*Select from:* ☑ Yes
Consumption of fuel for the generation of cooling	*Select from:* ☑ No
Consumption of fuel for co-generation or tri-generation	*Select from:* ☑ No

[Fixed row]

(7.33.1) Disclose the following information about your transmission and distribution business.

Row 2

(7.33.1.1) Country/area/region

Select from:
☑ United States of America

(7.33.1.2) Voltage level

Select from:
☑ Distribution (low voltage)

(7.33.1.3) Annual load (GWh)

42049.0

(7.33.1.4) Annual energy losses (% of annual load)

3.49

(7.33.1.5) Scope where emissions from energy losses are accounted for

Select from:
☑ Scope 2 (location-based)

(7.33.1.7) Length of network (km)

76330.0

(7.33.1.8) Number of connections

2300000.0

(7.33.1.9) Area covered (km2)

52620.0

(7.33.1.10) Comment

DTE Electric Company has approximately 2.3 million residential, commercial, and industrial customers in southeastern Michigan. Scope 2 emissions are reported for energy losses from purchased power that travels thought the DTE distribution system. Emissions are calculated using US EPA's eGRID2019 CO2e emission factor for RFC Michigan (published 2/23/2021).
[Add row]

(7.45) Describe your gross global combined Scope 1 and 2 emissions for the reporting year in metric tons CO2e per unit currency total revenue and provide any additional intensity metrics that are appropriate to your business operations.

Row 1

(7.45.1) Intensity figure

0.0018

(7.45.2) Metric numerator (Gross global combined Scope 1 and 2 emissions, metric tons CO2e)

22745000

(7.45.3) Metric denominator

Select from:

☑ unit total revenue

(7.45.4) Metric denominator: Unit total

12745000000

(7.45.5) Scope 2 figure used

Select from:

☑ Location-based

(7.45.6) % change from previous year

20

(7.45.7) Direction of change

Select from:

☑ Increased

(7.45.8) Reasons for change

Select all that apply

☑ Other emissions reduction activities

☑ Change in revenue

(7.45.9) Please explain

A decrease in emissions (16%) with a larger decrease in company operating revenue (34%) resulting in a 20% increase in financial intensity overall for DTE Energy Company.
[Add row]

(7.46) For your electric utility activities, provide a breakdown of your Scope 1 emissions and emissions intensity relating to your total power plant capacity and generation during the reporting year by source.

Coal – hard

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

16588000

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

1080.44

Oil

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

9000

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Gross

(7.46.3) Scope 1 emissions intensity (Gross generation)

33.21

Gas

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

4421000

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

376.16

Nuclear

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Hydropower

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Wind

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Solar

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

0

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:

☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

0.00

Total

(7.46.1) Absolute scope 1 emissions (metric tons CO2e)

21018000

(7.46.2) Emissions intensity based on gross or net electricity generation

Select from:
☑ Net

(7.46.4) Scope 1 emissions intensity (Net generation)

515.51
[Fixed row]

(7.48) Provide the intensity figures for Scope 1 emissions (metric tons CO2e) per unit of hydrocarbon category.

Row 1

(7.48.1) Unit of hydrocarbon category (denominator)

Select from:
☑ Other, please specify :Billion Cubic Feet of Natural Gas

(7.48.2) Metric tons CO2e from hydrocarbon category per unit specified

0.85

(7.48.3) % change from previous year

28

(7.48.4) Direction of change

Select from:

☑ Increased

(7.48.5) Reason for change

The decrease in emissions was less than the decrease in cubic feet of natural gas transported in the transmission pipelines owned by DTE Energy.

(7.48.6) Comment

The 2023 total scope 1 emissions decreased by 9% while the natural gas that was delivered decreased by 28%. This resulted in an intensity increase of 28%.
[Add row]

(7.53.1) Provide details of your absolute emissions targets and progress made against those targets.

Row 1

(7.53.1.1) Target reference number

Select from:

☑ Abs 1

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

38010000

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

38010000.000

(7.53.1.54) End date of target

12/31/2023

(7.53.1.55) Targeted reduction from base year (%)

32

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

25846800.000

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

21019000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

21019000.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

139.69

(7.53.1.80) Target status in reporting year

Select from:

☑ Achieved and maintained

(7.53.1.82) Explain target coverage and identify any exclusions

The target is related to DTE Electric Scope 1 emissions only.

(7.53.1.86) List the emissions reduction initiatives which contributed most to achieving this target

Emission reduction initiatives that contributed the most to achieving this target is the retirement of several coal plants and the start-up of our natural gas combined cycle plant in 2021.

Row 2

(7.53.1.1) Target reference number

Select from:

☑ Abs 2

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

38010000

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

38010000.000

(7.53.1.54) End date of target

12/31/2028

(7.53.1.55) Targeted reduction from base year (%)

65

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

13303500.000

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

21019000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

21019000.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

68.77

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

The target is related to DTE Electric Scope 1 emissions only.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

The plan for achieving target can be found in the 2023 DTE Electric Settlement Agreement: https://mi-psc.force.com/s/case/5008y000002yQhVAA/in-the-matter-of-the-application-of-dte-electric-company-for-approval-of-its-integrated-resource-plan-pursuant-to-mcl-4606t-and-for-other-relief An overview of DTE Electric's generation strategy and plan is available here https://dtecleanenergy.com/

Row 3

(7.53.1.1) Target reference number

Select from:

☑ Abs 3

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

38010000

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

38010000.000

(7.53.1.54) End date of target

12/31/2040

(7.53.1.55) Targeted reduction from base year (%)

90

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

3801000.000

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

21019000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

21019000.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

49.67

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

The target is related to DTE Electric Scope 1 emissions only.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

The plan for achieving target can be found in the 2023 DTE Electric Settlement Agreement: https://mi-psc.force.com/s/case/5008y000002yQhVAA/in-the-matter-of-the-application-of-dte-electric-company-for-approval-of-its-integrated-resource-plan-pursuant-to-mcl-4606t-and-for-other-relief An overview of DTE Electric's generation strategy and plan is available here https://dtecleanenergy.com/

Row 4

(7.53.1.1) Target reference number

Select from:

☑ Abs 4

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.12) Base year Scope 1 emissions covered by target (metric tons CO2e)

38010000

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

38010000.000

(7.53.1.54) End date of target

12/31/2050

(7.53.1.55) Targeted reduction from base year (%)

100

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

0.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.79) % of target achieved relative to base year

100.00

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

The target is related to DTE Electric Scope 1 emissions only.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

The plan for achieving target can be found in the 2023 DTE Electric Settlement Agreement: https://mi-psc.force.com/s/case/5008y000002yQhVAA/in-the-matter-of-the-application-of-dte-electric-company-for-approval-of-its-integrated-resource-plan-pursuant-to-mcl-4606t-and-for-other-relief An overview of DTE Electric's generation strategy and plan is available here https://dtecleanenergy.com/

Row 6

(7.53.1.1) Target reference number

Select from:

☑ Abs 5

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.7) Greenhouse gases covered by target

Select all that apply

☑ Carbon dioxide (CO2)

☑ Methane (CH4)

☑ Nitrous oxide (N2O)

(7.53.1.8) Scopes

Select all that apply

☑ Scope 3

(7.53.1.10) Scope 3 categories

Select all that apply

☑ Scope 3, Category 1 – Purchased goods and services

☑ Scope 3, Category 3 – Fuel- and energy- related activities (not included in Scope 1 or 2)

☑ Scope 3, Category 4 – Upstream transportation and distribution

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.54) End date of target

12/31/2050

(7.53.1.55) Targeted reduction from base year (%)

100

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.59) Scope 3, Category 1: Purchased goods and services emissions in reporting year covered by target (metric tons CO2e)

285999

(7.53.1.61) Scope 3, Category 3: Fuel-and-energy-related activities (not included in Scopes 1 or 2) emissions in reporting year covered by target (metric tons CO2e)

28000

(7.53.1.62) Scope 3, Category 4: Upstream transportation and distribution emissions in reporting year covered by target (metric tons CO2e)

234000

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

547999.000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

547999.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

This emission target includes the following Scope 3 categories: Category 1: Purchased Goods and Services - Emissions associated with the production of natural gas - from the ground (wellhead) to pipeline injection. Includes combustion emissions from gas-fired production equipment and emissions associated with methane either leaked or vented during production operations. Category 3: Fuel and Energy-related Activities - Emissions associated with the production and transportation of gas volumes combusted, leaked, or vented by DTE Gas during distribution operations. Category 4: Upstream Transportation and Distribution - Emissions associated with the transportation of natural gas from the pipeline injection point to the DTE Gas citygate. Includes combustion emissions from gas-fired transmission equipment (e.g., compressors) and emissions associated with methane either leaked or vented during transportation.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

DTE Gas expects to achieve this net zero carbon emissions for natural gas procured by DTE Gas by encouraging transparent and consistent reporting of methane emissions intensity (e.g. via ONE Future), working to source gas with lower methane intensities, and pursuing programs that promote a cleaner natural gas product such as EPA's Natural Gas STAR program.

