Welcome to your CDP Climate Change Questionnaire 2020

C0. Introduction

C0.1

(C0.1) Give a general description and introduction to your organization.

Eversource Energy (NYSE: ES) operates New England's largest energy delivery system. Eversource is committed to safety, reliability, environmental leadership and stewardship for its 4 million electric, natural gas and water customers in Connecticut, Massachusetts and New Hampshire. Sustainability is an integral part of Eversource's operations and strategy. Eversource is a public utility holding company. Its utility subsidiaries are The Connecticut Light and Power Company (CL&P), NSTAR Electric Company (NSTAR Electric), Public Service Company of New Hampshire (PSNH), NSTAR Gas Company (NSTAR Gas), Yankee Gas Company (Yankee Gas) and Aquarion Water Company (Aquarion). Eversource is engaged primarily in the energy and water delivery business. The Company's electric utilities are primarily involved in the transmission and distribution of electricity and serve industrial, commercial and residential customers. Our natural gas subsidiaries also serve industrial, commercial and residential customers. Aquarion Water serves residential, commercial, industrial and fire protection customers.

With climate change as one of the greatest challenges facing the globe, we know timely action and innovative solutions are vitally important. We also know Eversource is in a unique position to meet the essential energy needs of our customers while serving as a catalyst for clean energy that will enable us to realize a low-carbon future. In doing so, we will help curb our region's emissions from the electricity, space heating and transportation sectors, serving a critical role in achieving ambitious emission reduction targets in the states where we operate.

We believe it is important to lead by example and our goal to achieve carbon neutrality by 2030 is one key way we are demonstrating this industry leadership. We share the concerns held by many of our stakeholders regarding climate change and we are committed to do our part to respond with appropriate solutions. The many actions we are taking are outlined throughout our Eversource Sustainability Report, which is attached and available online at https://www.eversource.com/content/docs/default-source/community/sustainability-report-full-2019.pdf?sfvrsn=749d162_10.

Safe Harbor Statement: References and forward-looking statements in this CDP Climate Change Questionnaire including discussions of risks and opportunities are based on our best assessments and expectations related to Eversource's current and future performance related to climate-change. The responses to questions in this filing should not be given undue reliance

pursuant to the terms described in Eversource's Safe Harbor Statement Under the Private Securities Litigation Reform Act of 1995 provided in our 2019 Annual Report on Form 10-K.

C0.2

(C0.2) State the start and end date of the year for which you are reporting data.

	Start date	End date	Indicate if you are providing emissions data for past reporting years
Reporting year	January 1, 2019	December 31, 2019	No

C0.3

(C0.3) Select the countries/areas for which you will be supplying data.

United States of America

C0.4

(C0.4) Select the currency used for all financial information disclosed throughout your response.

USD

C0.5

(C0.5) Select the option that describes the reporting boundary for which climate-related impacts on your business are being reported. Note that this option should align with your chosen approach for consolidating your GHG inventory.

Operational control

C-EU0.7

(C-EU0.7) Which part of the electric utilities value chain does your organization operate in? Select all that apply.

Row 1

Electric utilities value chain

Electricity generation
Transmission
Distribution

Other divisions

Gas storage, transmission and distribution
Battery storage

C1. Governance

C1.1

(C1.1) Is there board-level oversight of climate-related issues within your organization?

Yes

C1.1a

(C1.1a) Identify the position(s) (do not include any names) of the individual(s) on the board with responsibility for climate-related issues.

Position of individual(s)	Please explain
Board Chair	Eversource's Chairman, President and Chief Executive Officer has overall responsibility for managing the company's business strategy including those related to climate change. He was responsible for making the decision to introduce a carbon neutrality goal in 2019 with a 2030 target with the support of Company's management team. He also leads our Board of Trustees, which both as a whole and through its Committees is responsible for the oversight of the Company's risk management processes and programs, along with comprehensive operating and strategic planning and climate-related initiatives such as the Company's new carbon neutrality goal. This initiative will entail GHG emission reductions for our region through clean energy and electric vehicle infrastructure investments, implementation of customer energy efficiency programs, reliability performance metrics and pursuit of innovative technologies to reduce and mitigate the impact of climate change.
Board-level committee	The Eversource Board of Trustees Finance Committee is responsible for oversight of Eversource's Enterprise Risk Management Program, which includes comprehensive practices to assess, monitor and mitigate risk exposures, including those related to climate change, as outlined in our Proxy Statement.
Chief Operating Officer (COO)	Officers reporting to the Executive Vice President and Chief Operating Officer have responsibility for the reliability and resiliency of our electric and natural gas operations, North American Electric Reliability Corporation (NERC) compliance, and Class 2 leaks outstanding.

C1.1b

(C1.1b) Provide further details on the board's oversight of climate-related issues.

Frequency with which climate-related issues are	Governance mechanisms into which climate-related issues are integrated	Please explain

a scheduled agenda item		
Scheduled – some meetings	Reviewing and guiding strategy Reviewing and guiding major plans of action Reviewing and guiding risk management policies Reviewing and guiding annual budgets Reviewing and guiding business plans Setting performance objectives Monitoring implementation and performance of objectives Overseeing major capital expenditures, acquisitions and divestitures Monitoring and overseeing progress against goals and targets for addressing climate-related issues	Our Board of Trustees oversees our commitment to provide safe and reliable electric, natural gas and water services to our customers. On pp. 13-17 of our 2019 Annual Report (see C12.4), we identify climate change related risk factors, including impacts from severe weather and water availability and quality. Our Board oversees assessment of long-term climate change risks and opportunities and strategic initiatives to bring clean energy to the region, lower our emissions, strengthen our infrastructure and enable emerging technologies. Board oversight of performance metrics includes reliability and restoration performance, gas emergency response, safety and energy efficiency targets and an ESG performance metric. Per p. 20 of our 2020 Proxy Statement (see C12.4), our Board held 9 meetings in 2019, and with Committees held a total of 27 meetings. Our Board and its committees oversee risk management processes and programs. All Board Committee Chairs report to the Board following Committee meetings to discuss risk-related issues, assess their implications and provide oversight on appropriate actions. The Board oversees comprehensive operating and strategic planning, including long-term objectives, specific strategies to achieve goals, and plans to implement each strategy. The operating plan, consisting of goals and objectives for the year, key performance indicators and financial forecasts, was reviewed and approved by the Board in Feb. 2019. Our Enterprise Risk Management program is overseen by the Board's Finance Committee. Management identifies and analyses known and emerging risks, including those related to climate change, to determine materiality, likelihood and impact, and develops mitigation strategies. The findings are discussed with the Finance Committee and full Board, including reporting on an individual risk-by-risk basis on how issues are being measured and managed. At the Board's 9 meetings in 2019, it reviewed and discussed performance reports, Company plans and prospects, and any immediate issues. Examples of

		strategic initiatives related to climate change include: • Our partnership with Ørsted on offshore wind projects. • Construction of 22 solar generation facilities totalling 70 MW of capacity in MA, estimated to save nearly 36,000 MT of carbon per year. •$3B invested in our core businesses in 2019, with the majority invested in our electric distribution and transmission systems. These investments helped reduce customer service interruptions to about once every 1.8 years on average, excluding major storms. We are increasing the rate of gas pipeline replacements, improving system safety and environmental performance. • Grid modernization and engineering advances, including EV infrastructure and energy storage. • Goal to be carbon neutral in our operations by 2030. • Electric and natural gas system improvements to help customers manage their energy use. •Annual presentation on sustainability efforts.

C1.2

(C1.2) Provide the highest management-level position(s) or committee(s) with responsibility for climate-related issues.

Name of the position(s) and/or committee(s)	Responsibility	Frequency of reporting to the board on climate-related issues
Chief Financial Officer (CFO)	Both assessing and managing climate-related risks and opportunities	More frequently than quarterly
Other, please specify Executive Vice President – Strategy, Customer and Corporate Relations	Both assessing and managing climate-related risks and opportunities	As important matters arise

C1.2a

(C1.2a) Describe where in the organizational structure this/these position(s) and/or committees lie, what their associated responsibilities are, and how climate-related issues are monitored (do not include the names of individuals).

Our CFO serves as Chair of our Risk Committee, which oversees our Enterprise Risk Management (ERM) program. In this capacity, he reports to the Finance Committee on climate related risks and opportunities. Our ERM program involves the application of a well-defined

enterprise-wide methodology designed to allow our executives to identify, prioritize, categorize, and mitigate the principal risks to the Company. It is integrated with other assurance functions throughout the Company to ensure appropriate coverage of risks that could impact the Company. In addition to known risks, the program identifies emerging risks, through participation in industry groups, discussions with management, and in consultation with outside advisers. Our management then analyzes the risks to determine materiality, likelihood and develops mitigation strategies. Management broadly considers our business model, the utility industry, the global economy and the current environment to identify risks. The findings of this process are discussed with the Finance Committee, which provides a detailed report of all of its meetings with the full Board, including reporting on an individual risk-by-risk basis on how these issues are being measured and managed.

Eversource's Executive Vice President, Strategy, Customer & Corporate Relations reports directly to our Board Chairman and CEO. He oversees the Senior Vice President of Communications, External Affairs & Sustainability, the Vice President of Business Development, the Vice President of Energy Strategy & Policy, and the Vice President of Government Affairs. The work of this group is reported to our Board on a regular basis and includes matters related to climate change including regulatory developments, environmental compliance, strategy development and implementation of projects that lower emissions and increase the reliability and resiliency of our system, as well as business opportunities that meet the expectations of our customers, shareholders and other stakeholders. Examples of current initiatives include our goal to be carbon neutral in our operations by 2030, offshore wind projects, electric vehicle infrastructure expansion and energy storage projects.

C1.3

(C1.3) Do you provide incentives for the management of climate-related issues, including the attainment of targets?

	Provide incentives for the management of climate-related issues	Comment
Row 1	Yes	

C1.3a

(C1.3a) Provide further details on the incentives provided for the management of climate-related issues (do not include the names of individuals).

Entitled to incentive	Type of incentive	Activity inventivized	Comment
Corporate executive team	Monetary reward	Energy reduction project	In 2019, we set a financial performance goal to advance strategic growth initiatives, which will help to lower regional emissions and improve system reliability. Our Board determined this goal to have attained a 200% performance for the 2019 annual incentive program for named Executive Officers. Elements that contributed to the success of this goal included:

			• Expanded our offshore wind energy partnership with Orsted, the global leader in offshore wind development, through the acquisition of the Northeast US assets of Deepwater Wind. Our partnership bid into the New York clean energy RFP and was awarded a contract for 880 MW of offshore wind power with the Sunrise Wind project. • Advanced the New London State Pier agreement to support offshore wind construction. • Accelerated the original five-year electric vehicle charging program in MA to three years, and the program met its 2019 targets. • Commenced the construction process on two energy storage projects in MA.
Corporate executive team	Monetary reward	Emissions reduction project	In 2019 we set an operational performance goal to advance clean energy. In addition to significant progress in offshore wind, our electric vehicle charging program met its 2019 goal, condensing our original 5-year implementation in MA to 3 years and advancing two energy storage projects. Eversource also maintained it energy efficiency status as the leading energy efficiency provide in the nation per the American Council for Energy Efficient Economy. The Board determined this goal to have attained a 200% performance result.
Corporate executive team	Monetary reward	Company performance against a climate-related sustainability index	In 2019, Eversource established a new operational performance goal to be in the 75th percentile of a peer group of comparable U.S. utilities whose ESG performance is assessed by two leading sustainability rating firms, which includes assessments related to GHG emissions and climate change actions. Eversource's average score ranked in the top decile of the peer group. Our Board determined this goal to have attained a 200% result.

C2. Risks and opportunities

C2.1

(C2.1) Does your organization have a process for identifying, assessing, and responding to climate-related risks and opportunities?

Yes

C2.1a

(C2.1a) How does your organization define short-, medium- and long-term time horizons?

	From (years)	To (years)	Comment
Short-term	0	3	The Board of Trustees oversees the Company's comprehensive operating and strategic planning including matters related to climate-change. The operating plan takes into account risks and opportunities and is reviewed and formally approved by the Board in February of each year following review by the Finance Committee. The plan consists of goals and objectives for the year, key performance indicators, and financial forecasts.
Medium-term	3	10	The Board of Trustees oversees the Company's comprehensive operating and strategic planning, which consists of medium--term corporate objectives, specific strategies to achieve those goals, and plans designed to implement each strategy.
Long-term	10	20	The Board of Trustees oversees the Company's comprehensive operating and strategic planning, which consists of long-term corporate objectives, specific strategies to achieve those goals, and plans designed to implement each strategy.

C2.1b

(C2.1b) How does your organization define substantive financial or strategic impact on your business?

Eversource's Board of Trustees oversees the Company's comprehensive operating and strategic planning. The operating plan, which is reviewed and formally approved by the Board in February following review by the Finance Committee, consists of the goals and objectives for the year, key performance indicators, and financial forecasts. The strategic planning process consists of long-term corporate objectives, specific strategies to achieve those goals, and plans designed to implement each strategy. Substantive financial and strategic impacts are those considered material to the Company including the ability to conduct normal operations, serve customers and deliver value to shareholders. The Enterprise Risk Management (ERM) program is integrated with the annual operating and strategic planning processes to identify the key financial risks associated with the plan These financial risks are presented to the Board of Trustees as part of both of the annual operating plan and the Board's annual strategic planning session.

The Finance Committee is responsible for oversight of the Company's ERM program and enterprise-wide risks, as well as specific risks associated with insurance, credit, financing and pension investments. Our ERM program involves the application of a well-defined, enterprise-wide methodology designed to allow our executives to quantify, identify, categorize, prioritize, and mitigate the principal risks to the Company. The ERM program is integrated with other

assurance functions throughout the Company, including compliance, auditing, and insurance to ensure appropriate coverage of risks that could have substantive financial or strategic impact to the Company. The top enterprise-wide risks are identified using a comprehensive cross functional analysis working with key officers and employees of each organization within the Company and are monitored throughout the year by the Company's Risk Committee.

In addition to known risks, the program identifies emerging risks through participation in industry groups, discussions with management, and in consultation with outside advisers. Our management then analyzes the risks to determine materiality, likelihood and impact, and develops mitigation strategies. Management broadly considers our business model, the utility industry, the global economy, climate change and the current environment to identify risks.

Risks identified during the ERM process have formal, actionable, measurable mitigation plans, are monitored on a regular basis, and are reported to the Risk Committee and Executive management quarterly and semi-annually, respectively. In addition to the regularly scheduled reports by ERM of all of the company's enterprise-wide risks and the results of the ERM program, management reports periodically to both the Audit and Finance Committees in depth on specific top enterprise risks at the Company, including reporting on how these issues are being measured and managed. ERM also reports regularly to the Finance Committee on the activities of the Company's Risk Committee, which consists of senior officers and is responsible for ensuring that the Company is managing its principal enterprise-wide risks, as well as other key risk areas such as operations, environmental, information technology, compliance and business continuity.

C2.2

(C2.2) Describe your process(es) for identifying, assessing and responding to climate-related risks and opportunities.

Value chain stage(s) covered

Direct operations

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Eversource continually assesses risks to our system as a result of climate change. Physical risks from climate change may include an increase in sea levels and changes

in weather conditions, such as changes in precipitation and extreme weather events. We have developed a robust resiliency plan to improve our system's ability to withstand severe weather patterns. The plan includes installing new and stronger infrastructure like poles, wires and related system equipment, as well as enhanced year-round tree trimming. We are reinforcing existing critical facilities to withstand storm surges, and all future substations are being “flood-hardened” to better protect our system against storm surges associated with the increasing risk of severe weather. One example of a system investment is the Seafood Way Substation on the South Boston waterfront. Eversource constructed the substation to meet the growing demand for power on the waterfront, and to support energy needs in the Greater Boston region. The substation is built on a platform 15 feet above street level on pilings that are sunk some 80 feet below ground in order to withstand storms and tidal surges.

Value chain stage(s) covered

Direct operations

Risk management process

A specific climate-related risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term

Description of process

Eversource continually assesses risks to our system as a result of climate change and regularly partners with leading research institutions and other stakeholders to assess and respond to climate-related risks and opportunities. Physical risks from climate change may include an increase in sea levels and changes in weather conditions, such as changes in precipitation and extreme weather events.