Row 7

(7.53.1.1) Target reference number

Select from:

☑ Abs 6

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.8) Scopes

Select all that apply

☑ Scope 1

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.53) Base year emissions covered by target in all selected Scopes as % of total base year emissions in all selected Scopes

100.0

(7.53.1.54) End date of target

12/31/2050

(7.53.1.55) Targeted reduction from base year (%)

100

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.57) Scope 1 emissions in reporting year covered by target (metric tons CO2e)

706000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

706000.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

DTE Gas is currently evaluating the baseline for this net zero goal and will disclose a revised baseline when this is effort is finalized. This goal covers combustion and fugitive emission within DTE's gas distribution system.

(7.53.1.84) Plan for achieving target, and progress made to the end of the reporting year

DTE Gas has been reducing emissions in our internal local distribution company (LDC) by replacing aging steel and cast-iron pipe with durable plastic pipe across the service territory. DTE Gas also is implementing new technologies to upgrade compressor station components, detect leaks more quickly, and to reduce gas being vented to the atmosphere during pipeline and compressor station maintenance activities.

Row 8

(7.53.1.1) Target reference number

Select from:

☑ Abs 7

(7.53.1.2) Is this a science-based target?

Select from:

☑ No, and we do not anticipate setting one in the next two years

(7.53.1.6) Target coverage

Select from:

☑ Business division

(7.53.1.8) Scopes

Select all that apply

☑ Scope 3

(7.53.1.10) Scope 3 categories

Select all that apply

☑ Scope 3, Category 11 – Use of sold products

(7.53.1.11) End date of base year

12/31/2005

(7.53.1.31) Base year total Scope 3 emissions covered by target (metric tons CO2e)

0.000

(7.53.1.32) Total base year emissions covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.54) End date of target

12/31/2040

(7.53.1.55) Targeted reduction from base year (%)

35

(7.53.1.56) Total emissions at end date of target covered by target in all selected Scopes (metric tons CO2e)

0.000

(7.53.1.69) Scope 3, Category 11: Use of sold products emissions in reporting year covered by target (metric tons CO2e)

7785000

(7.53.1.76) Total Scope 3 emissions in reporting year covered by target (metric tons CO2e)

7785000.000

(7.53.1.77) Total emissions in reporting year covered by target in all selected scopes (metric tons CO2e)

7785000.000

(7.53.1.78) Land-related emissions covered by target

Select from:

☑ No, it does not cover any land-related emissions (e.g. non-FLAG SBT)

(7.53.1.80) Target status in reporting year

Select from:

☑ Underway

(7.53.1.82) Explain target coverage and identify any exclusions

Emissions from combustion of gas sold to DTE customers (excludes End-Use Transportation customers for gas supplied by others but delivered by DTE). DTE Gas is currently evaluating the baseline for this net zero goal and will disclose a revised baseline when this is effort is finalized.
[Add row]

(7.54.2) Provide details of any other climate-related targets, including methane reduction targets.

Row 1

(7.54.2.1) Target reference number

Select from:

☑ Oth 1

(7.54.2.3) Target coverage

Select from:
☑ Business division

(7.54.2.4) Target type: absolute or intensity

Select from:
☑ Absolute

(7.54.2.5) Target type: category & Metric (target numerator if reporting an intensity target)

Net emissions target
☑ Other net emissions target, please specify **:**Net zero emissions in 2050 from DTE Gas Scope 3 upstream

(7.54.2.9) End date of target

12/31/2050

(7.54.2.10) Figure or percentage at end of date of target

100

(7.54.2.13) Target status in reporting year

Select from:
☑ Underway

Row 2

(7.54.2.1) Target reference number

Select from:
☑ Oth 2

(7.54.2.3) Target coverage

Select from:
☑ Business division

(7.54.2.4) Target type: absolute or intensity

Select from:
☑ Absolute

(7.54.2.5) Target type: category & Metric (target numerator if reporting an intensity target)

Net emissions target
☑ Other net emissions target, please specify **:**35% reduction for DTE Gas Scope 3 downstream emissions

(7.54.2.9) End date of target

12/31/2040

(7.54.2.10) Figure or percentage at end of date of target

35

(7.54.2.13) Target status in reporting year

Select from:
☑ Underway
[Add row]

(7.55.2) Provide details on the initiatives implemented in the reporting year in the table below.

Row 1

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy generation

☑ Wind

(7.55.2.9) Comment

Aquired Big Turtle 2 wind park in 2023 (29.4 MW)

Row 2

(7.55.2.1) Initiative category & Initiative type

Low-carbon energy generation

☑ Solar PV

(7.55.2.9) Comment

Construction began on Sauk (150 MW), Pine River (80 MW), and Polaris (100 MW) solar projects in 2023

Row 3

(7.55.2.1) Initiative category & Initiative type

Transportation

☑ Company fleet vehicle replacement

(7.55.2.9) Comment

20 fleet vehicles replaced with EV's in 2023

Row 4

(7.55.2.1) Initiative category & Initiative type

Company policy or behavioral change

☑ Customer engagement

(7.55.2.9) Comment

See 2023 Annual Energy Efficiency Report: https://empoweringmichigan.com/wp-content/uploads/DTEEnergyEfficiencyAnnualReport2023.pdf
[Add row]

(7.55.3) What methods do you use to drive investment in emissions reduction activities?

Row 1

(7.55.3.1) Method

Select from:

☑ Dedicated budget for energy efficiency

Row 2

(7.55.3.1) Method

Select from:

☑ Compliance with regulatory requirements/standards

Row 3

(7.55.3.1) Method

Select from:

☑ Internal price on carbon

Row 4

(7.55.3.1) Method

Select from:
☑ Dedicated budget for low-carbon product R&D
[Add row]

(7.74.1) Provide details of your products and/or services that you classify as low-carbon products.

Row 2

(7.74.1.1) Level of aggregation

Select from:
☑ Group of products or services

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:
☑ Other, please specify **:**Verified net energy savings are DTE's reported savings after they have been adjusted based on the results of a review by our independent evaluation contractor, Guidehouse, Inc.

(7.74.1.3) Type of product(s) or service(s)

Power
☑ Other, please specify

(7.74.1.4) Description of product(s) or service(s)

DTE Electric customer Energy Waste Reduction Program offerings

(7.74.1.5) Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Select from:

☑ Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

☑ Other, please specify **:**Verified net energy savings are DTE's reported savings after they have been adjusted based on the results of a review by our independent evaluation contractor, Guidehouse, Inc.

(7.74.1.7) Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Select from:

☑ Use stage

(7.74.1.8) Functional unit used

Total EWR Electric Portfolio

(7.74.1.9) Reference product/service or baseline scenario used

Varies by technology

(7.74.1.10) Life cycle stage(s) covered for the reference product/service or baseline scenario

Select from:

☑ Not applicable

(7.74.1.11) Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

5450692

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

The Guidehouse Evaluation Team used one of the industry-standard commercially available market dispatch models, Power System Optimizer (PSO), to forecast the average generation mix, marginal generation mix, heat rates and greenhouse gas emission rates of generation plants in the MISO market for 2023 through 2031. To determine cumulative greenhouse gas reductions over the lifetime of savings for the 2023 EWR programs, the Guidehouse Evaluation Team used the market model's forecasted marginal emissions factors each year from 2023 through 2031, based on the calculated electric weighted average measure life value. The first year CO2 emission reduction were 659,703 metric tons, and the lifetime CO2 emission reductions were 5,450,692 metric tons.

(7.74.1.13) Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

3.69

Row 3

(7.74.1.1) Level of aggregation

Select from:

☑ Product or service

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ Other, please specify **:**MIGreenPower is Green-e Energy Certified

(7.74.1.4) Description of product(s) or service(s)

MIGreenPower is among the largest voluntary renewable energy programs in the United States. The program enables DTE Electric's residential and business customers to attribute an even greater percentage of their electricity use to Michigan-made wind and solar projects beyond the 15% DTE already provides. The company has more than 800 businesses enrolled in the program along with more than 85,000 residential customers. On an annual basis, MIGreenPower customers have enrolled four million megawatt hours of clean energy in the program. Program participation is accelerating the development of new wind and solar projects in Michigan. By 2026, DTE will add more than 2,000 megawatts of new clean energy projects to meet program demand. For business customers, participation at any level is Green-e Energy certified. For residential customers, participation at or above the 25 percent level is required for Green-e certification. Both meet the environmental and consumer-protection standards set forth by the nonprofit Center for Resource Solutions.

Row 4

(7.74.1.1) Level of aggregation

Select from:

☑ Group of products or services

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ Other, please specify **:**Verified net energy savings are DTE's reported savings after they have been adjusted based on the results of a review by our independent evaluation contractor, Guidehouse, Inc.

(7.74.1.3) Type of product(s) or service(s)

Power

☑ Other, please specify

(7.74.1.4) Description of product(s) or service(s)

DTE Gas customer Energy Waste Reduction Program offerings

(7.74.1.5) Have you estimated the avoided emissions of this low-carbon product(s) or service(s)

Select from:

☑ Yes

(7.74.1.6) Methodology used to calculate avoided emissions

Select from:

☑ Other, please specify **:**Verified net energy savings are DTE's reported savings after they have been adjusted based on the results of a review by our independent evaluation contractor, Guidehouse, Inc.

(7.74.1.7) Life cycle stage(s) covered for the low-carbon product(s) or services(s)

Select from:

☑ Use stage

(7.74.1.8) Functional unit used

Total EWR Gas Portfolio

(7.74.1.9) Reference product/service or baseline scenario used

Varies by technology

(7.74.1.10) Life cycle stage(s) covered for the reference product/service or baseline scenario

Select from:

☑ Not applicable

(7.74.1.11) Estimated avoided emissions (metric tons CO2e per functional unit) compared to reference product/service or baseline scenario

1176617

(7.74.1.12) Explain your calculation of avoided emissions, including any assumptions

Using greenhouse gas emissions reduction information available from the Environmental Protection Agency's Greenhouse Gas Emission Factors Hub, the Guidehouse Evaluation Team calculated total emissions reductions for gas energy savings resulting from the 2023 EWR programs. To determine total verified net lifetime emissions reductions for the 2023 EWR programs, the Guidehouse Evaluation Team multiplied annual emissions reductions by the calculated gas weighted average measure life value. The first year CO2 emission reduction were 116,909 metric tons, and the lifetime CO2 emission reductions were 1,176,617 metric tons.

(7.74.1.13) Revenue generated from low-carbon product(s) or service(s) as % of total revenue in the reporting year

3.25

Row 5

(7.74.1.1) Level of aggregation

Select from:

☑ Product or service

(7.74.1.2) Taxonomy used to classify product(s) or service(s) as low-carbon

Select from:

☑ Other, please specify **:**EPA Landfill Methane Outreach Program and

(7.74.1.4) Description of product(s) or service(s)

As part of DTE Energy's 2050 net zero commitment, DTE Gas launched its CleanVision Natural Gas Balance program in January 2021 that offers customers a way to reduce their carbon footprint using carbon offsets and renewable natural gas. The carbon offset program is focused on protecting Michigan forests that naturally absorb carbon dioxide. DTE Gas residential and small business customers may elect to pay a premium in increments starting at 4.00 per month to offset 25 to 100 percent or more of their greenhouse gas emissions and to support the development and utilization of natural gas generated from biogas resources.
[Add row]

C9. Environmental performance - Water security

(9.1.1) Provide details on these exclusions.

Row 1

(9.1.1.1) Exclusion

Select from:

☑ Other, please specify :Electric Generation Operations

(9.1.1.2) Description of exclusion

DTE Energy does not track and therefore, is not including, water inputs and outputs from facilities unless specifically monitored as part of a NPDES permit or local sanitary sewer permit. Also, DTE Energy is not including information from local sanitary sewer permits required as part of a short term, less than 1 year, construction project. The water withdrawal for general use and short-term permitted construction projects is significantly less than that of the steam electric power generating stations which are included in this report.

(9.1.1.3) Reason for exclusion

Select from:

☑ Data is not available

(9.1.1.4) Primary reason why data is not available

Select from:

☑ Judged to be unimportant or not relevant

(9.1.1.7) Percentage of water volume the exclusion represents

Select from:

☑ Less than 1%

(9.1.1.8) Please explain

DTE Energy is reporting on its facilities that operate under National Pollutant Discharge Elimination System (NPDES) permits and/or local sanitary sewer permits and discharge greater than or equal to one hundred thousand gallons annually. The water usage data is adjusted based on the DTE ownership percentage of each facility. (e.g. 81.39% Belle River Power Plant, 49% Ludington Pump Station.) DTE Energy's largest water withdrawal is from our steam electric power generating stations within the DTE Electric organization. DTE Electric facilities that are included are: Belle River Power Plant, Blue Water Energy Center, Fermi II Nuclear Power Plant, Greenwood Energy Center, Monroe Power Plant, River Rouge Power Plant, Saint Clair Power Plant, Sibley Quarry, Trenton Channel Power Plant, and various electric manholes/vaults that discharge to the sanitary sewer within our service territory.

Row 2

(9.1.1.1) Exclusion

Select from:

☑ Other, please specify **:**Gas Distribution and Transmission Operations

(9.1.1.2) Description of exclusion

The company does not track all types of water inputs and outputs for its gas distribution, transmission and storage operations, which are generally not included in this report. The water withdrawal at these types of facilities is significantly less than that of the steam electric power generating stations which are included in this report.

(9.1.1.3) Reason for exclusion

Select from:

☑ Data is not available

(9.1.1.4) Primary reason why data is not available

Select from:

☑ Judged to be unimportant or not relevant

(9.1.1.7) Percentage of water volume the exclusion represents

Select from:

☑ Less than 1%

(9.1.1.8) Please explain

DTE Energy is reporting on its facilities that hold National Pollutant Discharge Elimination System (NPDES) permits and/or local sanitary sewer permits based on ownership of that facility. The only DTE Gas facility that is included is the Taggart Compressor Station.

Row 3

(9.1.1.1) Exclusion

Select from:

☑ Other, please specify **:**Service Centers, Call Centers, and Office Buildings

(9.1.1.2) Description of exclusion

The company does not track all types of water inputs and outputs for its service centers, call centers and office buildings, which are generally not included in this report with the exception of the Warren Service Center which has a sanitary sewer permit. The water withdrawal at these types of facilities is significantly less than that of the steam electric power generating stations. In general, the source of water at these facilities is purchased from local municipalities.