Our partnership with the Eversource Energy Center at the University of Connecticut has resulted in tools to help us continually assess risks and create mitigation plans due to extreme weather events:

The Outage Prediction Model uses geographical data, data on attributes of the electrical system and especially, numerical weather prediction information to predict the impact of storms many days before they happen.

The goal of the flood vulnerability project is to develop a real-time early warning system that integrates existing meteorological, hydrological, and hydraulic models to estimate potential flood damage and risk posed by incoming storms to Eversource substations in Connecticut and Massachusetts.

Value chain stage(s) covered

Direct operations

Risk management process

A specific climate-related risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Medium-term

Long-term

Description of process

Eversource continually assesses risks to our system as a result of climate change and regularly partners with leading research institutions and other stakeholders to assess and respond to climate-related risks and opportunities. Physical risks from climate change may include an increase in sea levels and changes in weather conditions, such as changes in precipitation and extreme weather events. Our partnership with the Eversource Energy Center at the University of Connecticut has resulted in tools to help us continually assess risks and create mitigation plans due to extreme weather events:
• Stormwise is an innovative and multifaceted forest management and public education initiative that aims to reduce the risk of power outages and other damage caused by wind-related tree failure, especially along wooded roadsides and electricity distribution lines. Stormwise provides management strategies to create storm-resistant roadside woodlands that maintain the functions and beauty of forest ecosystems, while reducing or at least shortening, tree-related outages and extending intervals between trimming or management treatments.

Value chain stage(s) covered

Direct operations

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

Annually

Time horizon(s) covered

Short-term

Medium-term

Long-term

Description of process

Eversource continually assesses transitional risks to our system as a result of climate change and regularly partners with leading research institutions and other stakeholders to assess and respond to climate-related risks and opportunities. To maintain resiliency

and reliability as a result of increasing integration of distributed energy resources, we are implementing a grid modernization plan that will enhance our electric distribution infrastructure.
One example is In May 2019, we announced a proposal to develop the Oyster River Clean Innovation Project, a community microgrid serving the University of New Hampshire campus and critical infrastructure in the surrounding town of Durham. The microgrid will enable the grid to act as an island during extreme weather, ensuring that power serving the campus and critical town facilities is not interrupted. The microgrid proposal includes provisions for Eversource to add solar generation and energy storage as clean energy solutions to improve system resiliency and provide other benefits such as peak load reduction. Eversource is working to finalize the project design in advance of filing the Oyster River project with the New Hampshire Public Utilities Commission.

Value chain stage(s) covered

Upstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Because utility companies, including our electric, natural gas and water utility subsidiaries, have large customer bases, they are subject to adverse publicity focused on the reliability of their distribution services and the speed with which they are able to respond to electric outages, natural gas leaks and similar interruptions caused by storm damage or other unanticipated events. Adverse publicity of this nature could harm our reputation and the reputation of our subsidiaries; may make state legislatures, utility commissions and other regulatory authorities less likely to view us in a favorable light; and may cause us to be subject to less favorable legislative and regulatory outcomes or increased regulatory oversight. Unfavorable regulatory outcomes can include more stringent laws and regulations governing our operations, such as reliability and customer service quality standards or vegetation management requirements, as well as fines, penalties or other sanctions or requirements. We regularly work with state and industry leaders to deliver reliable, clean energy such as our partnership with Orsted to deliver offshore wind to our region and meet customer expectations around climate change.

Value chain stage(s) covered

Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Eversource continually assesses risks to ensure we meet energy demand, which varies with weather conditions, primarily temperature and humidity. For residential customers, heating and cooling represent their largest energy use. We have commenced development of an innovative industry-leading battery storage project that provides a solution for one of the most vulnerable areas of our service territory from a storm perspective: the towns of Wellfleet, Truro and Provincetown. These towns have experienced more than 15 major outage events over the last five years, representing over 45,000 customer outage hours. To address the system reliability needs of the area, we are constructing a 24.9 MW/38 MWh lithium-ion battery storage facility at the tip of the Outer Cape in Provincetown. The battery will reduce outages by more than 50% for customers in Wellfleet, Truro and Provincetown, based on historic data. It will be capable of providing 1.5 to 3 hours of backup power in summer “peak” conditions and up to 10 hours in the winter, spring and fall (when most of the major outages have historically occurred). All necessary approvals have been received and construction began in March 2020, with our goal to commission the project by early 2021.

Value chain stage(s) covered

Downstream

Risk management process

Integrated into multi-disciplinary company-wide risk management process

Frequency of assessment

More than once a year

Time horizon(s) covered

Short-term
Medium-term
Long-term

Description of process

Eversource continually assesses risks to ensure we meet energy demand, which varies with weather conditions, primarily temperature and humidity. For residential customers,

heating and cooling represent their largest energy use. For water customers, conservation measures imposed by the communities we serve could impact water usage. To the extent weather conditions are affected by climate change, customers' energy and water usage could increase or decrease depending on the duration and magnitude of the changes.

C2.2a

(C2.2a) Which risk types are considered in your organization's climate-related risk assessments?

	Relevance & inclusion	Please explain
Current regulation	Relevant, always included	The Environmental Protection Agency mandated greenhouse gas emission reporting beginning in 2011 for emissions for certain aspects of our business including stationary combustion, volume of gas supplied to large customers and fugitive emissions of SF6 gas and methane. Monetary and operating impacts of climate related regulations are part of our risk assessments.
Emerging regulation	Relevant, always included	We are continually evaluating the regulatory risks and regulatory uncertainty presented by climate change concerns. Such concerns could potentially lead to additional rules and regulations that impact how we operate our general utility business. These could include federal "cap and trade" laws, carbon taxes, and fuel and energy taxes. We analyze costs of these potential regulations as part of our risk assessment and expect that any costs of these rules and regulations would be recovered from customers.
Technology	Relevant, always included	Eversource regularly assesses climate risks to our system and performs upgrades to bring new construction or retrofit construction to our enhanced design criteria, meeting or exceeding technology requirements of the National Electrical Safety Code. Investments typically target upgrades that will improve the ability of the system to withstand the impacts of rising sea level, wind, lightning, snow, ice and animals. One example of a system investment is the Seafood Way Substation on the South Boston waterfront. Eversource constructed the substation to meet the growing demand for power on the waterfront, and to support energy needs in the Greater Boston region. The substation is built on a platform 15 feet above street level on pilings that are sunk some 80 feet below ground. The substation is built at this height to withstand increasingly intense storms and tidal surges.
Legal	Relevant, always included	Eversource, including various subsidiaries, is involved in legal, tax and regulatory proceedings regarding matters arising in the ordinary course of business, which involve management's assessment to determine the probability of whether a climate related loss will occur and, if probable, its best estimate of potential loss. For example, Eversource evaluates

		the costs and liability coverage of property insurance resulting from increased climate related storm severity.
Market	Relevant, always included	Eversource continually assesses risks to ensure we meet energy demand, which varies with weather conditions, primarily temperature and humidity. For residential customers, heating and cooling represent their largest energy use. For water customers, conservation measures imposed by the communities we serve could impact water usage. To the extent weather conditions are affected by climate change, customers' energy and water usage could increase or decrease depending on the duration and magnitude of the changes.
Reputation	Relevant, always included	The effects of climate change, including severe storms, could cause significant damage to our facilities and may cause outages and property damage, which may require us to incur additional costs that may not be recoverable from customers and damage our reputation with customers and the communities we serve. Additionally, the potential disruption of our operations due to storms, natural disasters or other catastrophic events could be substantial, particularly as regulators and customers demand better and quicker response times to outages. Our ongoing resiliency plans, including pole replacements and vegetation management work to continually address this risk.
Acute physical	Relevant, always included	Eversource continually assesses acute physical risks due to climate change, including from severe storms that could cause significant damage to our facilities, and may cause outages and property damage, which may require us to incur additional costs that may not be recoverable from customers and damage our reputation with customers and the communities we serve. Additionally, the potential disruption of our operations due to storms, natural disasters or other catastrophic events could be substantial, particularly as regulators and customers demand better and quicker response times to outages. Our ongoing resiliency plans, including pole replacements and vegetation management work to continually address this risk.
Chronic physical	Relevant, always included	Chronic physical risks from climate change may include an increase in sea levels and changes in weather conditions, such as changes in precipitation and extreme weather events including drought. Customers' energy needs vary with weather conditions, primarily temperature and humidity. For residential customers, heating and cooling represent their largest energy use. For water customers, conservation measures imposed by the communities we serve could impact water usage. To the extent weather conditions are affected by climate change, customers' energy and water usage could increase or decrease depending on the duration and magnitude of the changes. Eversource regularly assesses climate risks to our system and performs upgrades to bring new construction or retrofit construction to

		our enhanced design criteria, meeting or exceeding technology requirements of the National Electrical Safety Code. Investments typically target upgrades that will improve the ability of the system to withstand the impacts of wind, lightning, snow, ice and animals. One example of a system investment is the Seafood Way Substation on the South Boston waterfront. Eversource constructed the substation to meet the growing demand for power on the waterfront, and to support energy needs in the Greater Boston region. The substation is built on a platform 15 feet above street level on pilings that are sunk some 80 feet below ground. The substation is built at this height to withstand increasingly intense storms and tidal surges.

C2.3

(C2.3) Have you identified any inherent climate-related risks with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.3a

(C2.3a) Provide details of risks identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Risk 1

Where in the value chain does the risk driver occur?

Upstream

Risk type & Primary climate-related risk driver

Current regulation

Mandates on and regulation of existing products and services

Primary potential financial impact

Increased direct costs

Company-specific description

Renewable Portfolio Standards (RPS) - Each of the states in which Eversource does business has RPS requirements, which generally require fixed percentages of Eversource's energy supply to come from renewable energy sources such as solar, wind, hydropower, landfill gas, fuel cells and other similar sources. New Hampshire's RPS provision requires increasing percentages of the electricity sold to retail customers to have direct ties to renewable sources. In 2019, the total RPS obligation was 19.7 percent and it will ultimately reach 25.2 percent in 2025.

Similarly, Connecticut's RPS statute requires increasing percentages of the electricity sold to retail customers to have direct ties to renewable sources. In 2019, the total RPS obligation was 27.5 percent and will ultimately reach 48 percent in 2030. Massachusetts' RPS program also requires electricity suppliers to meet renewable energy standards. For 2019, the requirement was 24.94 percent, and will ultimately reach 38.96 percent in 2025.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

75,900,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

A REC represents 1 mwh produced from eligible renewable energy source. Minimum action to comply with RPS requires Alternative Compliance Payment (ACP). NH RPS statute requires provider to meet load by acquiring RECs representing generation from renewable energy. If provider is not able to meet RPS requirement by acquiring RECs, it must pay ACP per MWH.

2019 NH ACP price: Class I: $57.15; Class I Thermal: $25.97; Class II: $57.15; Class III: $55.00; Class IV: $28.60.
2019 CT ACP price: Class I: $55; Class II: $55; Class III: $31.
2019 MA ACP price: Class I: $70.44; SREC I: $404; SREC II: $333; Class II $28.91; Class II Waste: $11.56; Alternative Portfolio Standard (APS): $23.13.

Cost of response to risk

75,900,000

Description of response and explanation of cost calculation

Eversource purchases RECs from producers that generate energy from a qualifying resource and use them to satisfy the RPS requirements. The company satisfies REC requirements through a combination of electricity and REC purchases, or separate

REC-only contracts. To the extent that the company is unable to purchase sufficient RECs, it makes up the difference between the RECs purchased and its total obligation by making an alternative compliance payment for each REC requirement for whichever company is under supplied.

Eversource is also diversifying its energy portfolio to increase its renewable and low carbon energy resources and reducing the magnitude of risk. As one example, Eversource has installed and currently operates 70 MW of solar photovoltaic units in MA and sells the resulting renewable energy credits into the market to offset the cost of the program for customers. A second example involves state-specific agreements that facilitate development of clean and renewable projects. In Connecticut, there are several long-term contract opportunities, including the low emission/zero emission renewable credit program (LREC/ZREC), which to date has resulted in more than 2,100 behind-the-meter renewable energy projects. These 15-year REC contracts are expected to add 399 MW of new renewables in the state.

Eversource is permitted to recover costs incurred in complying with RPS from their customers through rates.

Comment

Identifier

Risk 2

Where in the value chain does the risk driver occur?

Direct operations

Risk type & Primary climate-related risk driver

Acute physical

Increased severity and frequency of extreme weather events such as cyclones and floods

Primary potential financial impact

Increased indirect (operating) costs

Company-specific description

Severe weather such as winter ice storms, unusually heavy snow, or snow that occurs early in the season, have the potential for extensive damage and extended service outages.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

Yes, an estimated range

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

5,000,000

Potential financial impact figure – maximum (currency)

570,000,000

Explanation of financial impact figure

Over the years, Eversource has experienced significant storms in the form of tropical storms and hurricanes, ice storms, blizzards, and nor'easters. As a result, Eversource suffers damage to its transmission and distribution system, causing customer outages and the incurrence of costs to repair significant damage and restore customer service. Full restoration can take over a week and cost well over $100 million for the most severe weather events. Regulatory policy in each of our three states allows us to recover prudently incurred incremental costs related to storm restoration. As of 12-31-19, our financial statements and Form 10-K reflect $540.6 million of unrecovered major storm costs across the three states we serve, down from approximately $570 million a year earlier. Those costs were incurred over several years.

Cost of response to risk

570,000,000

Description of response and explanation of cost calculation

As a result of recent unprecedented storms, Eversource has further enhanced its processes and has implemented a series of risk mitigating measures. Excellence will be achieved via specific initiatives that address each of six focus areas highlighted in reviews: preparedness, scalability, coordination, communication, situational awareness and infrastructure hardening. Senior officers were appointed to lead emergency preparedness and infrastructure hardening to make the electric system more resistant to increasingly severe weather-related events; and CL&P developed a far-reaching and comprehensive proposal to improve system resiliency. The plan includes significant investments in: a) vegetation management (both enhanced tree trimming and trimming on a shorter cycle); b) structural hardening (strengthening field structures through upgrades to the current structure design and material standards, and upgrades to the poles and conductors); c) electrical hardening (upgrading electrical distribution conductors and protective devices on overhead circuits); and d) system automation and real time monitoring. Eversource also partnered with the University of Connecticut on two research projects to study options to harden town centers which offer critical services and to improve preparation to restore interrupted electric service to customers following a weather event.

Comment

Storm restoration cost deferrals are recorded for prudently incurred costs associated with major storm events for CL&P, NSTAR Electric and PSNH. A storm must meet certain criteria to qualify as a major storm with the criteria specific to each state jurisdiction and utility company. Once a storm qualifies as a major storm, qualifying expenses incurred during storm restoration efforts are deferred and recovered from customers.

Because the recovery of prudently incurred storm recovery costs can last several years, there can be a temporary impact on cash flows. Moreover, the company only recovers prudently incurred costs. Should regulators determine that some costs were not prudently incurred, they would not be recoverable from customers.

Identifier

Risk 3

Where in the value chain does the risk driver occur?

Downstream

Risk type & Primary climate-related risk driver

Current regulation

Mandates on and regulation of existing products and services

Primary potential financial impact

Decreased revenues due to reduced demand for products and services

Company-specific description

Energy Efficiency measures reduce customer demand.

Time horizon

Medium-term

Likelihood

Virtually certain

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

Yes, a single figure estimate

Potential financial impact figure (currency)

500,000,000

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

Eversource administers energy efficiency programs for the benefit of customers in all of its operating company territories. It is important to have regulatory frameworks that do not tie electric and natural gas rates exclusively to volumes of sales. Potential financial impact is approximately $500 million per year in expenses related to energy efficiency expenditures, shown as operating expenses on our statements of net income. These expenses are all recoverable from customers.