(9.1.1.3) Reason for exclusion

Select from:

☑ Data is not available

(9.1.1.4) Primary reason why data is not available

Select from:

☑ Judged to be unimportant or not relevant

(9.1.1.7) Percentage of water volume the exclusion represents

Select from:

☑ Less than 1%

(9.1.1.8) Please explain

DTE Energy is only reporting on its facilities that operate under National Pollutant Discharge Elimination System (NPDES) permits and/or local sanitary sewer permits based on ownership of that facility

Row 4

(9.1.1.1) Exclusion

Select from:

☑ Other, please specify **:**Non-Utility Operations

(9.1.1.2) Description of exclusion

DTE Energy does not track and therefore, is not including, water inputs and outputs from facilities unless specifically included as part of a NPDES permit or local sanitary sewer permit. DTE is not including facilities that discharge less than one million gallons annually. All other non-utility operation water usage is not reported

(9.1.1.3) Reason for exclusion

Select from:

☑ Data is not available

(9.1.1.4) Primary reason why data is not available

Select from:

☑ Judged to be unimportant or not relevant

(9.1.1.7) Percentage of water volume the exclusion represents

Select from:

☑ Less than 1%

(9.1.1.8) Please explain

DTE Energy is reporting on its facilities that hold National Pollutant Discharge Elimination System (NPDES) permits and/or local sanitary sewer permits based on ownership of that facility. DTE Vantage Facilities that are included are: EES Coke and DTE Northwind

Row 5

(9.1.1.1) Exclusion

Select from:

☑ Other, please specify **:**Other Utility Operations

(9.1.1.2) Description of exclusion

DTE Energy does not track and therefore, is not including, water inputs and outputs from this facility unless specifically monitored as part of a NPDES permit.

(9.1.1.3) Reason for exclusion

Select from:

☑ Data is not available

(9.1.1.4) Primary reason why data is not available

Select from:

☑ Judged to be unimportant or not relevant

(9.1.1.7) Percentage of water volume the exclusion represents

Select from:

☑ Less than 1%

(9.1.1.8) Please explain

DTE Energy is a minority owner of a pumped storage facility, Ludington Pump Storage Hydroelectric Power Plant, in Michigan. The water usage data is adjusted based on the DTE ownership percentage (e.g. 49% Ludington Pump Station.
[Add row]

(9.2) Across all your operations, what proportion of the following water aspects are regularly measured and monitored?

Water withdrawals – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Varies based on permit requirements.

(9.2.3) Method of measurement

Total withdrawals are calculated from withdrawal pump nameplate capacity and pump run time for surface water and groundwater sources and/or through metering for municipal water sources.

(9.2.4) Please explain

Of the 15 facilities included in this disclosure, 100% are measured and monitored for withdrawal volumes. The majority of the water withdrawn from the various sources is in the form of noncontact cooling water for our electric generating facilities. These freshwater withdrawals are measured and monitored for monthly NPDES reporting, as well as annual water use reporting for the state of Michigan. Many of the smaller volume water withdrawals may be monitored and measured for semi-annual and annual reporting to the local municipalities. For all of the facilities that hold a water related permit, we issue reports on withdrawal as required by federal, state and/or local regulations.

Water withdrawals – volumes by source

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements

(9.2.3) Method of measurement

Total withdrawals are calculated from withdrawal pump nameplate capacity and pump run time for surface water and groundwater sources and/or through metering for municipal water sources.

(9.2.4) Please explain

The majority of the water withdrawn from the various sources is in the form of noncontact cooling water for our electric generating facilities. These freshwater withdrawals are measured and monitored for monthly NPDES reporting, as well as annual water use reporting for the state of Michigan. Many of the smaller volume water withdrawals may be monitored and measured for semi-annual and annual reporting to the local municipalities. Other surface water withdrawals are made for dust control purposes, primarily at electric generation and coal processing facilities. These withdrawals are typically not measured or monitored. Other withdrawals are from ground water, rainwater and municipal water supplies; these withdrawals may not be measured, and account for

Produced water associated with your oil & gas sector activities - total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ Not relevant

(9.2.4) Please explain

DTE does not own or operate any facilities that have produced water associated with oil and gas activities.

Water withdrawals quality

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements.

(9.2.3) Method of measurement

The analytical methods required under the various permits are performed according to 40 CFR Part 136.

(9.2.4) Please explain

Of the 15 facilities included in this disclosure, up to 99% are measured and monitored for water withdrawals quality. We monitor water withdrawal quality at the facility level in accordance to the federal, state, and/or local water related permit. For example, per NPDES permit requirements, at all our power plants, we measure temperature of intake waters continuously. In addition to pH, total suspended solids (TSS), oil and grease, and total residual chlorine (TRC), some of our facilities monitor mercury as specified in the site's mercury Pollutant Minimization Program (PMP. Many of our facilities that withdraw water related to dewatering activities may only need to monitor for pH and oil and grease. Some of our facilities are only required to monitor and measure flow.

Water discharges – total volumes

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements.

(9.2.3) Method of measurement

Discharge is calculated by subtracting estimated total consumption from estimated total withdrawals.

(9.2.4) Please explain

Of the 15 facilities included in this disclosure, 100% are measured and monitored for water discharge volumes. Most of the total water discharged is in the form of noncontact cooling water from our electric generating facilities. These discharges from our power plants are measured and monitored for monthly NPDES reporting, as well as annual water use reporting for the state of Michigan. Our various other facilities are measured and monitored semi-annually and/or annually in accordance with the related water discharge permit. Reports are required by federal, state and /or local regulations.

Water discharges – volumes by destination

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements.

(9.2.3) Method of measurement

Discharge is calculated by subtracting estimated total consumption from estimated total withdrawals.

(9.2.4) Please explain

Of the 15 facilities included in this disclosure, 100% are measured and monitored for water discharge volumes by destination. Most of the water discharged by DTE Energy is in the form of noncontact cooling water from our electric generating facilities to surface waters. These discharges are returned to surface waters, and are measured and monitored for monthly NPDES reporting, as well as annual water use reporting for the state of Michigan. All permitted water discharges are reported as required by federal, state and local regulations.

Water discharges – volumes by treatment method

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.4) Please explain

On Site Treatment: Of the 15 facilities included in this disclosure, most of the water discharged (76-99%) is associated with our electric generating facilities, and are treated on site with various methods (e.g. chemical clarification, plain clarification, oil/water separation). Off Site Treatment: The remaining discharges are largely associated cooling and/or dewatering needs at our facilities and are either discharged without treatment, if not contaminated, or if potential to be contaminated, the

wastewater is collected and hauled to an independent off-site municipal treatment plants or private treatment storage & disposal facilities (TSDF) to be treated. These discharges are measured/monitored by the offsite facility.

Water discharge quality – by standard effluent parameters

(9.2.1) % of sites/facilities/operations

Select from:

☑ 76-99

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements.

(9.2.3) Method of measurement

The analytical methods required under the various permits are performed according to 40 CFR Part 136.

(9.2.4) Please explain

On Site Treatment: Water quality standards for most discharges are provided in the NPDES permits associated with DTE facilities. Of the 15 facilities included in this disclosure, 76-99% of the water discharge is covered by an NPDES permit. The NPDES program is administered by the state in which the discharge occurs. Off Site Treatment: Water quality standards for the remaining discharges are governed by the permits associated with the municipal treatment plants or private TSDFs, as applicable.

Water discharge quality – emissions to water (nitrates, phosphates, pesticides, and/or other priority substances)

(9.2.1) % of sites/facilities/operations

Select from:

☑ Not relevant

Water discharge quality – temperature

(9.2.1) % of sites/facilities/operations

Select from:

☑ 26-50

(9.2.2) Frequency of measurement

Select from:

☑ Other, please specify **:**Monitoring frequency varies based on permit requirements.

(9.2.3) Method of measurement

The analytical methods required under the various permits are performed according to 40 CFR Part 136.

(9.2.4) Please explain

Of the 15 facilities that hold a water permit, only 5 facilities are monitored for temperature at our water source and/or at one or more of our water discharge point(s) at a facility.

Water consumption – total volume

(9.2.1) % of sites/facilities/operations

Select from:

☑ 26-50

(9.2.2) Frequency of measurement

Select from:

☑ Yearly

(9.2.4) Please explain

Water consumption due to evaporation is calculated for 5 of the DTE facilities that hold a water related permit and reported annually to the State of Michigan. Consumption for these operations is neither measured nor monitored directly. However, measured and monitored data is used in the formulas for calculating water

consumption, which is accepted industry practice. The figures reported to the State of Michigan represents the evaporative loss, which is calculated for each facility using average monthly heat input, and regional and seasonal coefficients for evaporative loss; these values are then added and reported as total consumption for the facility. The consumption volume is not associated with other operations such as potable water needs, groundwater withdrawal/discharges, and dust control, which we do not monitor.

Water recycled/reused

(9.2.1) % of sites/facilities/operations

Select from:

☑ 1-25

(9.2.2) Frequency of measurement

Select from:

☑ Daily

(9.2.3) Method of measurement

Recirculation pump capacity is multiplied by the number of hours of operation to determine the amount of water recycled/reused.

(9.2.4) Please explain

Cooling water is recycled at two of our steam electric generating plants (Fermi 2 and Greenwood). Recirculation pump capacity is multiplied by the number of hours of operation to determine the amount of water recycled/reused.

The provision of fully-functioning, safely managed WASH services to all workers

(9.2.1) % of sites/facilities/operations

Select from:

☑ 100%

(9.2.2) Frequency of measurement

Select from:

☑ Unknown

(9.2.4) Please explain

Fully functioning Water Supply, Adequate Sanitation and Hygiene (WASH) is provided for all workers throughout the organization. Our operations are located in well-developed areas with modern facilities where WASH is readily available. WASH services are metered for billing purposes, which are mainly provided by local municipalities.
[Fixed row]

(9.2.1) For your hydropower operations, what proportion of the following water aspects are regularly measured and monitored?

Fulfilment of downstream environmental flows

(9.2.1.1) % of sites/facilities/operations measured and monitored

Select from:
☑ Not monitored

(9.2.1.2) Please explain

DTE Energy is a minority owner of a pumped storage facility in Michigan; this plant generates electricity and is regulated. Operations and water reporting for this facility is performed by the majority owner. DTE Energy does not monitor this aspect.

Sediment loading

(9.2.1.1) % of sites/facilities/operations measured and monitored

Select from:
☑ Not monitored

(9.2.1.2) Please explain

DTE Energy is a minority owner of a pumped storage facility in Michigan; this plant generates electricity and is regulated. Operations and water reporting for this facility is performed by the majority owner. DTE Energy does not monitor this aspect.
[Fixed row]

(9.2.2) What are the total volumes of water withdrawn, discharged, and consumed across all your operations, how do they compare to the previous reporting year, and how are they forecasted to change?

Total withdrawals

(9.2.2.1) Volume (megaliters/year)

2880000

(9.2.2.2) Comparison with previous reporting year

Select from:
☑ About the same

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:
☑ Facility closure

(9.2.2.4) Five-year forecast

Select from:
☑ About the same

(9.2.2.5) Primary reason for forecast

Select from:
☑ Increase/decrease in business activity

(9.2.2.6) Please explain

The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Total discharges

(9.2.2.1) Volume (megaliters/year)

2807000

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.2.4) Five-year forecast

Select from:

☑ About the same

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.2.6) Please explain

Discharge is calculated by subtracting estimated total consumption from estimated total withdrawals. The amount of withdrawal in 2023 was approximately 20% lower than in 2022. There was no generation activities at St. Clair Power Plant and Trenton Channel Power plant in 2023. DTE Energy is the process of ceasing operation of its coal fired generation plants, which will result in less total future withdrawals in the company's operations. DTE Energy is expected to close all coal fired power plants by 2032.

Total consumption

(9.2.2.1) Volume (megaliters/year)

77000

(9.2.2.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.2.3) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.2.4) Five-year forecast

Select from:

☑ About the same

(9.2.2.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.2.6) Please explain

This figure represents the evaporative loss, which is calculated for each facility using average monthly heat input, and regional and seasonal coefficients for evaporative loss; these values are then added and reported as total consumption for the company. The amount of consumption in 2023 was approximately 13% higher than in 2022. Major changes to total consumption are not anticipated in the near future; however, climate change may significantly affect evaporative loss on a longer timeline.
[Fixed row]

(9.2.3) In your oil & gas sector operations, what are the total volumes of water withdrawn, discharged, and consumed (by business division), how do they compare to the previous reporting year, and how are they forecasted to change?

Total withdrawals – downstream

(9.2.3.1) Volume (megaliters/year)

8000

(9.2.3.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.3.3) Primary reason for comparison with previous reporting year

Select from:

☑ Unknown

(9.2.3.4) Five-year forecast

Select from:

☑ About the same

(9.2.3.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.3.6) Please explain

The company does not track all types of water inputs and outputs for its gas distribution, transmission and storage operations. The waterwithdrawal at these types of facilities is significantly less than that of the steam electric power generating stations. DTE Energy does track the water usage at Taggart Compressor Station and various manholes. These facilities holds a NPDES or POTW Permit and therefore are included in this disclosure. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Total discharges – downstream

(9.2.3.1) Volume (megaliters/year)

7000

(9.2.3.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.3.3) Primary reason for comparison with previous reporting year

Select from:

☑ Unknown

(9.2.3.4) Five-year forecast

Select from:

☑ About the same

(9.2.3.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.3.6) Please explain

The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Total consumption – downstream

(9.2.3.1) Volume (megaliters/year)

200

(9.2.3.2) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.3.3) Primary reason for comparison with previous reporting year

Select from:

☑ Unknown

(9.2.3.4) Five-year forecast

Select from:

☑ About the same

(9.2.3.5) Primary reason for forecast

Select from:

☑ Increase/decrease in business activity

(9.2.3.6) Please explain

The only DTE Gas facility where water consumption is tracked is at the Taggart compressor station. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and
[Fixed row]

(9.2.4) Indicate whether water is withdrawn from areas with water stress, provide the volume, how it compares with the previous reporting year, and how it is forecasted to change.

(9.2.4.1) Withdrawals are from areas with water stress

Select from:

☑ No

(9.2.4.8) Identification tool

Select all that apply

☑ WRI Aqueduct

(9.2.4.9) Please explain

DTE used the Water Risk Atlas tool and location coordinates from the 15 facilities included in this report to assess the water stress. The model showed that 100% of the facilities were located in low water stress Based on the WRI Aqueduct future analysis and knowledge that DTE is moving away from coal-fired power generation, DTE expects that the water stress will remain unchanged.
[Fixed row]

(9.2.7) Provide total water withdrawal data by source.

Fresh surface water, including rainwater, water from wetlands, rivers, and lakes

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

2876000

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.7.5) Please explain

Sufficient amounts of good quality freshwater are relevant because they are used for non-contact cooling at our steam electric generating plants as currently designed. We could not supply electricity, an essential product for customers, without this resource. Water withdrawal is determined through a calculation involving river or lake intake, which is estimated from pump capacity and run time. For example, the Monroe Power Plant withdraws water from Lake Erie and Raisin River, the magnitude of which is not directly measured, but calculated through this method. The amount of fresh surface water withdrawal in 2023 was approximately 20% lower than in 2022. The values remained about the same because Trenton Channel Power Plant and St. Clair Power Plant did not run in 2023. DTE is in the process of retiring several coal-fired power plants, which is expected to result in less fresh surface water withdrawals in the company's operations.

Brackish surface water/Seawater

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Withdrawal from brackish surface water/seawater is not part of our operations, and we do not expect it to be part of our operations in the future

Groundwater – renewable

(9.2.7.1) Relevance

Select from:

☑ Relevant

(9.2.7.2) Volume (megaliters/year)

3000

(9.2.7.3) Comparison with previous reporting year

Select from:

☑ Much higher

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:

☑ Other, please specify **:**Project activity at generation facility.

(9.2.7.5) Please explain

The amount of groundwater withdrawn in 2023 was 50% higher in 2022 due to a construction project at our Fermi 2 Facility. Withdrawal from most of the groundwater is calculated from pump capacity and run time, the balance is calculated from a direct measurement of the hauling container.

Groundwater – non-renewable

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Withdrawal from groundwater - non-renewable sources is not part of our operations, and we do not expect it to be part of our operations in the future.

Produced/Entrained water

(9.2.7.1) Relevance

Select from:

☑ Not relevant

(9.2.7.5) Please explain

Withdrawal from produced/entrained water is not part of our operations, and we do not expect it to be part of our operations in the future.

Third party sources

(9.2.7.1) Relevance

Select from:
☑ Relevant

(9.2.7.2) Volume (megaliters/year)

1000

(9.2.7.3) Comparison with previous reporting year

Select from:
☑ About the same

(9.2.7.4) Primary reason for comparison with previous reporting year

Select from:
☑ Increase/decrease in business activity

(9.2.7.5) Please explain

Greenwood Energy Center and Renaissance, withdraw water from municipal sources, making it relevant to our operations. Withdrawal volumes are measured through water metering. The amount withdrawn in 2023 was approximately the same as in 2022.
[Fixed row]

(9.2.8) Provide total water discharge data by destination.