Cost of response to risk

523,789,000

Description of response and explanation of cost calculation

Energy efficiency is the lowest-cost fuel, substituting for generation at approximately four cents per kilowatt-hour. Energy efficiency is one of the most cost-effective ways to save money, create jobs, reduce greenhouse gas emissions, and enhance energy security. The savings decrease overall energy use and reduce peak demand. Peak demand describes a period of simultaneous, strong consumer demand resulting in a strain on power generation plants. Therefore, reducing peak demand results in avoided capacity costs and can diminish the need for additional construction of generation plants. In 2019, customer participation in Eversource energy efficiency solutions saved enough to equal the output of two 105-megawatt power plants. Additionally, in 2019, Eversource energy efficiency programs generated approximately $186.3 million annual savings for our customers. Eversource spends approximately $500 million annually for energy efficiency programs.

Comment

Eversource is consistently recognized as a leader in energy efficiency by national industry organizations. We take great pride in helping our communities remain vibrant and successful by designing and delivering programs emulated across the country. The Eversource energy efficiency portfolio reflects and responds to the way our customers live and use energy today and takes a multiyear approach that enables us to help customers plan for the future. The American Council for an Energy-Efficient Economy (ACEEE) 2019 State Energy Efficiency Scorecard ranked MA first and CT sixth in the nation; and Eversource is the number one energy efficiency provider in the nation, according to Ceres' report, Benchmarking Utility Clean Energy. In 2019, Eversource received the ENERGY STAR® Partner of the Year–Sustained Excellence Award from the US EPA and the US DOE which recognized Eversource in CT, MA and NH for continued leadership in energy efficiency and commitment to the ENERGY STAR® program.

C2.4

(C2.4) Have you identified any climate-related opportunities with the potential to have a substantive financial or strategic impact on your business?

Yes

C2.4a

(C2.4a) Provide details of opportunities identified with the potential to have a substantive financial or strategic impact on your business.

Identifier

Opp1

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Returns on investment in low-emission technology

Company-specific description

Our offshore wind business includes ownership interests in North East Offshore and Bay State Wind, which together hold power purchase agreements and contracts for the Revolution Wind, South Fork Wind and Sunrise Wind as well as offshore leases through the Bureau of Ocean Energy Management (BOEM). Our offshore wind projects are being developed and constructed through a joint and equal partnership with Ørsted. This partnership also participates in opportunities for future solicitations for offshore wind energy in the Northeast U.S.

On February 8, 2019, Eversource and Ørsted entered into an equal partnership to acquire key offshore wind assets in the Northeast. Eversource has a 50 percent ownership interest in North East Offshore, which holds the Revolution Wind and South Fork Wind projects, as well as a 257 square-mile lease off the coasts of Massachusetts and Rhode Island. Eversource also has a 50 percent ownership interest in Bay State Wind, which holds the Sunrise Wind project. Bay State Wind's separate 300-square-mile ocean lease is located approximately 25 miles south of the coast of Massachusetts adjacent to the North East Offshore area. In aggregate, the Bay State Wind and the North East Offshore lease sites jointly-owned by Eversource and Ørsted could eventually develop at least 4,000 MW of clean, renewable offshore wind energy. As of December 31, 2019, Eversource's total equity investment balance in its offshore wind business was $649.3 million.

Currently we are developing our construction and operations plans, concluding on final offshore and onshore project designs and working through our siting and permitting processes, all of which is competitively sensitive. Subject to finalization of these plans, designs and processes, all of which are subject to change and modification as a result

of our investment decisions, permit approval timelines and final design decisions, we currently expect to make additional investments in our offshore wind business of approximately $300 million to $400 million over the course of 2020.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

High

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

On February 8, 2019, Eversource and Ørsted entered into an equal partnership to acquire key offshore wind assets in the Northeast. Eversource has a 50 percent ownership interest in North East Offshore, which holds the Revolution Wind and South Fork Wind projects, as well as a 257 square-mile lease off the coasts of Massachusetts and Rhode Island. Eversource also has a 50 percent ownership interest in Bay State Wind, which holds the Sunrise Wind project. Bay State Wind's separate 300-square-mile ocean lease is located approximately 25 miles south of the coast of Massachusetts adjacent to the North East Offshore area. In aggregate, the Bay State Wind and the North East Offshore lease sites jointly-owned by Eversource and Ørsted could eventually develop at least 4,000 MW of clean, renewable offshore wind energy. As of December 31, 2019, Eversource's total equity investment balance in its offshore wind business was $649.3 million.

Cost to realize opportunity

649,300,000

Strategy to realize opportunity and explanation of cost calculation

Currently we are developing our construction and operations plans, concluding on final offshore and onshore project designs and working through our siting and permitting processes, all of which is competitively sensitive. Subject to finalization of these plans, designs and processes, all of which are subject to change and modification as a result of our investment decisions, permit approval timelines and final design decisions, we currently expect to make additional investments in our offshore wind business of

approximately $300 million to $400 million over the course of 2020. The cost to realize the opportunity is $649,300,000 invested to date. We expect to invest significantly more over the coming years as we receive permits to build these already contracted offshore wind facilities and commence construction.

Comment

The competitive bid process for offshore wind precludes the company from providing specific cost information related to specific projects. The amounts shown under "Potential Financial Impact Figure" and Cost to realize opportunity" represent Eversource's equity investment in the partnership to date.

Identifier

Opp2

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Energy source

Primary climate-related opportunity driver

Use of lower-emission sources of energy

Primary potential financial impact

Returns on investment in low-emission technology

Company-specific description

In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric now owns 70 MW of solar power facilities in operation on sites in Massachusetts that were completed from 2010 through 2019. Our investment in these new facilities is approximately $170 million.

Eversource sells the solar energy it produces directly into the regional energy market managed by ISO New England and customers will benefit from the proceeds. Additionally, the company will receive Renewable Energy Credits for the power it produces and will pass the savings along to customers through electricity rates.

The 70 MW of capacity from the 22 sites is enough to power more than 11,000 homes. Annual carbon emissions avoided is expected to total 36,000 metric tons - the equivalent to taking 7,600 cars off the road per year.

These large-scale solar facilities directly contribute to Massachusetts' goal to have 27.7% renewable energy installed by 2020. The solar program focused on developing large-scale solar facilities on sites that offer economies of scale and cost-effective energy production. Some of the sites developed by the Eversource Solar Program

included landfill and environmentally-challenged sites, which have few, or very restricted, alternative uses.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric now owns 70 MW of solar power facilities on sites in Massachusetts that were completed from 2010 through 2019. Our investment in these new facilities is approximately $170 million.

Cost to realize opportunity

170,000,000

Strategy to realize opportunity and explanation of cost calculation

In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric owns and operates 70 MW of solar power facilities on sites in Massachusetts that were completed from 2010 through 2019. NSTAR Electric sells the energy from the new facilities into the ISO-NE market.

Comment

Identifier

Opp3

Where in the value chain does the opportunity occur?

Direct operations

Opportunity type

Products and services

Primary climate-related opportunity driver

Other, please specify

Use of new technologies

Primary potential financial impact

Reduced indirect (operating) costs

Company-specific description

Eversource received approval of $55 million for two energy storage projects as part of a Grid Modernization proposal in a rate case decision on November 30, 2017 - $40 million for Outer Cape Cod project and $15 million for a project on Martha's Vineyard. Some benefits of the larger project include avoiding the need to build 13 miles of distribution line through the Cape Cod National Seashore area and acting as the equivalent to taking approximately 25,000 homes off the grid during peak hours. These investments will be recovered through a grid modernization tracking mechanism beginning when the project goes into service. Construction began in 2020 and the Outer Cape project is expected to be in service by early 2021.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

This $55 million investment will be recovered through a grid modernization tracking mechanism beginning when the project goes into service. Construction began in 2020 with an in-service date for the Outer Cape project by early 2021.

Cost to realize opportunity

55,000,000

Strategy to realize opportunity and explanation of cost calculation

Eversource received regulatory approval of $55 million for two energy storage projects as part of a Grid Modernization proposal in a rate case decision on November 30, 2017. It involves $40 million for an Outer Cape Cod project and $15 million for a project on Martha's Vineyard.

Comment

This $55 million investment will be recovered through a grid modernization tracking mechanism beginning when the project goes into service.

Identifier

Opp4

Where in the value chain does the opportunity occur?

Downstream

Opportunity type

Products and services

Primary climate-related opportunity driver

Shift in consumer preferences

Primary potential financial impact

Increased revenues through access to new and emerging markets

Company-specific description

Eversource received approval of $45 million for capital investment in electric vehicle charging infrastructure as part of a Grid Modernization proposal in a rate case decision on November 30, 2017 issued by the Massachusetts Department of Public Utilities. The five-year program, started in 2018, will enable approximately 3,500 Level 2 and DC Fast Charger ports at publicly accessible locations, of which 10% will be in environmental justice communities. A potential benefit of the program is to drive adoption of EVs at publicly accessible locations to alleviate EV driver range anxiety, one of the barriers to adoption. It will also provide a platform for innovation in ownership and business models for EV charging stations, as Eversource will build and own the infrastructure to support the chargers, and the chargers themselves will be owned by third parties. Eversource has made substantial progress towards deploying charging stations throughout our service territory in Massachusetts. In 2019, approximately 500 charging ports were installed at 125 different locations across various customer segments, including workplaces, municipal parking lots, destination locations and multi-unit dwellings. This $45 million investment will be recovered through a grid modernization tracking mechanism beginning when the project goes into service.

Time horizon

Short-term

Likelihood

Virtually certain

Magnitude of impact

Medium-low

Are you able to provide a potential financial impact figure?

No, we do not have this figure

Potential financial impact figure (currency)

Potential financial impact figure – minimum (currency)

Potential financial impact figure – maximum (currency)

Explanation of financial impact figure

This $45 million investment will be recovered through a grid modernization tracking mechanism beginning when the project goes into service.

Cost to realize opportunity

45,000,000

Strategy to realize opportunity and explanation of cost calculation

Eversource received regulatory approval of $45 million for electric vehicle infrastructure commitments as part of a Grid Modernization proposal in a rate case decision on November 30, 2017.

Comment

C3. Business Strategy

C3.1

(C3.1) Have climate-related risks and opportunities influenced your organization's strategy and/or financial planning?

Yes, and we have developed a low-carbon transition plan

C3.1a

(C3.1a) Does your organization use climate-related scenario analysis to inform its strategy?

Yes, qualitative and quantitative

C3.1b

(C3.1b) Provide details of your organization's use of climate-related scenario analysis.

Climate-related scenarios and models applied	Details
Other, please specify Qualitative & quantitative analysis	As part of Eversource's recently introduced Carbon Neutrality goal, scenario analyses have been conducted internally to understand the relative impact of the company's various operations and opportunities to draw down emission intensities in order to achieve zero emissions by 2030. These evaluations have been conducted through the completion of greenhouse gas inventories and examining pathways to reduce emissions through improved efficiency, further adoption of renewable energy, and carbon offset projects. Our strategy for achieving neutrality is still underway and is expected to involve additional scenario-based analyses taking into account broader climate-related impacts including a 2ºC or lower scenario. Qualitative scenario analysis is performed by our Enterprise Risk Management (ERM) group. In addition to regularly scheduled reports by ERM of all of the Company's enterprise-wide risks and the results of the ERM Program, management reports periodically to the Finance Committee, other Board Committees or the full Board in depth on specific top enterprise risks including those related to climate change. ERM also reports regularly to the Finance Committee on the activities of the Company's Risk Committee. The Risk Committee, chaired by the Executive VP and CFO, consists of senior officers of the Company, and is responsible for ensuring that the Company is managing its principal enterprise-wide risks, as well as other key risk areas such as environmental, information technology, compliance and business continuity. As part of our ongoing NSTAR Gas rate case in Massachusetts, we have proposed a demonstration project that would evaluate the feasibility of constructing geothermal network loops coupled with ground source heat pumps as a low carbon alternative for building heating and cooling needs. Geothermal technologies take advantage of the relatively stable temperature of the ground to provide heating and cooling. A heat exchanger extracts heat out of the ground in winter and extracts heat out of buildings and pushes it into the ground in summer. We are proposing to test geothermal networks in a series of targeted scenarios. These scenarios include establishing geothermal networks at multi-family buildings, in mixed-use residential and commercial areas, and residential neighborhoods.

Other, please specify Qualitative and quantitative analysis as it relates to the increased frequency and severity of storms due to climate change	Qualitative and quantitative analysis as it relates to the increased frequency and severity of storms due to climate change is performed through our innovative partnership with University of Connecticut (UConn) on the Eversource Energy Center, which includes collaboration with utilities and industry partners. The objective of this work is to support the mitigation of storm hazards, delivering improved reliability and increasing the resiliency of the electric grid. Through science-based solutions, including high-resolution weather and outage forecasting and 3-D aerial and ground imagery we are improving the delivery of reliable power and enhanced risk management in extreme weather by predicting a storm's impact and the locations of outages to proactively dispatch crews before storms arrive. Through Storm Outage Forecasting we are predicting a storm's impact in advance of its arrival to foresee the number and location of outages and proactively dispatch crews. Working with town officials, land managers and private land owners, we continue to investigate options for maintaining ecological functions and benefits of trees while reducing risk to infrastructure from trees during storms. Opportunities include forest management techniques in forested areas, and tree-planting or trimming protocols in more urbanized communities. This important research guides our close collaboration with towns on roadside forest management and informs utility vegetation management best practices. The UConn Outage Prediction Model (OPM) forecasts a storm's impact, which Eversource combines with meteorological data to proactively pre-stage crews and expedite power restorations. The OPM provides an up to three-day advanced picture of a storm's anticipated impact, updated every six hours, and is a leading-edge approach in the electric industry. Outage predictions, along with proactive tree and forest management, are providing the greatest benefits for utility customers by avoiding and shortening outages and enhancing electric system reliability. In addition, we incorporate information from forest inventories, biomechanics work, and tree trimming or forest management history into the OPM. Along with weather data and simulations of past and future storms, this model will help to position resources at the time of a storm to ensure the quickest possible recovery from storm damage.

C3.1d

(C3.1d) Describe where and how climate-related risks and opportunities have influenced your strategy.

	Have climate-related risks and opportunities influenced your strategy in this area?	Description of influence
Products and services	Yes	Our products are electricity, natural gas and water and our services include the delivery of these products to the ultimate consumer. The impacts of climate change have created an opportunity for Eversource to develop a strategy to invest in clean energy. As a case study, through our partnership with Ørsted, we have become one of the nation's leading offshore wind developers, with approved contracts for about 1,700 megawatts, including a contract signed in 2019 to provide 880 megawatts to New York electric consumers for 25 years. Additionally, Eversource manages one of the nation's most extensive and successful energy efficiency programs and is recognized as the top U.S. utility for its energy efficiency program by advocacy organizations Ceres and ACEEE. These programs result in lower unit sales but costs are fully recoverable with incentives based on the effectiveness of the programs
Supply chain and/or value chain	Yes	Eversource operates in Connecticut, Massachusetts and New Hampshire, all of which have requirements that a percentage of the electricity supply come from renewable sources to address climate change risks. To address the risk that we maintain our ability. to procure clean energy, Eversource has committed to purchase significant amounts of clean energy for our region. As a case study, Massachusetts has created legislation intended to promote renewable energy, enhance reliability, ensure a resilient energy future for the Commonwealth, and secure progress toward greenhouse gas reduction requirements. Due to Eversource's significant efforts, 20-year agreements have been signed to purchase the renewable power generated from three projects. These projects will be shared by all three Massachusetts electric distribution companies ensuring a continued commitment to the development of renewable energy.
Investment in R&D	Yes	Eversource is making investments in innovative technologies to mitigate risks due to more severe weather

		as a result of climate change risks. We are continually improving and benchmarking our ability to integrate renewable energy onto our distribution system, including a pilot program utilizing cellular technology to seamlessly integrate renewable energy, such as solar farms and fuel cell projects. These efforts not only improve reliability but also obviate the use of back up generation, which has higher emissions Eversource has proposed a gas demand response demonstration project in Massachusetts, that is pending regulatory approval. In the program, customers are incentivized to reduce their natural gas consumption in response to a signal they receive for a set time period, It is designed to test whether such a program can shave peak demand, alleviate physical pipeline constraints, reduce the amount of pipeline capacity the company needs to buy to service customers and reduce greenhouse gas emissions by reducing overall gas usage. As part of our ongoing NSTAR Gas rate case in Massachusetts, we have proposed a demonstration project that would evaluate the feasibility of constructing geothermal network loops coupled with ground source heat pumps as a low carbon alternative for building heating and cooling needs. We are proposing to test geothermal networks in a series of targeted scenarios, including establishing geothermal networks at multi-family buildings, in mixed-use residential and commercial areas, and residential neighborhoods.
Operations	Yes	We believe it is important to lead by example in reducing our emissions and demonstrate that carbon neutrality is achievable. Our customers, employees, shareholders, and other stakeholders expect this of us and we are proud to know our progress toward carbon neutrality benefits the overarching climate change mitigation plans of the states we serve. To this end, we remain focused on clean energy and searching for innovative solutions to mitigate our operational emissions. We are also preparing to address any gaps in our emissions that are unavoidable through creative carbon offset programs that not only contribute to our carbon balance but also benefit the communities in which we operate. We aim to meet our goal to be carbon neutral in our operations by 2030 by:

		Reducing our own energy use by improving the efficiency of our facilities. • Reducing vehicle emissions from our fleet. • Reducing line losses in the electric transmission and distribution system. • Reducing sulfur hexafluoride (SF6) in our electrical gas-insulated substations and switchgear. • Upgrading our natural gas distribution system to improve safety and eliminate methane leaks. • Increasing investments in renewable generation that will further reduce the carbon footprint of our operations.

C3.1e

(C3.1e) Describe where and how climate-related risks and opportunities have influenced your financial planning.

	Financial planning elements that have been influenced	Description of influence
Row 1	Revenues Direct costs Capital allocation Acquisitions and divestments Assets	Revenues: Eversource manages one of the nation's most extensive and successful energy efficiency programs and is recognized as the top U.S. utility for its energy efficiency program by advocacy organizations Ceres and ACEEE. These programs result in lower unit sales but costs are fully recoverable with incentives based on the effectiveness of the programs. Direct Costs: Eversource spends 5-7% of its revenues on energy efficiency programs. We believe it is important to lead by example and so have set a goal to be carbon neutral in our operations by 2030. By lowering our emissions as much as possible and then offsetting any remaining emissions with carbon offsets, we are mitigating climate change risks. Initiatives that support our goal we expect will ultimately lower our operating costs while lowering emissions include: • In 2019, we exceeded our goal to replace 50% of our facility lighting with LED from a 2017 base year, by replacing 51%, over 1.2 million square feet of installations completed. • We have switched portions of our diesel equipment to operate on B5 and B20 biodiesel, an alternative fuel created by mixing diesel fuel, soybean oil and ethanol. In 2019, we exceeded our goal to replace 42% of our diesel with biofuel blend. Benefits include an estimated 1,300 MT CO2e avoided annually, which is equivalent to taking about 275 passenger vehicles off the road for one year. Additionally, the ability to refuel vehicles onsite led to improved efficiency and cost savings. Capital Allocation: In 2019, Eversource Energy subsidiary NSTAR

		Electric completed its inaugural issuance of $400 million of green bonds (3.25 percent debentures due 2029) that will finance Eligible Green Expenditures – including energy efficiency programs and solar power generation projects – in the Commonwealth of Massachusetts. A green bond is a bond whose proceeds are used for, or allocated to, projects with environmental benefits. NSTAR Electric's was the first green bond transaction issued by a Massachusetts-based utility distribution company. Offering the green bonds is another way the company is supporting energy efficiency efforts and renewable energy development in Massachusetts. When issued in May 2019, the company committed to allocate an amount equal to the net proceeds from the bonds ($396.5 million) to Eligible Green Expenditures, such as energy efficiency program spending and solar power generation projects in Massachusetts. Acquisitions and divestments: In New Hampshire, Eversource owned approximately 1,200 MW of generation facilities. On January 10, 2018, Eversource completed the sale of its fossil fuel powered generation facilities with a total capacity of 1,100 MW. Subsequently, Eversource sold its hydro generation units in August 2018. Since the January 2018 transaction, no Eversource company has owned any fossil generation. Assets: In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric now owns 70 MW of solar power facilities on sites in Massachusetts that were completed from 2010 through 2019.

C3.1f

(C3.1f) Provide any additional information on how climate-related risks and opportunities have influenced your strategy and financial planning (optional).

C4. Targets and performance

C4.1

(C4.1) Did you have an emissions target that was active in the reporting year?

Both absolute and intensity targets

C4.1a

(C4.1a) Provide details of your absolute emissions target(s) and progress made against those targets.

Target reference number

Abs 1

Year target was set

2019

Target coverage

Company-wide

Scope(s) (or Scope 3 category)

Scope 1+2 (location-based)

Base year

2019

Covered emissions in base year (metric tons CO2e)

656,872

Covered emissions in base year as % of total base year emissions in selected Scope(s) (or Scope 3 category)

100

Target year

2030

Targeted reduction from base year (%)

100

Covered emissions in target year (metric tons CO2e) [auto-calculated]

0

Covered emissions in reporting year (metric tons CO2e)

656,872

% of target achieved [auto-calculated]

0

Target status in reporting year

New

Is this a science-based target?

No, and we do not anticipate setting one in the next 2 years

Please explain (including target coverage)

In 2019, Eversource set an industry-leading goal to be carbon neutral in our operations by 2030. We believe it is important to lead by example in reducing our emissions and demonstrate that carbon neutrality is achievable. Our customers, employees, shareholders, and other stakeholders expect this of us and we are proud to know our progress toward carbon neutrality benefits the overarching climate change mitigation

plans of the states we serve. To this end, we remain focused on clean energy and searching for innovative solutions to mitigate our operational emissions. We are also preparing to address any gaps in our emissions that are unavoidable through creative carbon offset programs that not only contribute to our carbon balance but also benefit the communities in which we operate.

C4.1b

(C4.1b) Provide details of your emissions intensity target(s) and progress made against those target(s).

Target reference number

Int 1

Year target was set

2019

Target coverage

Business activity

Scope(s) (or Scope 3 category)

Scope 1

Intensity metric

Other, please specify

Pounds of SF6 emitted/nameplate capacity

Base year

2018

Intensity figure in base year (metric tons CO2e per unit of activity)

2

% of total base year emissions in selected Scope(s) (or Scope 3 category) covered by this intensity figure

4.46

Target year

2019

Targeted reduction from base year (%)

25

Intensity figure in target year (metric tons CO2e per unit of activity) [auto-calculated]

1.5

% change anticipated in absolute Scope 1+2 emissions

0.4

% change anticipated in absolute Scope 3 emissions

0

Intensity figure in reporting year (metric tons CO2e per unit of activity)

0.62

% of target achieved [auto-calculated]

276

Target status in reporting year

Achieved

Is this a science-based target?

No, and we do not anticipate setting one in the next 2 years

Please explain (including target coverage)

In 2019, we set an annual voluntary goal to limit our annual SF6 emission rate to 1.5% across all three states where we operate, which we achieved In, 2019 Eversource emitted 2861.9 pounds SF6 for a reported emission rate of 0.62% for 2019 on nameplate capacity of 459857.2 pounds. By using current proactive maintenance efforts, Eversource reduced SF6 emissions with cost of gas savings and increased system reliability.

C4.2

(C4.2) Did you have any other climate-related targets that were active in the reporting year?

Target(s) to increase low-carbon energy consumption or production
Target(s) to reduce methane emissions
Other climate-related target(s)

C4.2a

(C4.2a) Provide details of your target(s) to increase low-carbon energy consumption or production.

Target reference number

Low 1

Year target was set

2018

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

Target type: energy carrier

Electricity

Target type: activity

Production

Target type: energy source

Renewable energy source(s) only

Metric (target numerator if reporting an intensity target)

Target denominator (intensity targets only)

Base year

2018

Figure or percentage in base year

8

Target year

2030

Figure or percentage in target year

3,000

Figure or percentage in reporting year

70

% of target achieved [auto-calculated]

2.0721925134

Target status in reporting year

Underway

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain (including target coverage)

In 2018, Eversource set a strategic goal to reduce regional GHG emissions by advancing clean energy projects that have the potential to bring 3,000 MW of renewable power to the region by 2030. Our proposed projects will help our region offset GHG emissions by facilitating the increased regional use of wind and solar power. We are pursuing offshore wind projects and installing solar projects to the maximum extent allowed by state governments. To date, Eversource has completed the construction of

70 MW of solar power, and our joint venture with Ørsted has the potential to develop at least 4,000 MW of clean, affordable offshore wind.

Target reference number
Low 2

Year target was set
2018

Target coverage
Business division

Target type: absolute or intensity
Absolute

Target type: energy carrier
Electricity

Target type: activity
Consumption

Target type: energy source
Low-carbon energy source(s)

Metric (target numerator if reporting an intensity target)

Target denominator (intensity targets only)

Base year
2019

Figure or percentage in base year
0

Target year
2019

Figure or percentage in target year
870,829,875

Figure or percentage in reporting year
902,463,836

% of target achieved [auto-calculated]
103.6326223879

Target status in reporting year

Achieved

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain (including target coverage)

Eversource set a target to implement energy efficiency programs for our electric customers to achieve annual
savings of 870,829,875 kWh in 2019. Actual savings achieved were 902,463,836 kWh, exceeding our target.

Target reference number

Low 3

Year target was set

2018

Target coverage

Business division

Target type: absolute or intensity

Absolute

Target type: energy carrier

Other, please specify

Natural gas

Target type: activity

Consumption

Target type: energy source

Low-carbon energy source(s)

Metric (target numerator if reporting an intensity target)

Target denominator (intensity targets only)

Base year

2019

Figure or percentage in base year

0

Target year

2019

Figure or percentage in target year

10,344,585

Figure or percentage in reporting year

8,586,307

% of target achieved [auto-calculated]

83.002914085

Target status in reporting year

Expired

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

Other, please specify

Please explain (including target coverage)

Eversource set a target to implement energy efficiency programs for our natural gas customers to achieve annual savings of 10,344,585 therms in 2019. Actual savings achieved were 8,586,307 therms. Though this was below target, the savings were significant and the benefits of therms saved are the equivalent of heating nearly 12,000 homes for a year.

C4.2b

(C4.2b) Provide details of any other climate-related targets, including methane reduction targets.

Target reference number

Oth 1

Year target was set

2017

Target coverage

Business division

Target type: absolute or intensity

Intensity

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

Methane reduction target

Other, please specify

Reduction in miles of bare steel and cast-iron gas mains

Target denominator (intensity targets only)

Other, please specify

% of mains replaced

Base year

2017

Figure or percentage in base year

0

Target year

2020

Figure or percentage in target year

14.5

Figure or percentage in reporting year

10.7

% of target achieved [auto-calculated]

73.7931034483

Target status in reporting year

Underway

Is this target part of an emissions target?

Reductions in our miles of bare steel and cast iron main will contribute to our goal to be carbon neutral in our operations by 2030.

Is this target part of an overarching initiative?

Other, please specify

Reductions in our miles of bare steel and cast iron main will contribute to our goal to be carbon neutral in our operations by 2030.

Please explain (including target coverage)

Eversource has set a goal to go beyond our Methane Challenge program commitment to achieve 14.5% reduction in miles of bare steel and cast-iron main from 2017 baseline by 2020. As of the end of 2019, we have replaced 10.7% of the bare steel and cast-iron mains across our system and we are on track to achieve the baseline reduction of 14.5% by the end of 2020.

Historically, the natural gas industry used non-cathodically protected steel and cast-iron materials for distribution main and service piping. These leak-prone materials have significantly higher leak rates in comparison to modern plastic piping. As a result, we have undertaken large-scale pipe replacement projects in conjunction with state agencies to replace aging cast-iron and steel pipes with safer plastic pipes and implemented a robust leak management program. Fugitive emissions from the Eversource natural gas distribution system have steadily decreased over time and are

anticipated to continue decreasing. Since 2015, Eversource has replaced 333 miles of our aged non-cathodically protected steel, cast-iron, and wrought-iron natural gas distribution infrastructure in Connecticut and Massachusetts in accordance with programs approved by state regulators. This has resulted in reductions of 73 metric tonnes of methane annually (1,827 MT CO2e) since 2015 and we plan to replace the remainder within 15 years.

In 2016, Eversource, along with almost 40 American Gas Association members, became a founding member of the U.S. EPA's Natural Gas STAR Methane Challenge Program. We continue to exceed our commitments made under this program.

Target reference number

Oth 2

Year target was set

2019

Target coverage

Company-wide

Target type: absolute or intensity

Absolute

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

Green finance

Green finance raised and facilitated (denominated in currency)

Target denominator (intensity targets only)

Base year

2019

Figure or percentage in base year

0

Target year

2019

Figure or percentage in target year

396,500,000

Figure or percentage in reporting year

396,500,000

% of target achieved [auto-calculated]

100

Target status in reporting year

Achieved

Is this target part of an emissions target?

No

Is this target part of an overarching initiative?

No, it's not part of an overarching initiative

Please explain (including target coverage)

In 2019, Eversource Energy subsidiary NSTAR Electric completed its inaugural issuance of $400 million of green bonds (3.25 percent debentures due 2029) to finance Eligible Green Expenditures – including energy efficiency programs and solar power generation projects – in the Commonwealth of Massachusetts.

A green bond is a bond whose proceeds are used for, or allocated to, projects with environmental benefits. NSTAR Electric's was the first green bond transaction issued by a Massachusetts-based utility distribution company. Offering the green bonds is another way the company is supporting energy efficiency efforts and renewable energy development in Massachusetts.

When issued in May 2019, the company committed to allocate an amount equal to the net proceeds from the bonds ($396.5 million) to Eligible Green Expenditures, such as energy efficiency program spending and solar power generation projects in Massachusetts. 100% of the proceeds was allocated through $250.2 million to energy efficiency programs and $146.3 million to solar programs. Details are available on our website at https://www.eversource.com/content/ct-c/about/investors/investor-relations/sustainability-the-environment/green-bond/2019-green-bond.

C4.3

(C4.3) Did you have emissions reduction initiatives that were active within the reporting year? Note that this can include those in the planning and/or implementation phases.

Yes

C4.3a

(C4.3a) Identify the total number of initiatives at each stage of development, and for those in the implementation stages, the estimated CO2e savings.

	Number of initiatives	Total estimated annual CO2e savings in metric tonnes CO2e (only for rows marked *)
Under investigation	1	0
To be implemented*	1	5,433,400

Implementation commenced*	5	251,270
Implemented*	4	326,842
Not to be implemented	0	

C4.3b

(C4.3b) Provide details on the initiatives implemented in the reporting year in the table below.

Initiative category & Initiative type

Company policy or behavioral change
Customer engagement

Estimated annual CO2e savings (metric tonnes CO2e)

240,000

Scope(s)

Scope 3

Voluntary/Mandatory

Mandatory

Annual monetary savings (unit currency – as specified in C0.4)

31,100,000

Investment required (unit currency – as specified in C0.4)

700,000,000

Payback period

21-25 years

Estimated lifetime of the initiative

21-30 years

Comment

Within the Comprehensive Energy Strategy, Connecticut's leaders endorsed natural gas as the "fuel of choice" for the state, and recognized the emerging opportunity provided by shale gas for a lower-cost, cleaner, and domestically available fuel choice for Connecticut residents and businesses. Connecticut's Comprehensive Energy Strategy was updated in 2018 and reaffirmed that natural gas remains a cost effective and cleaner fuel choice.

In 2019, Eversource added a total of 8,461 new natural gas customers across both Massachusetts and Connecticut, with 4,524 being new Connecticut gas customers. We also expanded our distribution system in Connecticut by 72 miles of pipe in 2019. As we

look to the future, we expect to bring the choice of natural gas to more than 82,000 Connecticut residential and business customers, which would reduce carbon emissions in the state by 820,000 tons—a 7% reduction in total emissions.