Fresh surface water

(9.2.8.1) Relevance

Select from:

☑ Relevant

(9.2.8.2) Volume (megaliters/year)

2806000

(9.2.8.3) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:

☑ Facility closure

(9.2.8.5) Please explain

Discharge by destination is calculated by subtracting the estimated fresh surface water consumption from the estimated water withdrawn. The amount of discharge in 2023 was approximately 20% lower than in 2022. Water withdrawals will decrease in the company's future due to diversifying DTE's power generation fleet.

Brackish surface water/seawater

(9.2.8.1) Relevance

Select from:

☑ Not relevant

(9.2.8.5) Please explain

Discharge to brackish surface water/seawater is not part of our operations. DTE does not project including this as part of our operations in the future.

Groundwater

(9.2.8.1) Relevance

Select from:

☑ Not relevant

(9.2.8.5) Please explain

Discharge to groundwater is not accounted for as part of our operations. DTE does not project including this as part of our operations in the future.

Third-party destinations

(9.2.8.1) Relevance

Select from:

☑ Relevant

(9.2.8.2) Volume (megaliters/year)

1000

(9.2.8.3) Comparison with previous reporting year

Select from:

☑ About the same

(9.2.8.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.8.5) Please explain

While many DTE facilities discharge to municipal/industrial wastewater treatment systems, only the wastewater accounted for in the facilities POTW permit that is sent to a municipal/industrial wastewater treatment system is included in this disclosure. The amount of discharge reported in 2023 is approximately the same amount as discharged in 2022. In the future, it is expected that municipal/industrial discharges will remain about the same as we continue to follow our company-wide water use reduction strategy. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and
[Fixed row]

(9.2.9) Within your direct operations, indicate the highest level(s) to which you treat your discharge.

Tertiary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:
☑ Not relevant

(9.2.9.6) Please explain

Tertiary treatment is not part of our operations.

Secondary treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:
☑ Not relevant

(9.2.9.6) Please explain

Secondary treatment is not part of our operations.

Primary treatment only

(9.2.9.1) Relevance of treatment level to discharge

Select from:
☑ Relevant

(9.2.9.2) Volume (megaliters/year)

2805000

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ About the same

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ 91-99

(9.2.9.6) Please explain

Of the total wastewater discharged from our 15 facilities included in this disclosure, the majority of the wastewater discharged is associated with our electric generating facilities, and is treated on site with various methods (e.g. sedimentation, chemical clarification, plain clarification, oil/water separation.). The amount of discharged water that underwent Primary Treatment in 2023 was 20% lower than in 2022. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Discharge to the natural environment without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

700

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ Much higher

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Other, please specify **:**Project activity at one of the facilities.

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ Less than 1%

(9.2.9.6) Please explain

At our Fermi 2 Power Plant we discharged groundwater, not process water, that was withdrawn as a result of project construction to surface water without treatment. The amount of water that was discharged without treatment in 2023 was 192% higher than in 2022. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Discharge to a third party without treatment

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

900

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ About the same

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ Less than 1%

(9.2.9.6) Please explain

These discharges are largely associated with the discharges from our facilities due to dewatering events, e.g electric and gas manholes, and/or process wastewater discharged via a POTW permit. This wastewater is treated by independent off-site municipal treatment plants or private treatment storage & disposal facilities (TSDF). These discharges are returned to surface waters in most cases, and are measured/monitored by the offsite facility. The amount of water that discharged to a third party without treatment in 2023 was 4% higher than in 2022. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and

Other

(9.2.9.1) Relevance of treatment level to discharge

Select from:

☑ Relevant

(9.2.9.2) Volume (megaliters/year)

300

(9.2.9.3) Comparison of treated volume with previous reporting year

Select from:

☑ About the same

(9.2.9.4) Primary reason for comparison with previous reporting year

Select from:

☑ Increase/decrease in business activity

(9.2.9.5) % of your sites/facilities/operations this volume applies to

Select from:

☑ Less than 1%

(9.2.9.6) Please explain

Of the 15 facilities included in this disclosure, only four are associated with our electric generating facilities and chlorinated, dechlorinated, and undergo pH control. The amount of water that underwent Other Treatment in 2023 was 4% lower than in 2022. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25-50% change "Lower"/"Higher", and
[Fixed row]

(9.3) In your direct operations and upstream value chain, what is the number of facilities where you have identified substantive water-related dependencies, impacts, risks, and opportunities?

Direct operations

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ Yes, we have assessed this value chain stage and identified facilities with water-related dependencies, impacts, risks, and opportunities

(9.3.2) Total number of facilities identified

8

(9.3.3) % of facilities in direct operations that this represents

Select from:

☑ 51-75

(9.3.4) Please explain

DTE considers the following a facility: All DTE owned/partially owned sites that hold NPDES, POTW, and/or GLWA permits (the 15 sites included in this disclosure). A facility exposed to water risk is defined as one that observed a water discharge over 100,000 gallons of water per day (GPD), has a permit to discharge wastewater to surface water or municipality. There are five electric generating stations, one hydroelectric pumping station, one natural gas compressor station, and one coke battery facility that withdraw fresh water within the St. Lawrence watershed and are exposed to physical water risks. All 8 of these facilities are located in an area that has an overal low water risk rating according to the WRI Aqueduct tool. The water risk related to physical quantity for DTE Energy is lower despite periodic drought conditions, because DTE Energy draws water from the great lakes for nine out of the ten higher risk facilities. The Great Lakes water level has not dropped significantly below the long term annual average for the past 50 years per the US Army Corps of Engineers water level data.

Upstream value chain

(9.3.1) Identification of facilities in the value chain stage

Select from:

☑ No, we have not assessed this value chain stage for facilities with water-related dependencies, impacts, risks, and opportunities, and are not planning to do so in the next 2 years

[Fixed row]

(9.3.1) For each facility referenced in 9.3, provide coordinates, water accounting data, and a comparison with the previous reporting year.

Row 1

(9.3.1.1) Facility reference number

Select from:

☑ Facility 1

(9.3.1.2) Facility name (optional)

Belle River Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

United States of America

☑ St. Lawrence

(9.3.1.8) Latitude

42.773888

(9.3.1.9) Longitude

-82.495833

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Coal - hard

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

693000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

693000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

693000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

693000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

6000

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

The withdrawal and discharge volumes were about the same in 2023 compared to 2022. The consumptive use of water was about the same in 2023 compared to 2022. The thresholds for comparison to previous years are as follows: 50% change "Much Lower"/"Much Higher", 25%-50% change "Lower"/"Higher", and

Row 3

(9.3.1.1) Facility reference number

Select from:

☑ Facility 14

(9.3.1.2) Facility name (optional)

Warren Service Center

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, discharges only

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.34496

(9.3.1.9) Longitude

-83.12879

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.21) Total water discharges at this facility (megaliters)

10

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ Higher

(9.3.1.23) Discharges to fresh surface water

0

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

10

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

Warren Service Center collects and discharges stormwater from containment areas in accordance with the water quality conditions of the POTW permit for this facility. DTE Energy expects that this value will remain low and change based on precipitation conditions for the reporting year.

Row 5

(9.3.1.1) Facility reference number

Select from:

☑ Facility 7

(9.3.1.2) Facility name (optional)

Sibley Quarry Landfill

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.146387

(9.3.1.9) Longitude

-83.169955

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

2000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

2000

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

2000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

2000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

Sibley Quarry is a Coal Combustion Residual (CCR) Landfill that once was a stone quarry. This facility must treat and dewater ground water to maintain operations. Withdrawal and discharge remained about the same in 2023 compared to 2022. DTE expects that the flows will remain about the same into the future.