Initiative category & Initiative type

Energy efficiency in buildings
Lighting

Estimated annual CO2e savings (metric tonnes CO2e)

994

Scope(s)

Scope 2 (location-based)

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Estimated lifetime of the initiative

Comment

Eversource has set a goal to transition 50% of facility square footage to LED lighting as compared to a 2017 baseline. We are accelerating our transition to LED as a more energy-efficient lighting by committing to replace existing lighting in more than 2 million square feet of facilities by 2020. Long-term benefits include cost savings, reduced maintenance through longer life cycle, and decreased cooling load as LED lighting generates less heat. In 2019 we exceeded our goal by converting 51% of our facility square footage to LED lighting, that's over 1.2 million square feet of installations completed.

Initiative category & Initiative type

Transportation
Company fleet vehicle replacement

Estimated annual CO2e savings (metric tonnes CO2e)

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

Investment required (unit currency – as specified in C0.4)

Payback period

Estimated lifetime of the initiative

Comment

Eversource is committed to reducing emissions from the transportation sector by evaluating and implementing strategic upgrades to our fleet. Our fleet consists of approximately 5,400 vehicles, including light-duty trucks for meter readers and bucket trucks for line workers. As part of our goal to be carbon neutral by 2030, we have developed innovative projects and targets to drive emission reductions across the company. Fleet targets include:

• Replace 100% of our overhead trucks with plug-in hybrid electric vehicles by 2030.

• Pilot demonstration technology focused on electrification of heavy- and medium-duty vehicles that will be expanded pending results of pilots.

• Replace 50% of all fleet vehicles with hybrid electric vehicles (including some plug-ins) by 2030.

Along with other utility members of the Edison Electric Institute (EEI), the electric industry's most prominent industry trade group, we have pledged to commit 5% of our annual fleet spend on plug-in electric technologies. We have historically exceeded our commitment and in 2019 and 2020-to-date plug-in electric vehicle purchases represented approximately 38% of our lifecycle investment plan. We plan to continue our efforts and exceed the EEI commitment moving forward as we lead by example in our own operations.

Initiative category & Initiative type

Transportation

Other, please specify

Replace diesel with biofuel mix

Estimated annual CO2e savings (metric tonnes CO2e)

1,265

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

0

Payback period

1-3 years

Estimated lifetime of the initiative

Ongoing

Comment

We have switched portions of our diesel equipment to operate on B5 and B20 biodiesel, an alternative fuel created by mixing diesel fuel, soybean oil and ethanol. In 2019, our goal was to replace 42% of our diesel with biofuel blend. Benefits include an estimated 1,300 MT CO2e avoided annually, which is equivalent to taking about 275 passenger vehicles off the road for one year. Additionally, the ability to refuel vehicles onsite led to improved efficiency and cost savings. We exceeded our goal in 2019, replacing 43.1% of fleet diesel with the biofuel blend, resulting in 1,265 MT CO2e avoided. Achieving the goal is predicated upon maximizing onsite fuelling of vehicles with biodiesel. Outage events and other non-standard work precludes vehicles from being fuelled onsite with biodiesel. Our Fleet Management team has created a monthly key performance indicator, which it shares with our Operations team, to demonstrate the percentage of onsite fuelling achieved. In 2020, we set a goal based upon our 2019 performance and aim to replace 43% of our diesel with the biofuel blend.

Initiative category & Initiative type

Transportation

Company fleet vehicle efficiency

Estimated annual CO2e savings (metric tonnes CO2e)

44

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

15,000

Investment required (unit currency – as specified in C0.4)

2,250,000

Payback period

>25 years

Estimated lifetime of the initiative

6-10 years

Comment

Use of 103 compressed natural gas (CNG) powered vehicles across our service territory that in 2019 consumed the 23,594 gallon-equivalent of natural gas, thus avoiding 44 metric tonnes of CO2e emissions. As of 2019, there are seven total CNG vehicle refuelling compressor stations owned by Eversource that are used by our corporate fleet.

Initiative category & Initiative type

Fugitive emissions reductions

Oil/natural gas methane leak capture/prevention

Estimated annual CO2e savings (metric tonnes CO2e)

7,190

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

1,000,000,000

Payback period

21-25 years

Estimated lifetime of the initiative

16-20 years

Comment

In Connecticut, Eversource was first in the state to implement an accelerated replacement and reliability program; and in 2019, the pace of pipe replacement was further accelerated. In MA, the company developed our Gas System Enhancement Plan

to prioritize and accelerate the replacement of pipe with new, state-of-the-art plastic piping. This program is approved annually by the Massachusetts DPU. As a result, Eversource is helping the environment, improving system reliability, and creating the springboard to drive natural gas expansion within our service territories

Eversource has agreed to voluntary accelerated main and service replacement programs in both CT and MA in a 20-to-25 year timeframe. In addition to continual investment to replace leak-prone infrastructure, our efforts to provide a safe and reliable system include:
- a rigorous system of gas leak detection and maintenance programs that meet or exceed federal and state regulations;
- aggressive leak response time goals that we consistently meet;
- public awareness campaigns that promote leak identification and natural gas safety;
- engagement with first responders to increase awareness and conduct training.

Eversource plans to replace over 470 miles of aging gas main during 2019-2023, projecting capital expenditures for these programs of nearly $1 billion.

This voluntary replacement program will exceed our commitment to the Methane Challenge program of replacing 3% of cast iron and bare steel by 2021.

Initiative category & Initiative type

Company policy or behavioral change
Customer engagement

Estimated annual CO2e savings (metric tonnes CO2e)

288,583

Scope(s)

Scope 3

Voluntary/Mandatory

Mandatory

Annual monetary savings (unit currency – as specified in C0.4)

186,261,666

Investment required (unit currency – as specified in C0.4)

523,789,020

Payback period

1-3 years

Estimated lifetime of the initiative

Ongoing

Comment

Energy efficiency programs are administered by each of the Eversource operating companies (The Connecticut Light and Power Company, NSTAR Electric Company, Public Service Company of New Hampshire, NSTAR Gas Company and Yankee Gas Services Company. Annual Monetary Savings is combined 2019 estimated annual savings for all Eversource customers.

Initiative category & Initiative type

Fugitive emissions reductions

Other, please specify

SF6 emission reductions

Estimated annual CO2e savings (metric tonnes CO2e)

4,036

Scope(s)

Scope 1

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

11,000

Investment required (unit currency – as specified in C0.4)

0

Payback period

<1 year

Estimated lifetime of the initiative

6-10 years

Comment

Eversource emitted 2861.9 pounds SF6 for a reported emission rate of 0.62% for 2019 on nameplate capacity of 459,851 pounds. By using current proactive maintenance efforts, Eversource reduced SF6 emissions from a 1.5% baseline with cost of gas savings and increased system reliability.

Initiative category & Initiative type

Low-carbon energy consumption

Solar PV

Estimated annual CO2e savings (metric tonnes CO2e)

36,000

Scope(s)

Scope 3

Voluntary/Mandatory

Voluntary

Annual monetary savings (unit currency – as specified in C0.4)

0

Investment required (unit currency – as specified in C0.4)

170,000,000

Payback period

21-25 years

Estimated lifetime of the initiative

21-30 years

Comment

Our solar program focuses on developing large-scale solar facilities on sites that offer economies of scale and cost-effective energy production. The Massachusetts DPU has authorized Eversource to own and operate up to 70 MW of solar generation facilities. Along with the significant environmental benefits, there are substantial cost-saving benefits for Eversource customers in the Bay State. The company estimates it will produce solar power for about 18 cents per kilowatt-hour, compared to upwards of 50 cents per kilowatt-hour for some private projects currently operating within the Commonwealth.

We have constructed 22 solar generation facilities totalling 70 MW of solar capacity in Massachusetts, which is estimated to save nearly 36,000 metric tonnes of carbon per year, reducing our scope 3 “use of sold products” emissions. The last of our sites became operational in 2019, creating total Eversource solar generation will be enough to power more than 11,000 homes, and GHG emission reductions will be equivalent to taking 7,600 cars off the road per year. Four of our solar facilities are located on landfill or brownfield sites, which have few alternative uses.

C4.3c

(C4.3c) What methods do you use to drive investment in emissions reduction activities?

Method	Comment
Compliance with regulatory requirements/standards	Renewable Portfolio Standards (RPS) exist in the three states in Eversource's service territory: CT, MA, NH. RPS require fixed percentages of energy supply to come from renewable energy sources such as solar, hydropower, landfill gas, fuel cells and other similar sources. Connecticut's RPS statute requires increasing

	percentages of the electricity sold to retail customers to have direct ties to renewable sources. In 2019, the total RPS obligation was 27.5 percent and will reach 29 percent in 2020. Massachusetts' RPS program also requires electricity suppliers to meet renewable energy standards. For 2019, the requirement was 24.94 percent, and will reach 27.71 percent in 2020. New Hampshire's RPS provision requires increasing percentages of the electricity sold to retail customers to have direct ties to renewable sources. In 2019, the total RPS obligation was 19.7 percent and it will reach 20.7 percent in 2020. Eversource system companies are in full compliance with current state RPS obligations.
Dedicated budget for energy efficiency	Eversource is consistently recognized as a leader in energy efficiency by national industry organizations. We take great pride in helping our communities remain vibrant and successful by designing and delivering programs that are emulated by others across the country. Our energy efficiency portfolio reflects and responds to the way our customers live and use energy today and takes a multi-year approach that enables us to help customers plan for the future. The American Council for an Energy-Efficient Economy (ACEEE) 2019 State Energy Efficiency Scorecard ranked Massachusetts first and Connecticut sixth in the nation. In 2019, Eversource received the ENERGY STAR® Partner of the Year – Sustained Excellence Award from the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE). The EPA and DOE recognized Eversource in Connecticut, Massachusetts and New Hampshire for continued leadership in energy efficiency and commitment to the ENERGY STAR® program. Energy efficiency is the lowest-cost fuel, substituting for generation at approximately four cents per kilowatt-hour. Energy efficiency is one of the most cost-effective ways to save money, create jobs, reduce GHG emissions, and enhance energy security. Efficiency reduces peak demand, a period of simultaneous, strong consumer demand that results in a strain on power generation. Reducing peak demand results in avoided capacity costs and can diminish the need for additional construction of generation plants. In 2019, customer participation in Eversource energy efficiency solutions was equivalent to two 105-megawatt (MW) power plants. Additionally, in 2019 Eversource energy efficiency programs generated approximately $186 million in savings annually for our customers.
Dedicated budget for other emissions reduction activities	Eversource has been involved in the R&D of plug-in electric vehicles and the supporting infrastructure through industry organizations and independent projects and is in the process of collaborating with various municipalities and large customers to test EV charging stations at locations in Connecticut and Massachusetts to guide next steps.

Dedicated budget for other emissions reduction activities	In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric completed installation of all solar power facilities in 2019, thus currently has 70 MW of operational solar power facilities on sites in Massachusetts. We estimate our investment in these new facilities will be approximately $170 million.
Employee engagement	Eversource has undertaken various actions to reduce its internal carbon footprint generated by employees and facilities such as energy efficiency improvements in its buildings, teleconferencing capabilities and administering Eco-Miles, an innovative program to track employee mileage savings through a variety of commuting options. Launched in 2009, employees use an online payroll reporting system to track miles not driven through carpooling, public transportation, telecommuting or other mileage savings options. Since 2009, our Eco-Miles program has tracked employee mileage savings through a variety of commuting options to capture driven miles avoided through carpooling, public transportation, telecommuting, or other mileage-savings options. Over 340 employees participated in 2019 and reported 263,000 Eco-miles, which are miles not driven. This is the equivalent of 106 metric tonnes of carbon emissions avoided.
Internal incentives/recognition programs	All Eversource management employees are eligible to receive incentive payments based on performance. Performance goals for certain employees may include environmental targets, support for emerging environmental laws, regulations and policy (including climate change related); stewardship and sustainable business practices such as Energy Efficiency, and other GHG mitigation; and supporting strategic initiatives related to energy efficiency, distributed generation, Smart Grid and renewable energy.
Partnering with governments on technology development	Since 2012, we have partnered with forward-thinking municipalities and businesses on research to understand charging station installation requirements, electric vehicle (EV) driver charging habits and potential future electric system requirements. We are using this research to address identified challenges and develop mitigation strategies to better serve our customers. We have hosted and participated in several EV Ride & Drive events, giving customers a chance to experience EVs on the road, as well as sponsoring EV dealer training. We also offer an EV resource page on Eversource.com, with fast access to EV information and resources. All of the states that we serve are pursuing comprehensive plans that include the advancement of EVs. CT and MA are 2 of 8 states that signed the State Zero-Emission Vehicle Program MOU in 2013, with a combined two-state target of having 450,000 zero-emission vehicles on the road by 2025, along

	with the supporting infrastructure. In CT, we are working with the Dept of Energy and Environmental Protection on programs to support EV adoption and development of EV charging infrastructure. Details on these programs can be found at the EVconnecticut website. Eversource funding for DEEP programs has included the installation of publicly accessible DC Fast Chargers and grants to increase the number of publicly available EV charging stations. In MA, we serve as a commissioner on the Zero Emission Vehicle Commission, which studies the economic and environmental benefits and costs of increased use of zero emission vehicles. We are working with the Dept of Energy Resources on programs to advance the EV market through a combination of studies, outreach and education. Additionally, in 2019, we announced a partnership with Mass Audubon to install EV charging stations at seven of the conservation nonprofit's network of wildlife sanctuaries. In NH, Eversource serves as a member of the Electric Vehicle Charging Stations Infrastructure Commission to study and recommend policy on the development of EV charging stations throughout the state. In 2019, Eversource, as part of a joint effort with the state's other utilities, proposed a plan for creating a DC Fast Charging network across NH's travel corridors to bolster NH's tourism industry and bring more business to the local economy while providing environmental and sustainability benefits.
Partnering with governments on technology development	Eversource has been expanding our partnership with Denmark-based Ørsted since 2016 to jointly develop, construct and operate at least 4,000 MW of utility-scale offshore wind turbines off the coast of southeast New England. Eversource and our partner, Ørsted, have been awarded three offshore wind projects totalling more than 1,700 megawatts of capacity: • South Fork Wind: 35 miles east of Long Island and expected to be commissioned no earlier than 2023, it will generate 130 MW of energy under a long-term purchase power agreement with the Long Island Power Authority. • Revolution Wind: Contracted to produce 704 MW and located 15 miles south of the Rhode Island coast. 304 MW is earmarked for Connecticut, with the remaining 400 MW going to Rhode Island. Revolution Wind is expected to be commissioned by the end of 2023. • Sunrise Wind: An 880 MW offshore wind project awarded to the Eversource-Ørsted partnership by the New York State Energy Resource & Development Authority (NYSERDA). Sunrise Wind will

	supply electricity to more than a half million homes under an Offshore Wind Renewable Energy Credit (OREC) agreement, and will interconnect in Suffolk County, Long Island. The wind farm will be constructed in an offshore lease area located approximately 30 miles east of Montauk Point, Long Island, and expected to be operational by the end of 2024.
Other	Connecticut's Comprehensive Energy Strategy was updated in 2018 and reaffirmed that natural gas remains a cost effective and cleaner fuel choice. In 2019, Eversource added a total of 8,461 new natural gas customers across both Massachusetts and Connecticut, with 4,524 being new Connecticut gas customers. We also expanded our distribution system in Connecticut by 72 miles of pipe in 2019. As we look to the future, we expect to bring the choice of natural gas to more than 82,000 Connecticut residential and business customers, which would reduce carbon emissions in the state by 820,000 tons—a 7% reduction in total emissions. To learn more about natural gas expansion in Connecticut, please visit our website.

C4.5

(C4.5) Do you classify any of your existing goods and/or services as low-carbon products or do they enable a third party to avoid GHG emissions?

Yes

C4.5a

(C4.5a) Provide details of your products and/or services that you classify as low-carbon products or that enable a third party to avoid GHG emissions.

Level of aggregation

Product

Description of product/Group of products

Eversource is consistently recognized as a leader in energy efficiency by national industry organizations. We take great pride in helping our states and communities remain vibrant and successful by designing and delivering programs that are emulated by others across the country. The Eversource energy efficiency portfolio reflects and responds to the way our customers live and use energy today and takes a multiyear approach that enables us to help customers plan for the future. The American Council for an Energy-Efficient Economy (ACEEE) 2019 State Energy Efficiency Scorecard ranked Massachusetts first and Connecticut sixth in the nation. In 2019, Eversource received the ENERGY STAR® Partner of the Year – Sustained Excellence Award from the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE). The EPA and DOE recognized Eversource in Connecticut, Massachusetts and

New Hampshire for continued leadership in energy efficiency and commitment to the ENERGY STAR® program. The savings decrease overall energy use and reduce peak demand. Peak demand describes a period of simultaneous, strong consumer demand, resulting in a strain on power generation plants. Therefore, reducing peak demand results in avoided capacity costs and can diminish the need for additional construction of generation plants. Actual results indicate energy efficiency programs administered by Eversource's operating companies enabled customers to reduce electric consumption by 902,463,836 MWh and natural gas by 8,586,307 therms in 2019, which equates to approximately 288,583 metric tons of CO2e reduced annually.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Low-Carbon Investment (LCI) Registry Taxonomy

% revenue from low carbon product(s) in the reporting year

5.9

Comment

Level of aggregation

Company-wide

Description of product/Group of products

Since 2016, Eversource has been expanding our partnership with Denmark-based Ørsted to jointly develop, construct and operate at least 4,000 MW of utility-scale offshore wind turbines off the coast of southeast New England. Eversource and our partner, Ørsted, have been awarded three offshore wind projects totalling more than 1,700 megawatts of capacity:

• South Fork Wind: 35 miles east of Long Island and expected to be commissioned by the end of 2023, it will generate 130 MW of energy under a long-term purchase power agreement with the Long Island Power Authority.
• Revolution Wind: Contracted to produce 704 MW and located 15 miles south of the Rhode Island coast. 304 MW is earmarked for Connecticut, with the remaining 400 MW going to Rhode Island. Revolution Wind is expected to be commissioned by the end of 2023.
• Sunrise Wind: An 880 MW offshore wind project awarded to the Eversource-Ørsted partnership by the New York State Energy Resource & Development Authority (NYSERDA). Sunrise Wind will supply electricity to more than a half million homes under an Offshore Wind Renewable Energy Credit (OREC) agreement, and will interconnect in Suffolk County, Long Island. The wind farm will be constructed in an offshore lease area located approximately 30 miles east of Montauk Point, Long Island,

and expected to be operational by the end of 2024.

The development of offshore wind in the Northeast is in its beginning phase and the Eversource Ørsted partnership will play an active role in its development. This business also participates in opportunities for future solicitations for offshore wind in the Northeast U.S. These projects are expected to reduce emissions by approximately 5,433,400 metric tons of CO2e annually. The calculation of the reduction of CO2e emissions is based on 4,000 MW of capacity, a 50% capacity factor and current grid intensity.

Are these low-carbon product(s) or do they enable avoided emissions?

Avoided emissions

Taxonomy, project or methodology used to classify product(s) as low-carbon or to calculate avoided emissions

Low-Carbon Investment (LCI) Registry Taxonomy

% revenue from low carbon product(s) in the reporting year

0

Comment

The entry reported in column: "% revenue from low carbon product/s in the reporting year" is 0 because the offshore wind facilities are not yet in operation.

C-EU4.6

(C-EU4.6) Describe your organization's efforts to reduce methane emissions from your activities.

We do not have any current initiatives for methane reduction for electricity generation. Any decrease would be a result of a decrease in production from prior year. In January 2018, Eversource completed the sale of its five New Hampshire fossil fuelled and biomass powered generation facilities.

We are investing in upgrades to aging natural gas infrastructure to reduce methane emissions in our operations. For instance, our natural gas pipeline replacement initiative reduces fugitive methane emissions from our natural gas distribution system. Since 2015, we have replaced 333 miles of our aged non-cathodically protected steel, cast-iron, and wrought-iron natural gas distribution infrastructure in Connecticut and Massachusetts in accordance with programs approved by state regulators. This has resulted in reductions of 73 metric tonnes of methane annually (1,827 MT CO2e) since 2015 and we plan to replace the remainder within 15 years.

C5. Emissions methodology

C5.1

(C5.1) Provide your base year and base year emissions (Scopes 1 and 2).

Scope 1

Base year start

January 1, 2013

Base year end

December 31, 2013

Base year emissions (metric tons CO2e)

1,903,214

Comment

The Scope 1 baseline was revised in 2018 based on changes made to emissions factors used to calculate emissions associated with the gas distribution system. Eversource had previously used emissions factors in 40CFR Part 98, subpart W, but changed to use those provided by the Massachusetts Department of Environmental Protection in 310 CMR 7.73.

Scope 2 (location-based)

Base year start

January 1, 2013

Base year end

December 31, 2013

Base year emissions (metric tons CO2e)

836,299

Comment

The Scope 2 baseline for location-based emissions has been revised (in 2018) based on changes made to accounting procedures which led to changes in the calculations of line loss and associated emissions.

Scope 2 (market-based)

Base year start

Base year end

Base year emissions (metric tons CO2e)

Comment

C5.2

(C5.2) Select the name of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised Edition)
US EPA Mandatory Greenhouse Gas Reporting Rule
Other, please specify
Massachusetts Department of Environmental Protection emissions factors under 310 CMR 7.73

C5.2a

(C5.2a) Provide details of the standard, protocol, or methodology you have used to collect activity data and calculate emissions.

Data was collected and calculated by the Eversource companies primarily using the World Resource Institute GHG Protocol tool. Stationary combustion emissions associated with electric generating unit used more accurate Continuous Emissions Monitoring System (CEMS) data. US EPA reporting protocol under 40 CFR Part 98 was used for calculating SF6 emissions. Gas distribution emissions calculated using emissions factors provided by Massachusetts Department of Environmental Protection in 310 CMR 7.73. Please note: 2013 is the baseline year for the first inventory of the merged companies. Prior to 2013, emissions were reported to CDP separately for NSTAR and Northeast Utilities, now known as Eversource Energy.

C6. Emissions data

C6.1

(C6.1) What were your organization's gross global Scope 1 emissions in metric tons CO2e?

Reporting year

Gross global Scope 1 emissions (metric tons CO2e)

128,822.5

Comment

C6.2

(C6.2) Describe your organization's approach to reporting Scope 2 emissions.

Row 1

Scope 2, location-based

We are reporting a Scope 2, location-based figure

Scope 2, market-based

Comment

C6.3

(C6.3) What were your organization's gross global Scope 2 emissions in metric tons CO2e?

Reporting year

Scope 2, location-based

528,049.9

Comment

C6.4

(C6.4) Are there any sources (e.g. facilities, specific GHGs, activities, geographies, etc.) of Scope 1 and Scope 2 emissions that are within your selected reporting boundary which are not included in your disclosure?

No

C6.5

(C6.5) Account for your organization's gross global Scope 3 emissions, disclosing and explaining any exclusions.

Purchased goods and services

Evaluation status

Relevant, not yet calculated

Please explain

Capital goods

Evaluation status

Relevant, not yet calculated

Please explain

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

Evaluation status

Not relevant, explanation provided

Please explain

All fuel and energy related activities are included in Scope 1 and 2.

Upstream transportation and distribution

Evaluation status

Relevant, not yet calculated

Please explain

Waste generated in operations

Evaluation status

Relevant, not yet calculated

Please explain

Business travel

Evaluation status

Relevant, calculated

Metric tonnes CO2e

3,387

Emissions calculation methodology

The Greenhouse Gas Protocol and WRI Transport Tool. This figure includes all mobile sources for business travel.

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

14

Please explain

Data is collected from third-party providers as well as our internal payroll system. There should be no exclusions.

Employee commuting

Evaluation status

Not evaluated

Please explain

Upstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

We include leased assets in Scope 1 and 2.

Downstream transportation and distribution

Evaluation status

Not relevant, explanation provided

Please explain

We have no downstream transportation and distribution of our products. They are considered "complete/used" upon sale.

Processing of sold products

Evaluation status

Not relevant, explanation provided

Please explain

There is no additional processing of our products. They are considered “complete/used” upon sale.

Use of sold products

Evaluation status

Relevant, calculated

Metric tonnes CO2e

19,099,405

Emissions calculation methodology

Method based on USEPA reporting and electric and natural gas sales.

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

100

Please explain

As a regional gas and electric distribution company, we purchase and deliver electricity and natural gas for customer use. Scope 3 carbon emissions associated with the use of natural gas are determined by US EPA protocol for 40 CFR 98, Subpart NN. Carbon emissions associated with customer use of electricity are estimated based on reported sales and the use of current federally reported carbon emissions from local generation.

End of life treatment of sold products

Evaluation status

Not relevant, explanation provided

Please explain

There is no “end of life treatment” of our products. They are considered “complete/used” upon sale.

Downstream leased assets

Evaluation status

Not relevant, explanation provided

Please explain

There are no downstream leased assets for Eversource.

Franchises

Evaluation status

Not relevant, explanation provided

Please explain

All Eversource franchises (business divisions) are included in Scope 1 and 2.

Investments

Evaluation status

Not relevant, explanation provided

Please explain

All Eversource properties and investment assets are included in Scope 1 and 2.

Other (upstream)

Evaluation status

Not evaluated

Please explain

Other (downstream)

Evaluation status

Not evaluated

Please explain

C6.7

(C6.7) Are carbon dioxide emissions from biogenic carbon relevant to your organization?

Yes

C6.7a

(C6.7a) Provide the emissions from biogenic carbon relevant to your organization in metric tons CO2.

	CO2 emissions from biogenic carbon (metric tons CO2)	Comment

Row 1	1,171.51	1,171.51 metric tonnes CO2e from biofuels used in mobile sources.

C6.10

(C6.10) 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.

Intensity figure

0.0000770392

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

656,872.4

Metric denominator

unit total revenue

Metric denominator: Unit total

8,526,470,000

Scope 2 figure used

Location-based

% change from previous year

19.9

Direction of change

Decreased

Reason for change

Scopes 1 and 2 declined primarily due to reductions in the carbon intensity of the New England electrical grid. Also, our fugitive emissions associated with operations were reduced.

C7. Emissions breakdowns

C7.1

(C7.1) Does your organization break down its Scope 1 emissions by greenhouse gas type?

Yes

C7.1a

(C7.1a) Break down your total gross global Scope 1 emissions by greenhouse gas type and provide the source of each used greenhouse warming potential (GWP).

Greenhouse gas	Scope 1 emissions (metric tons of CO2e)	GWP Reference
CO2	56,080	IPCC Fourth Assessment Report (AR4 - 100 year)
CH4	43,251	IPCC Fourth Assessment Report (AR4 - 100 year)
N2O	129	IPCC Fourth Assessment Report (AR4 - 100 year)
SF6	29,363	IPCC Fourth Assessment Report (AR4 - 100 year)

C-EU7.1b

(C-EU7.1b) Break down your total gross global Scope 1 emissions from electric utilities value chain activities by greenhouse gas type.

	Gross Scope 1 CO2 emissions (metric tons CO2)	Gross Scope 1 methane emissions (metric tons CH4)	Gross Scope 1 SF6 emissions (metric tons SF6)	Total gross Scope 1 emissions (metric tons CO2e)	Comment
Fugitives	0	1,729	1.289	72,595	Fugitive emissions include emissions from the natural gas distribution system as well as SF6 fugitive emissions from electric distribution.
Combustion (Electric utilities)	0	0	0	0	
Combustion (Gas utilities)	0	0	0	0	
Combustion (Other)	56,080	0.7	0	56,227	(Combustion emissions include stationary and mobile fuel burning sources for all of Eversource

Emissions not elsewhere classified	0	0	0	0	

C7.2

(C7.2) Break down your total gross global Scope 1 emissions by country/region.

Country/Region	Scope 1 emissions (metric tons CO2e)
United States of America	128,822.5

C7.3

(C7.3) Indicate which gross global Scope 1 emissions breakdowns you are able to provide.

By business division
By activity

C7.3a

(C7.3a) Break down your total gross global Scope 1 emissions by business division.

Business division	Scope 1 emissions (metric ton CO2e)
Eversource CT (The Connecticut Light and Power Company, Yankee Gas and Aquarion)	12,691
Eversource MA East (NSTAR Electric Company, NSTAR Gas Company, and former WMECO)	2,198
Eversource NH (Public Service Company of New Hampshire)	11
Eversource Other (Includes SF6, methane leaks and mobile sources)	113,922

C7.3c

(C7.3c) Break down your total gross global Scope 1 emissions by business activity.

Activity	Scope 1 emissions (metric tons CO2e)
Generation	0
Stationary Combustion	14,900
Mobile Sources	41,327
Gas Leakage	43,232
SF6 Leakage	29,363

C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4

(C-CE7.4/C-CH7.4/C-CO7.4/C-EU7.4/C-MM7.4/C-OG7.4/C-ST7.4/C-TO7.4/C-TS7.4) Break down your organization's total gross global Scope 1 emissions by sector production activity in metric tons CO2e.

	Gross Scope 1 emissions, metric tons CO2e	Comment
Electric utility activities	0	We are primarily an electric distribution and transmission company, although our operations include some solar generation, natural gas storage and distribution, and water utilities. We have no emissions associated only with the generation of solar power.

C7.9

(C7.9) How do your gross global emissions (Scope 1 and 2 combined) for the reporting year compare to those of the previous reporting year?

Decreased

C7.9a

(C7.9a) 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	Emissions value (percentage)	Please explain calculation
Change in renewable energy consumption	0			
Other emissions reduction activities	3,374		0.51	Eversource continues to reduce emissions from SF6 use by improving operations and maintenance, as well as replacement of aging equipment with equipment that is less prone to leakage.
Divestment	0	No change		
Acquisitions	0			
Mergers	0	No change		

Change in output	0	No change		
Change in methodology	114,810		17.48	The USEPA updated the emissions factors for electricity in eGRID, resulting in fewer emissions for overall electric use and line loss.
Change in boundary	0	No change		
Change in physical operating conditions	0	No change		
Unidentified	0	No change		
Other	37,081	Decreased	5.65	Other emissions decreases were due to attention to potential reductions in all business areas as part of our overall carbon strategy. Areas we saw the greatest decrease were fuel burning for heat and emergency generation of power and for process fuel in our LNGs.

C7.9b

(C7.9b) Are your emissions performance calculations in C7.9 and C7.9a based on a location-based Scope 2 emissions figure or a market-based Scope 2 emissions figure?

Location-based

C8. Energy

C8.1

(C8.1) What percentage of your total operational spend in the reporting year was on energy?

More than 0% but less than or equal to 5%

C8.2

(C8.2) 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)	Yes
Consumption of purchased or acquired electricity	Yes
Consumption of purchased or acquired heat	No
Consumption of purchased or acquired steam	Yes
Consumption of purchased or acquired cooling	Yes
Generation of electricity, heat, steam, or cooling	Yes

C8.2a

(C8.2a) Report your organization's energy consumption totals (excluding feedstocks) in MWh.

	Heating value	MWh from renewable sources	MWh from non-renewable sources	Total (renewable and non-renewable) MWh
Consumption of fuel (excluding feedstock)	HHV (higher heating value)	0	248,807	248,807
Consumption of purchased or acquired electricity		0	123,863	123,863
Consumption of purchased or acquired steam		0	1,208	1,208
Consumption of purchased or acquired cooling		0	844	844
Consumption of self-generated non-fuel renewable energy		0		0
Total energy consumption		0	374,722	374,722

C8.2b

(C8.2b) 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	No
Consumption of fuel for the generation of heat	Yes
Consumption of fuel for the generation of steam	No
Consumption of fuel for the generation of cooling	No
Consumption of fuel for co-generation or tri-generation	No

C8.2c

(C8.2c) State how much fuel in MWh your organization has consumed (excluding feedstocks) by fuel type.

Fuels (excluding feedstocks)

Diesel

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

90,054

Emission factor

73.96

Unit

kg CO2 per million Btu

Emissions factor source

40 CFRPart 98 Subpart C, Table C-1, C-2

Comment

Fuel use in MWh is calculated and emissions are reported using USEPA emissions factors from CFR Part 98.