Row 6

(9.3.1.1) Facility reference number

Select from:

☑ Facility 4

(9.3.1.2) Facility name (optional)

Monroe Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

41.875

(9.3.1.9) Longitude

-83.346

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Coal - hard

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

2085000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

2085000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

2050000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

2050000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

36000

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

Withdrawal, discharge, and consumptive water use have remained about the same in 2023 compared to 2022. Withdrawals, consumption, and discharge are not expected to change significantly until 2 units are retired in 2028. Water withdrawal is expected to approach zero after the final two units are retired in 2032.

Row 8

(9.3.1.1) Facility reference number

Select from:

☑ Facility 22

(9.3.1.2) Facility name (optional)

Renaissance

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

43.18659

(9.3.1.9) Longitude

-83.84292

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Gas

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

4

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ Much higher

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

4

(9.3.1.21) Total water discharges at this facility (megaliters)

4

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ Much higher

(9.3.1.23) Discharges to fresh surface water

4

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:
☑ About the same

(9.3.1.29) Please explain

Renaissance is a peaking facility. There is no consumption for the water used to aid in generation.

Row 9

(9.3.1.1) Facility reference number

Select from:
☑ Facility 10

(9.3.1.2) Facility name (optional)

Blue Water Energy Center

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.77485

(9.3.1.9) Longitude

-82.47904

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Gas

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

10000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

10000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

900

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ Much higher

(9.3.1.23) Discharges to fresh surface water

900

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

7000

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

Blue Water Energy Center is a natural gas combined cycle power plant that began operation in 2022. The withdrawal and consumptive volume was about the same in 2023 as it was in 2022. The discharge volume was much higher in 2023 than in 2022 due to a full year operation. DTE Energy expects that the water withdrawal, consumption, and discharge will remain about the same for future years.

Row 10

(9.3.1.1) Facility reference number

Select from:

☑ Facility 6

(9.3.1.2) Facility name (optional)

St. Clair Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.762777

(9.3.1.9) Longitude

-82.472222

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Coal - hard

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

6000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ Much lower

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

6000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

6000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:
☑ Much lower

(9.3.1.23) Discharges to fresh surface water

6000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ Much lower

(9.3.1.29) Please explain

Withdrawal and discharge volumes decreased in 2023 compared to 2022. St. Clair Power Plant did not operate in 2023, therefore, there was no consumption of water that occurred. The St. Clair Power Plant remaining flow is from storm water and wastewater treatment systems that need to stay in place until the decommission of this facility is completed. DTE expects that the flows will remain about the same until the decommissioning is completed.

Row 11

(9.3.1.1) Facility reference number

Select from:

☑ Facility 11

(9.3.1.2) Facility name (optional)

Greenwood Energy Center

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

43.108268

(9.3.1.9) Longitude

-82.684135

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Gas

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

1000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ Higher

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

20

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

1000

(9.3.1.21) Total water discharges at this facility (megaliters)

300

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ Much higher

(9.3.1.23) Discharges to fresh surface water

300

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

2000

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ Much higher

(9.3.1.29) Please explain

The Greenwood Energy Center (GWEC) generates electric power utilizing an oil and gas fired boiler, steam driven turbine, and generators. In 2023, GWEC performed a discharge of the system that allowed but not required annually. DTE Energy expects that the water withdrawal, consumption, and discharge will remain the same for future years

Row 12

(9.3.1.1) Facility reference number

Select from:

☑ Facility 5

(9.3.1.2) Facility name (optional)

River Rouge Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.2731

(9.3.1.9) Longitude

-83.1106

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Coal - hard

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

80

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ Much lower

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

80

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

80

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:
☑ Much lower

(9.3.1.23) Discharges to fresh surface water

80

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

Withdrawal and discharge volumes decreased in 2023 compared to 2022. River Rouge did not operate in 2023, therefore, there was no consumption of water that occurred. The River Rouge Power Plant remaining flow is from storm water and wastewater treatment systems that need to stay in place until the decommission of this facility is completed. DTE expects that the flows will remain about the same until the decommissioning is completed.

Row 14

(9.3.1.1) Facility reference number

Select from:

☑ Facility 13

(9.3.1.2) Facility name (optional)

Ludington Pump Storage

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

43.8921

(9.3.1.9) Longitude

-86.4447

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Hydropower

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

300

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

300

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

300

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

300

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

DTE Energy owns 49% of Ludington Pump Storage Station. The water withdrawal and discharge information is adjusted to describe only the portion that DTE Energy owns.

Row 16

(9.3.1.1) Facility reference number

Select from:

☑ Facility 12

(9.3.1.2) Facility name (optional)

Various DTE Electric Manholes

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

30

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

0

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

30

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

30

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

0

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

30

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:
☑ About the same

(9.3.1.29) Please explain

DTE must dewater electric manholes prior to completing work on underground conduit systems. DTE expects that this was use will remain low in the future.

Row 17

(9.3.1.1) Facility reference number

Select from:

☑ Facility 8

(9.3.1.2) Facility name (optional)

Taggart Compressor Station

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

43.438931

(9.3.1.9) Longitude

-85.137422

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Midstream

(9.3.1.13) Total water withdrawals at this facility (megaliters)

8000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

8000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

7000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ About the same

(9.3.1.23) Discharges to fresh surface water

7000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

200

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ About the same

(9.3.1.29) Please explain

W.C. Taggart Compressor Station provides natural gas to the market areas in Detroit, Mt. Pleasant, Carson City, Greenville, Lakeview, Vine, Muskegon, Ludington, and Belding. It is expected that the water use will remain the same in the future.

Row 19

(9.3.1.1) Facility reference number

Select from:

☑ Facility 3

(9.3.1.2) Facility name (optional)

Fermi 2 Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

41.96485

(9.3.1.9) Longitude

-83.25448

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Nuclear

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

73000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ Higher

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

72000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

700

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

47000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:
☑ Higher

(9.3.1.23) Discharges to fresh surface water

47000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

10

(9.3.1.27) Total water consumption at this facility (megaliters)

26000

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:
☑ Higher

(9.3.1.29) Please explain

Water withdrawal, discharge and consumption were all higher in 2023 compared to 2022. Discharge was 25% lower in 2022 than in 2021. The Fermi 2 Power Plant is expected to remain at current levels in its water use in the future.

Row 20

(9.3.1.1) Facility reference number

Select from:
☑ Facility 9

(9.3.1.2) Facility name (optional)

Trenton Channel Power Plant

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.12083

(9.3.1.9) Longitude

-83.1806

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Coal - hard

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

200

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:
☑ Much lower

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

10

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

200

(9.3.1.21) Total water discharges at this facility (megaliters)

200

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:

☑ Much lower

(9.3.1.23) Discharges to fresh surface water

10

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

200

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:

☑ Much lower

(9.3.1.29) Please explain

Withdrawal and discharge volumes decreased in 2023 compared to 2022. Trenton Channel Power Plant did not operate in 2023, therefore, there was no consumption of water that occurred. The Trenton Channel Power Plant remaining flow is from storm water and wastewater treatment systems that need to stay in place until the decommission of this facility is completed. DTE expects that the flows will remain about the same until the decommissioning is completed.

Row 21

(9.3.1.1) Facility reference number

Select from:

☑ Facility 15

(9.3.1.2) Facility name (optional)

Various Gas Manholes

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ No

(9.3.1.6) Reason for no withdrawals and/or discharges

The withdrawal and discharge from these locations was below 0.1 megaliters in 2023.

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Midstream

(9.3.1.29) Please explain

DTE must dewater gas manholes prior to completing work on underground gas pipelines. DTE expects that this use will remain low in the future.