Fuels (excluding feedstocks)

Natural Gas

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

68,315

Emission factor

66.88

Unit

kg CO2 per million Btu

Emissions factor source

40 CFR Part 98 Subpart C, TableC-1, C-2

Comment

Fuel use in MWh is calculated and emissions are reported using USEPA emissions factors from CFR Part 98.

Fuels (excluding feedstocks)

Motor Gasoline

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

81,652

Emission factor

70.22

Unit

kg CO2 per million Btu

Emissions factor source

40 CFR Part 98 Subpart C, TableC-1, C-2

Comment

Fuel use in MWh is calculated and emissions are reported using USEPA emissions factors from CFR Part 98

Fuels (excluding feedstocks)

Propane Liquid

Heating value

HHV (higher heating value)

Total fuel MWh consumed by the organization

8,125.48

Emission factor

61.71

Unit

kg CO2 per million Btu

Emissions factor source

40 CFR Part98 Subpart C, Table C-1, C-2

Comment

Calculations here for propane as Liquified Petroleum Gas (LPG) in MWh and emissions are reported here using USEPA emissions factors from CFR Part 98

C-EU8.2d

(C-EU8.2d) For your electric utility activities, provide a breakdown of your total power plant capacity, generation, and related emissions during the reporting year by source.

Coal – hard

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Lignite

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Oil

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Gas

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Biomass

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Waste (non-biomass)

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Nuclear

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Fossil-fuel plants fitted with CCS

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Geothermal

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Hydropower

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Wind

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Solar

Nameplate capacity (MW)

70

Gross electricity generation (GWh)

37.08

Net electricity generation (GWh)

37.08

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Marine

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Other renewable

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Other non-renewable

Nameplate capacity (MW)

0

Gross electricity generation (GWh)

0

Net electricity generation (GWh)

0

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

Total

Nameplate capacity (MW)

70

Gross electricity generation (GWh)

37.08

Net electricity generation (GWh)

37.08

Absolute scope 1 emissions (metric tons CO2e)

0

Scope 1 emissions intensity (metric tons CO2e per GWh)

0

Comment

Solar is the only generation we have

C-EU8.4

(C-EU8.4) Does your electric utility organization have a transmission and distribution business?

Yes

C-EU8.4a

(C-EU8.4a) Disclose the following information about your transmission and distribution business.

Country/Region

United States of America

Voltage level

Transmission (high voltage)

Annual load (GWh)

58,596.5

Annual energy losses (% of annual load)

4

Scope where emissions from energy losses are accounted for

Scope 2 (location-based)

Emissions from energy losses (metric tons CO2e)

497,836

Length of network (km)

100,907

Number of connections

3,852,733

Area covered (km2)

34,266

Comment

All figures provided above are for our transmission and distribution system as a combined operation. All emissions are included in transmission segment because there is no way to identify emissions for transmission and distribution separately.

Transmission - High Voltage (kV): 69 to 345
Distribution - Low Voltage (kV): less than 69

Length of network includes distribution overhead and underground circuit miles totaling 93,876 and transmission overhead and underground cable miles that total 7,004.

Number of connections includes 3,223,951 electric customers, 563 substations and 628,219 energy transformers.

C9. Additional metrics

C9.1

(C9.1) Provide any additional climate-related metrics relevant to your business.

C-EU9.5a

(C-EU9.5a) Break down, by source, your total planned CAPEX in your current CAPEX plan for power generation.

Primary power generation source	CAPEX planned for power generation from this source	Percentage of total CAPEX planned for power generation	End year of CAPEX plan	Comment

C-EU9.5b

(C-EU9.5b) Break down your total planned CAPEX in your current CAPEX plan for products and services (e.g. smart grids, digitalization, etc.).

Products and services	Description of product/service	CAPEX planned for product/service	Percentage of total CAPEX planned products and services	End of year CAPEX plan
Electric vehicles	Executing on $45 million effort to build 3,500 new charging ports. Expected completion by early/mid 2021.	45,000,000	19	2024
Smart grid	Grid facing investments in visibility and automation. New 2022-2024 plan due to Massachusetts Department of Public Utilities by mid-2021.	133,000,000	57	2024
Large-scale storage	Construction underway on Cape Cod project; permitting continues on Martha's Vineyard project. Completion expected in 2021 at a cost of $55 million.	55,000,000	24	2024

C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6

(C-CE9.6/C-CG9.6/C-CH9.6/C-CN9.6/C-CO9.6/C-EU9.6/C-MM9.6/C-OG9.6/C-RE9.6/C-ST9.6/C-TO9.6/C-TS9.6) Does your organization invest in research and development (R&D) of low-carbon products or services related to your sector activities?

	Investment in low-carbon R&D	Comment
Row 1	Yes	Eversource is making investments in innovative technologies to mitigate risks and investigate opportunities related to climate change.

C-CO9.6a/C-EU9.6a/C-OG9.6a

(C-CO9.6a/C-EU9.6a/C-OG9.6a) Provide details of your organization's investments in low-carbon R&D for your sector activities over the last three years.

Technology area	Stage of development in the reporting year	Average % of total R&D investment over the last 3 years	R&D investment figure in the reporting	Comment

			year (optional)	
Renewable energy	Pilot demonstration			We are continually improving and benchmarking our ability to integrate renewable energy onto our distribution system, including a pilot program utilizing cellular technology to seamlessly integrate renewable energy, such as solar farms and fuel cell projects. These efforts not only improve reliability but also obviate the use of back up generation, which has higher emissions
Demand side response programs	Pilot demonstration			Eversource has proposed a gas demand response demonstration project in Massachusetts, that is pending regulatory approval. In the program, customers are incentivized to reduce their natural gas consumption in response to a signal they receive for a set time period, It is designed to test whether such a program can shave peak demand, alleviate physical pipeline constraints, reduce the amount of pipeline capacity the company needs to buy to service customers and reduce greenhouse gas emissions by reducing overall gas usage.
Other, please specify Geothermal pilot	Pilot demonstration			As part of our ongoing NSTAR Gas rate case in Massachusetts, we have proposed a demonstration project that would evaluate the feasibility of constructing geothermal network loops coupled with ground source heat pumps as a low carbon alternative for building heating and cooling needs. We are proposing to test geothermal networks in a series of targeted scenarios, including establishing geothermal networks at multi-family buildings,

				in mixed-use residential and commercial areas, and residential neighborhoods.

C10. Verification

C10.1

(C10.1) Indicate the verification/assurance status that applies to your reported emissions.

	Verification/assurance status
Scope 1	No third-party verification or assurance
Scope 2 (location-based or market-based)	No third-party verification or assurance
Scope 3	No third-party verification or assurance

C10.2

(C10.2) Do you verify any climate-related information reported in your CDP disclosure other than the emissions figures reported in C6.1, C6.3, and C6.5?

No, we do not verify any other climate-related information reported in our CDP disclosure

C11. Carbon pricing

C11.1

(C11.1) Are any of your operations or activities regulated by a carbon pricing system (i.e. ETS, Cap & Trade or Carbon Tax)?

No, and we do not anticipate being regulated in the next three years

C11.2

(C11.2) Has your organization originated or purchased any project-based carbon credits within the reporting period?

No

C11.3

(C11.3) Does your organization use an internal price on carbon?

No, and we do not currently anticipate doing so in the next two years

C12. Engagement

C12.1

(C12.1) Do you engage with your value chain on climate-related issues?

Yes, our suppliers

Yes, our customers

C12.1a

(C12.1a) Provide details of your climate-related supplier engagement strategy.

Type of engagement

Information collection (understanding supplier behavior)

Details of engagement

Collect climate change and carbon information at least annually from suppliers

% of suppliers by number

100

% total procurement spend (direct and indirect)

100

% of supplier-related Scope 3 emissions as reported in C6.5

0

Rationale for the coverage of your engagement

Eversource is committed to sustainability in our supply chain and recognizes the importance of ethical behavior in both business relationships and in the workplace. Our supply chain sustainability program is focused on sharing our commitment to sustainability with our vendors. From training sessions with our Procurement Agents to targeted meetings with suppliers, we seek to identify opportunities that will further embed sustainability into our supply chain. During our procurement process, all vendors are required to respond to a series of sustainability questions that score their ESG efforts.

Additionally, Eversource requires all vendors to adhere to our Supplier Code of Business Conduct. We actively support industry-wide expansion of supply chain sustainability through participation in the Electric Utility Industry Sustainable Supply Chain Alliance (“EUISSCA”). EUISSCA is a collaboration of utilities working together to advance sustainability best practices in utility supply chain activities and supplier networks. Focusing on non-fuel suppliers, EUISSCA’s goal is to work with industry suppliers and other interested parties to improve environmental performance and

advance sustainable business.

Impact of engagement, including measures of success

Supplier RFP ESG questions seek to identify environmental improvement opportunities, any environmental compliance violations, whether they publicly report voluntary goals to reduce energy consumption, and publicly report GHG emissions. Scores for all awarded vendors are tracked on an ongoing basis to monitor progress and ensure supplier compliance with laws and regulations. The program serves to:

- Understand supplier sustainability efforts.
- Communicate our commitment to sustainability.
- Screen to differentiate supplier choice if all else is equal.
- Establish a baseline of supplier sustainability performance.
- Enable future trending.
- Encourage conversations on sustainability opportunities in our supply chain.

Comment

C12.1b

(C12.1b) Give details of your climate-related engagement strategy with your customers.

Type of engagement

Collaboration & innovation

Details of engagement

Run a campaign to encourage innovation to reduce climate change impacts

% of customers by number

65

% of customer - related Scope 3 emissions as reported in C6.5

99.9

Please explain the rationale for selecting this group of customers and scope of engagement

Eversource is committed to shaping new, forward-looking energy efficiency policies, legislation and regulations in each of the states in which we operate. We are proud to partner with our regulators and stakeholders, including the New England Clean Energy Council, Massachusetts Energy Efficiency Advisory Council, Connecticut Energy Efficiency Board and the New Hampshire Energy Efficiency and Sustainable Energy Board, to offer three statewide energy efficiency initiatives: Energize Connecticut, Mass Save and NHSaves. We provide innovative, industry-leading ways to help all customers save money and energy. We offer discounts, rebates and incentives for energy-saving

products and services, professional energy assessments, tools to help customers better understand their energy use, quick energy saving facts, and much more.

Eversource works with businesses small and large to identify and implement energy improvement opportunities, reduce operational costs, and increase productivity and competitiveness. We focus on a comprehensive approach to energy efficiency, emphasizing strategy and efficient use of available resources to have the biggest impact. Our highly skilled technical staff is dedicated to connecting customers to those solutions and to the financial incentives that help lower costs and improve payback for customers. Eversource serves the communities where we live and work in numerous ways, including offering educational curriculum for students of all ages, as well as training and workforce development opportunities for adults, including partnerships with community colleges. We also work with community action agencies in all three states to connect low income customers with energy efficiency solutions which in most cases are provided free of charge to qualified customers.

Impact of engagement, including measures of success

Our Small Business Energy Advantage initiative helps connect small business customers to energy- and money-saving upgrades like LED Lighting, Smart thermostats, improved insulation, and HVAC upgrades. In MA and NH, we partner with municipal and community small business associations on “Main Streets” campaigns that raise awareness of available energy efficiency services and include a door-to-door campaign to offer small business owners no-cost energy assessments. The Main Street campaign in Chelsea, MA, connected the community to an estimated $150,000 in annual energy savings. To date, we have held more than 30 Main Streets events in communities throughout MA and NH.

In 2019, Eversource and the University of New Hampshire (UNH) signed a three-year energy efficiency MOU — the first partnership of its kind taken on by any of New Hampshire’s colleges or universities. The partnership will take a comprehensive, cost effective approach to energy management at UNH’s Durham campus, reduce university operating costs, free up capital and enhance budget forecasting for future building and infrastructure improvement projects. The long-term savings will allow UNH to continue to invest in energy efficient improvements, offer more services, and reduce the campus’s environmental impact. Through the partnership, UNH commits to annually saving 3-4 percent of its energy purchased from Eversource. To date, over 20 energy efficiency improvement projects are already underway or completed, including new LED lighting and controls in several buildings across campus, lab air change reduction in labs, new HVAC and Variable Frequency Drives -upgrades, and more. Over three years, the partnership is projected to avoid 1,169 tons of CO2 emissions.

In November 2019, Eversource and New England Airfoil Products (NEAP) unveiled energy efficiency upgrades at the aerospace manufacturer’s Farmington headquarters. The upgrades included a new LED lighting system, which uses 75% less energy than the previous system, and a new air compressor VFD, which cut HVAC energy usage by

more than 35%. The partnership will result in CO2 reductions of more than 470 tons a year and more than $50,000 in annual energy savings thanks to these upgrades. Energy efficiency will allow NEAP to remain as competitive as possible, while focusing on workforce development, job growth, and its commitment to sustainability.

C12.3

(C12.3) Do you engage in activities that could either directly or indirectly influence public policy on climate-related issues through any of the following?

Direct engagement with policy makers
Trade associations
Funding research organizations
Other

C12.3a

(C12.3a) On what issues have you been engaging directly with policy makers?

Focus of legislation	Corporate position	Details of engagement	Proposed legislative solution
Energy efficiency	Support	Eversource's leadership team works closely with lawmakers and regulators in each of the states in which it operates to shape new energy legislation, regulations and policy that focus on energy efficiency and maintaining Eversource's position as an industry-leading energy efficiency provider. The Company also engages directly with a wide variety of stakeholders and policy makers on energy efficiency issues through its membership on the New England Clean Energy Council, Massachusetts Energy Efficiency Advisory Council, the Connecticut Energy Efficiency Board and the NH Energy Efficiency & Sustainable Energy Board.	Massachusetts Green Communities Act of 2008 Public Act No. 13-298 - An Act Concerning Implementation of Connecticut's Comprehensive Energy Strategy and Various Revisions to the Energy Statutes. 2018 Comprehensive Energy
Clean energy generation	Support	In December 2016, the Massachusetts Department of Public Utilities approved NSTAR Electric's application to develop 62 MW of new solar power facilities in addition to the 8 MW of existing solar power facilities. NSTAR Electric now owns	An Act Relative to Solar Energy - Approved April 11, 2016

		and operates 70 MW of solar power facilities on sites in Massachusetts that were completed from 2010 through 2019. Along with the significant environmental benefits, there are substantial cost-saving benefits for Eversource customers in the Bay State. The company estimates it will produce solar power for about 18 cents per kwh, compared to upwards of 50 cents per kwh for some private projects currently operating within the Commonwealth. The total solar capacity of 70 MW is enough to power more than 11,000 homes and is estimated to save nearly 36,000 metric tons of carbon per year - equivalent to taking 7,600 cars off the road per year. We estimate our investment in these new facilities will be approximately $170 million.	
Other, please specify Comprehensive Energy Plan	Support	Within the Comprehensive Energy Strategy, Connecticut's leaders endorsed natural gas as the "fuel of choice" for the state, and recognized the emerging opportunity provided by shale gas for a lower-cost, cleaner, and domestically available fuel choice for Connecticut residents and businesses. Connecticut's Comprehensive Energy Strategy was updated in 2018 and reaffirmed that natural gas remains a cost effective and cleaner fuel choice. The strategy also included a series of policy proposals to expand energy choices, improve environmental conditions, create clean energy jobs, and enhance the quality of life for customers in the state. Many of the recommendations in the strategy required actions by the PURA and	Public Act No. 13-298 - An Act Concerning Implementation of Connecticut's Comprehensive Energy Strategy and Various Revisions to the Energy Statutes. 2018 Comprehensive Energy Strategy: CT GENERAL STATUTES SECTION 16a-3d

		the legislature. Eversource was actively involved in this legislation.	
Other, please specify Regulation of Methane	Support	In July 2014, Massachusetts enacted "An Act Relative to Natural Gas Leaks" (the Act). The Act establishes a uniform natural gas leak classification standard for all Massachusetts natural gas utilities and a program that accelerates the replacement of aging natural gas infrastructure. The program enables companies, including NSTAR Gas, to better manage the scheduling and costs of replacement. The Act also calls for the Massachusetts Department of Public Utilities (DPU) to authorize natural gas utilities to design and offer programs to customers that will increase the availability, affordability and feasibility of natural gas service for new customers. NSTAR Gas filed the Gas System Enhancement Program (GSEP) with the DPU on October 31, 2014. NSTAR Gas' program accelerates the replacement of certain natural gas distribution facilities in the system within 20 years. The GSEP includes a new tariff by which NSTAR Gas collects the costs for the program on an annual basis. On April 30, 2015, the DPU approved the GSEP.	An Act Relative to Natural Gas Leaks
Clean energy generation	Support	On August 8, 2016, Massachusetts legislation was enacted that requires Electric Distribution Companies (EDCs) to jointly solicit RFPs and enter into long-term contracts for offshore wind and clean energy, such as hydro-power, land-based wind or solar. On March 31, 2017, the EDCs, including Eversource, and the Massachusetts Department of Energy Resources issued a joint RFP for 9.45 terawatt hours of clean	MA Bill H.4568 - An Act to Promote Energy Diversity

		energy per year, such as hydropower, land-based wind or solar. The RFP sought proposals for long-term contracts of 15 to 20 years to provide the state's EDCs with clean energy generation.	
Clean energy generation	Support	On June 7, 2019, the Governor of Connecticut signed legislation that authorizes the development of offshore wind in Connecticut. Among its provisions, the legislation authorizes the state to purchase up to 2,000 MW of offshore wind.	CT HB 7156 - An Act Concerning The Procurement of Energy Derived from Offshore Wind

C12.3b

(C12.3b) Are you on the board of any trade associations or do you provide funding beyond membership?