Row 22

(9.3.1.1) Facility reference number

Select from:

☑ Facility 21

(9.3.1.2) Facility name (optional)

EES Coke

(9.3.1.3) Value chain stage

Select from:

☑ Direct operations

(9.3.1.5) Withdrawals or discharges in the reporting year

Select from:

☑ Yes, withdrawals and discharges

(9.3.1.7) Country/Area & River basin

Canada

☑ St. Lawrence

(9.3.1.8) Latitude

42.28254

(9.3.1.9) Longitude

-83.11132

(9.3.1.10) Located in area with water stress

Select from:

☑ No

(9.3.1.11) Primary power generation source for your electricity generation at this facility

Select from:

☑ Not applicable

(9.3.1.12) Oil & gas sector business division

Select all that apply

☑ Not applicable

(9.3.1.13) Total water withdrawals at this facility (megaliters)

1000

(9.3.1.14) Comparison of total withdrawals with previous reporting year

Select from:

☑ About the same

(9.3.1.15) Withdrawals from fresh surface water, including rainwater, water from wetlands, rivers and lakes

1000

(9.3.1.16) Withdrawals from brackish surface water/seawater

0

(9.3.1.17) Withdrawals from groundwater - renewable

0

(9.3.1.18) Withdrawals from groundwater - non-renewable

0

(9.3.1.19) Withdrawals from produced/entrained water

0

(9.3.1.20) Withdrawals from third party sources

0

(9.3.1.21) Total water discharges at this facility (megaliters)

1000

(9.3.1.22) Comparison of total discharges with previous reporting year

Select from:
☑ About the same

(9.3.1.23) Discharges to fresh surface water

1000

(9.3.1.24) Discharges to brackish surface water/seawater

0

(9.3.1.25) Discharges to groundwater

0

(9.3.1.26) Discharges to third party destinations

0

(9.3.1.27) Total water consumption at this facility (megaliters)

0

(9.3.1.28) Comparison of total consumption with previous reporting year

Select from:
☑ About the same

(9.3.1.29) Please explain

EES Coke is owned by DTE Vantage. DTE Energy expects that this value will remain about the same in the future.
[Add row]

(9.3.2) For the facilities in your direct operations referenced in 9.3.1, what proportion of water accounting data has been third party verified?

Water withdrawals – total volumes

(9.3.2.1) % verified

Select from:

☑ Not verified

(9.3.2.3) Please explain

Water withdrawals at our DTE electric power plants, excluding Greenwood Energy Center, and Taggart Compressor station are reported to Michigan Environment, Great Lakes, and Energy Department (EGLE) annually through water use reports to comply with the state Water use Program. The withdrawals are not verified by an external party but are subject to state inspection.

Water withdrawals – volume by source

(9.3.2.1) % verified

Select from:

☑ Not verified

(9.3.2.3) Please explain

Water withdrawals at our DTE electric power plants, excluding Greenwood Energy Center, and Taggart Compressor station are reported to Michigan Environment, Great Lakes, and Energy Department (EGLE) annually through water use reports to comply with the state Water use Program. The withdrawals are not verified by an external party but are subject to state inspection.

Water withdrawals – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

☑ Not verified

Water discharges – total volumes

(9.3.2.1) % verified

Select from:

☑ Not verified

(9.3.2.3) Please explain

Water discharges for all facilities are reported to Michigan Environment, Great Lakes, and Energy Department (EGLE) and/or local permitting authority as specified in the NPDES or POTW permit. The discharges are not verified by an external party but are subject to state inspection

Water discharges – volume by destination

(9.3.2.1) % verified

Select from:

☑ Not verified

(9.3.2.3) Please explain

Water discharges at our DTE electric power plants, excluding Greenwood Energy Center, and Taggart Compressor station are reported to Michigan Environment, Great Lakes, and Energy Department (EGLE) annually through water use reports to comply with the state Water use Program. The discharges are not verified by an external party but are subject to state inspection.

Water discharges – volume by final treatment level

(9.3.2.1) % verified

Select from:

☑ Not verified

Water discharges – quality by standard water quality parameters

(9.3.2.1) % verified

Select from:

☑ Not verified

(9.3.2.3) Please explain

Although none of the data is verified by a third party, the analytical method execution is verified through the Discharge Monitoring Quality Assurance (DMRQA) studies conducted by third parties as required by the NPDES permits.

Water consumption – total volume

(9.3.2.1) % verified

Select from:
☑ Not verified
[Fixed row]

(9.5) Provide a figure for your organization's total water withdrawal efficiency.

(9.5.1) Revenue (currency)

12745000000

(9.5.2) Total water withdrawal efficiency

4425.35

(9.5.3) Anticipated forward trend

The total water withdrawal efficiency is expected to increase as we retire coal-fired power plants, thus reducing the total water withdrawal volume, and continue to rely on a more environmentally sustainable generation portfolio.
[Fixed row]

(9.7.1) Provide the following intensity information associated with your electricity generation activities.

Row 1

(9.7.1.1) Water intensity value (m3/denominator)

69

(9.7.1.2) Numerator: water aspect

Select from:

☑ Freshwater withdrawals

(9.7.1.3) Denominator

Select from:

☑ MWh

(9.7.1.4) Comparison with previous reporting year

Select from:

☑ About the same

(9.7.1.5) Please explain

Water intensity is calculated using the total water withdrawn from surface water sources for power generating facilities (m3), and total electric energy produced from these facilities based on nameplate capacity and run time (MWh). Water intensity decreased 22% in 2023 compared to the previous year. Water intensity is expected to decrease with DTE's strategy of retiring coal-fired power plants and replacing them with less water-intensive generation units. This intensity metric is used internally to determine the efficiency of electric generation facilities in terms of water.
[Add row]

(9.13) Do any of your products contain substances classified as hazardous by a regulatory authority?

	Products contain hazardous substances
	Select from: ☑ No

[Fixed row]

(9.15.1) Indicate whether you have targets relating to water pollution, water withdrawals, WASH, or other water-related categories.

	Target set in this category	Please explain
Water pollution	*Select from:* ☑ No, and we do not plan to within the next two years	*DTE intends to comply will all water permit conditions but does not have additional water pollution targets at this time.*
Water withdrawals	*Select from:* ☑ Yes	*Rich text input [must be under 1000 characters]*
Water, Sanitation, and Hygiene (WASH) services	*Select from:* ☑ No, and we do not plan to within the next two years	*Rich text input [must be under 1000 characters]*

[Fixed row]

(9.15.2) Provide details of your water-related targets and the progress made.

Row 1

(9.15.2.1) Target reference number

Select from:

☑ Target 1

(9.15.2.2) Target coverage

Select from:

☑ Business division

(9.15.2.3) Category of target & Quantitative metric

Water withdrawals

☑ Reduction in total water withdrawals

(9.15.2.4) Date target was set

06/01/2017

(9.15.2.5) End date of base year

12/31/2005

(9.15.2.6) Base year figure

5452000

(9.15.2.7) End date of target year

12/31/2040

(9.15.2.8) Target year figure

545000

(9.15.2.9) Reporting year figure

2871000

(9.15.2.10) Target status in reporting year

Select from:

☑ Underway

(9.15.2.11) % of target achieved relative to base year

53

(9.15.2.12) Global environmental treaties/initiatives/ frameworks aligned with or supported by this target

Select all that apply

☑ None, alignment not assessed

(9.15.2.13) Explain target coverage and identify any exclusions

Since 2005, DTE has reduced surface water withdrawals within DTE Electric Company by retiring coal-fired power plants (e.g. Conners Creek,Harbor Beach, River Rouge, St. Clair, and Trenton Channel Power Plants) that utilize water for cooling,

(9.15.2.14) Plan for achieving target, and progress made to the end of the reporting year

DTE projects that surface water withdrawals in DTE Electric Company will continue to decrease in the future, as more water efficient systems are installed and additional coal-fired power plants are retired. These water goals are aligned with the company's goals to reduce carbon emissions from electric generating facilities from a 2005 baseline. These numbers represent current projections and are subject to change in the future.
[Add row]

C13. Further information & sign off

(13.1) Indicate if any environmental information included in your CDP response (not already reported in 7.9.1/2/3, 8.9.1/2/3/4, and 9.3.2) is verified and/or assured by a third party?

	Other environmental information included in your CDP response is verified and/or assured by a third party	Primary reason why other environmental information included in your CDP response is not verified and/or assured by a third party	Explain why other environmental information included in your CDP response is not verified and/or assured by a third party
	Select from: ☑ No, but we plan to obtain third-party verification/assurance of other environmental information in our CDP response within the next two years	*Select from:* ☑ Other, please specify **:**Not required currently	*See primary reason*

[Fixed row]

(13.3) Provide the following information for the person that has signed off (approved) your CDP response.

(13.3.1) Job title

Shawn P. Patterson, Vice President Environmental Management & Safety

(13.3.2) Corresponding job category

Select from:

☑ Other, please specify

[Fixed row]