Yes

C12.3c

(C12.3c) Enter the details of those trade associations that are likely to take a position on climate change legislation.

Trade association

Various executives from Eversource served on boards in 2019. Eversource collaborates with many government and non-governmental organizations and associations to advance its sustainability activities and continuously learn of new or better ways to improve our presence on this planet. Many of these organizations take a position on climate change and promote the sharing of best practices and continuous improvement in corporate responsibility areas. The first example includes: Northeast Clean Energy Council (James Hunt, III, Eversource's Senior Vice President - Regulatory Affairs and Chief Communications Officer on Board in 2019).

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

Northeast Clean Energy Council (NECEC, formerly New England Clean Energy Council) supports local, state and federal initiatives to advance state, regional and federal clean energy policy through the following activities: Develops new clean energy policy proposals and proposals for program designs; Advocates for legislation to grow the clean energy sector; Engages with policy makers and regulatory agencies to influence clean energy policy and regulations; Hosts public events on clean energy policy and

finance issues; Conducts research on barriers to industry growth. NECEC consults with its members and other clean energy stakeholders to educate policymakers and advance the effectiveness of its advocacy for policy and regulations that create demand and support development and deployment of clean energy technologies.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Environmental Business Council of New England (Eversource Vice President, Sustainability and Environmental Affairs, Catherine Finneran, served on the Board in 2019 and was elected Chair of the Board in June 2020)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

Environmental Business Council of New England (EBC) was established in 1990 by environmental and energy company executives who began meeting on a regular basis to exchange ideas and share experiences. The EBC was the first organization in the United States established to support and foster the development of the environmental industry. Its goal is to enhance business and job growth of both established and emerging environmental and energy businesses. The EBC is committed to supporting its members by: providing member companies with an array of programs, activities, and information to enable them to stay on the cutting edge of environmental and energy technologies, management and regulatory developments; and creating networking opportunities that facilitate meaningful relationships between leaders in the industry, leading to collaboration and teaming.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position and regulatory requirements on various issues that impact Eversource.

Trade association

American Council for an Energy Efficient Economy (ACEEE) (Penni McLean-Conner, Eversource's Chief Customer Officer and Senior Vice President serves as Chair of the Board of Directors).

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The American Council for an Energy-Efficient Economy (ACEEE) is dedicated to advancing energy efficiency as a means of promoting economic prosperity, energy

security and environmental protection. ACEEE fulfills its mission by: Conducting in-depth technical and policy assessments; Advising policymakers and program managers; Working collaboratively with businesses, government officials, public interest groups and other organizations; Organizing conferences and workshops; Publishing books, conference proceedings and reports; and Educating consumers and businesses. Projects are carried out by ACEEE staff and selected energy efficiency experts from universities, national laboratories and the private sector. ACEEE's program areas include: Energy Policy, Outreach and Research (including programs on buildings and equipment, utilities, industry, agriculture, transportation, behavior, economic analysis, and international).

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Consortium for Energy Efficiency (CEE) (Frank Gundal, Eversource's Director of Energy Efficiency serves on their Board)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

Consortium for Energy Efficiency (CEE) is the US and Canadian consortium of gas and electric efficiency program administrators that works together to accelerate the development and availability of energy efficient products and services for lasting public benefit.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Edison Electric Institute (James J. Judge, Chairman, President and CEO of Eversource, served on Board in 2019; Jeffrey Kotkin, Vice President, Investor Relations, ESG Steering Committee Co-Chairman during 2019)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The Edison Electric Institute (EEI) is the association that represents all U.S. investor-owned electric companies. Its members provide electricity for 220 million Americans, operate in all 50 states and the District of Columbia, and directly employ nearly 500,000 workers. Safe, reliable, affordable, and clean electricity powers the economy and

enhances the lives of all Americans. EEI provides public policy leadership, strategic business intelligence, and essential conferences and forums in order to make a significant and positive contribution to the long-term success of the electric power industry in its vital mission to provide electricity to foster economic progress and improve the quality of life. The ESG Steering Committee focused on developing voluntary ESG reporting to the investment community, that is concise and consistent for our industry, to include practices, programs, and initiatives designed to support the company's transition to a lower carbon and increasingly sustainable energy future. The EEI ESG initiative holds at least two meetings a year with industry representatives, the financial community and groups that use the data generated by EEI's standardized ESG template in an effort to improve industry-wide disclosure. The electric and natural gas industries are the only industries in the US that have achieved widespread adoption of such standardized templates.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

American Gas Association (Eversource President of Gas Operations William Akley was a board member and on Safety Committee in 2019; Jeffrey Kotkin, Vice President, Investor Relations, ESG Steering Committee Member during 2019)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The American Gas Association (AGA) represents more than 200 local energy companies that deliver clean natural gas throughout the United States. More than 68 million residential, commercial and industrial customers across the nation receive their reliable, affordable supplies of natural gas from AGA members—and natural gas meets almost a quarter of America's energy needs. AGA is committed to leveraging and utilizing America's abundant, domestic, affordable and clean natural gas to help meet the nation's energy and environmental needs. AGA represents companies delivering natural gas safely, reliably, and in an environmentally responsible way to help improve the quality of life for their customers every day. Its mission is to provide clear value to its membership and serve as the indispensable, leading voice and facilitator in promoting the safe, reliable, and efficient delivery of natural gas to homes and businesses across the nation. AGA: 1) Conducts programs and develops standards to help enhance the safe delivery of natural gas to consumers; 2) Advocates for natural gas industry issues, regulatory constructs and business models that are priorities for the industry; 3) Promotes growth in the efficient use of natural gas by emphasizing before a variety of stakeholders the benefits of clean, abundant natural gas as part of the solution to the nation's energy and environmental goals; 4) Facilitates the exchange of information and improvement of performance metrics to help members achieve operational excellence; 5) Helps members manage and respond to the energy needs of customers, regulatory

trends, natural gas or capital market issues and emerging technologies; 6) Collects, analyzes and disseminates information to opinion leaders, policy makers and consumers about the benefits provided by energy utilities and the natural gas industry; and 7) Encourages the development, commercialization, and regulatory acceptance of natural gas end-use technologies.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Northeast Gas Association (Eversource President of Gas Operations William Akley, and Werner J. Schweiger, Executive Vice President & Chief Operating Officer serve as board members)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The Northeast Gas Association (NGA) is a regional trade association that focuses on education and training, technology research and development, operations, planning, and increasing public awareness of natural gas in the Northeast U.S. Its mission is to promote and enhance the safe, reliable, efficient, and environmentally responsible delivery of natural gas to customers in the region, and to advocate for the industry from production to delivery. NGA represents natural gas distribution companies, transmission companies, liquefied natural gas importers, and associate member companies. These companies provide natural gas to over 10 million customers in nine states (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont).

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Electric Power Research Institute (EPRI) (2019 member)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The Electric Power Research Institute, Inc. (EPRI) conducts research and development relating to the generation, delivery and use of electricity for the benefit of the public. EPRI brings together scientists and engineers as well as experts from academia and the industry to help address challenges in electricity. Its research provides both short- and

long-term solutions that enable the transformation of power systems to be more flexible, resilient and connected. Its ultimate goal is to provide society with safe, reliable, affordable and environmentally responsible electricity.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences

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Trade association

New England Women in Energy and the Environment (Catherine Finneran, Eversource's Vice President, Sustainability and Environmental Affairs serves on the Board of Directors and Membership Chair, and Edna Karanian, Eversource's Director of Gas Supply, is on the Advisory Board).

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

New England Women in Energy and the Environment (NEWIEE) harnesses the passion, intelligence and leadership experience of New England women to promote and encourage public interest in the energy and the environment sectors. Comprised of members across the public and private sectors, as well as various age groups, NEWIEE is also a stimulating forum for networking, sharing of expertise and information, and mentoring. It is the goal of NEWIEE to foster a dynamic and enthusiastic environment for those who care about energy and environmental issues in order to encourage the development of creative solutions to energy and environmental issues.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource including regulatory developments and industry trends.

Trade association

Electric Utility Industry Sustainable Supply Chain Alliance (EUISSCA) utility member

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The Alliance aspires to be known as the leader in establishing a robust and sustainable electric utility industry supply chain including advancing the maturity level of our members and stakeholders. The Alliance's mission is to work with its members and interested stakeholders to minimize the impacts on the environment of our supply chain operations. This will be accomplished by: 1) Developing voluntary consensus standards and frameworks; 2) Working with stakeholders and value chain partners to identify and

exchange successful practices; and 3) Delivering tangible business value to member organizations through the application of sustainability practices.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

Trade association

Boston Green Ribbon Commission (Penni McLean-Conner, Eversource's Chief Customer Officer and Senior Vice President, member)

Is your position on climate change consistent with theirs?

Consistent

Please explain the trade association's position

The mission of the Green Ribbon Commission (GRC) is to convene leaders from Boston's key sectors to support the outcomes of the City's Climate Action Plan. Boston is committed to reducing greenhouse gas emissions 25 percent (over 2005) by 2020 and achieving net zero carbon energy sources by 2050, even as the city grows. City leaders have also pledged to prepare, in numerous ways, for the effects of climate change.

The GRC provides a forum for representatives of the private sector and the City to discuss, plan and act on the opportunities, challenges, ideas, and requirements of preparing Boston to meet the imperatives of climate change.

How have you influenced, or are you attempting to influence their position?

Actively participate in meetings and work with organization to understand its position on various issues that impact Eversource in order to reconcile differences.

C12.3d

(C12.3d) Do you publicly disclose a list of all research organizations that you fund?

No

C12.3e

(C12.3e) Provide details of the other engagement activities that you undertake.

Eversource strongly supports customer energy efficiency programs and funding mechanisms to make these programs consistently and widely available. Eversource is a strong proponent of policies and programs to promote electric and natural gas vehicles. Since 2012, Eversource has partnered with volunteer municipalities and businesses on research to understand charging station installation requirements, driver charging habits and potential future electric system requirements. We are using the research to address identified challenges and develop

mitigation strategies to better serve our customers. We host and participate in several EV Ride & Drive events, giving customers a chance to experience EVs on the road, and sponsor EV dealer training. Our EV resource page on Eversource.com offers fast access to EV information and resources. We host and participate in several EV Ride & Drive events, giving customers a chance to experience EVs on the road, and sponsor EV dealer training. Our EV resource page on Eversource.com offers fast access to EV information and resources.

All of the states that we serve are pursuing comprehensive plans that include the advancement of EVs. Connecticut and Massachusetts are two of eight states that signed the State Zero-Emission Vehicle Program Memorandum of Understanding in 2013, with a combined two-state target of having 450,000 zero-emission vehicles on the road by 2025, along with the supporting infrastructure. In Connecticut, we are working with the Department of Energy and Environmental Protection (DEEP) on programs to support EV adoption and development of EV charging infrastructure. Details on these programs can be found at EV Connecticut. Eversource funding for DEEP programs has included the installation of publicly accessible DC Fast Chargers and grants to increase the number of publicly available EV charging stations.

In Massachusetts, Eversource serves as a commissioner on the Commonwealth's Zero Emission Vehicle Commission, which studies the economic and environmental benefits and costs of increased use of zero emission vehicles. We are working with the Department of Energy Resources on programs to advance the EV market through a combination of studies, outreach and education. Additionally, in 2019, we announced a partnership with Mass Audubon to install EV charging stations at seven of the conservation nonprofit's network of wildlife sanctuaries.

In New Hampshire, Eversource serves as a member of the Electric Vehicle Charging Stations Infrastructure Commission, to study and recommend policy on the development of EV charging stations throughout the state. In 2019, Eversource, as part of a joint effort with the state's other utilities, proposed a plan for creating a DC Fast Charging network across New Hampshire's travel corridors to bolster New Hampshire's tourism industry and bring more business to the local economy while providing environmental and sustainability benefits.

Eversource has participated in climate adaptation planning in all three states in which it operates (CT, MA and NH). A recent example of an Eversource adaptation measure was its construction of a uniquely designed substation to meet the much-needed distribution capacity in the South Boston Waterfront area of Massachusetts. The $131 million substation is on a 25,000 square foot concrete and steel platform that is 15 feet above ground to withstand the worst storms or tidal surges.

The Eversource Energy Center at the University of Connecticut (UConn) is an innovative energy company and university partnership. Our state-of-the-art research, technology and software are solving real-world challenges for our customers where weather, climate and energy intersect. The Eversource Energy Center is establishing strategic partnerships nationally in the areas of grid resilience, security and modernization. With the Electric Power Research Institute, we are developing a collaboration on storm damage recovery and situational awareness. With the Gas Technology Institute, we are formulating research topics on remote sensing–based monitoring of natural gas and electrical infrastructure, electrical power line systems safety and automated detection algorithms, and post-event evaluations of natural force threats. Within UConn, we work with the Connecticut Institute for Resilience and Climate Adaptation to address the "Sustainability and Resilience" theme of the university's academic plan.

C12.3f

(C12.3f) What processes do you have in place to ensure that all of your direct and indirect activities that influence policy are consistent with your overall climate change strategy?

Eversource's regulatory and government affairs departments monitor and engage regulators on current and upcoming climate and energy related legislation in the states where Eversource operates and on the federal level.

C12.4

(C12.4) Have you published information about your organization's response to climate change and GHG emissions performance for this reporting year in places other than in your CDP response? If so, please attach the publication(s).

Publication

In mainstream reports

Status

Complete

Attach the document

2019 Annual Report.pdf

Page/Section reference

Page opposite inside back cover (Governance); pages 2-4 (Strategy); pages 13-17 (Risk Factors)

Content elements

Governance
Strategy
Risks & opportunities

Comment

2019 Annual Report

Publication

In other regulatory filings

Status

Complete

Attach the document

2020 Proxy Statement.pdf

Page/Section reference

Page 19 (Meetings of the Board and its Committees); pages 12-26 (Governance); and pages 21-25 (Eversource Sustainability/ESG section involves strategy and shareholder engagement).

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Other metrics

Comment

2020 Proxy Statement

Publication

In voluntary communications

Status

Complete

Attach the document

2019 Sustainability Report.pdf

Page/Section reference

Entire report and particularly Page 3, 6, 63, 65 (Governance); pages 3, 6, 14, 25 (Strategy); pages 25, 65 (Risks & opportunities); pages 15, 19 (Emissions figures); page 14 (Emissions targets); and pages 33, 35, 95, 99 (Other metrics).

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets
Other metrics

Comment

2019 Sustainability Report

Publication

In voluntary communications

Status

Complete

Attach the document

Commitment to Environmental Sustainability and Carbon Neutrality.pdf

Page/Section reference

Page 2 (Governance); pages 1, 2 (Strategy); pages 1, 2 (Risks & opportunities); pages 1, 2 (Emissions targets).

Content elements

Governance
Strategy
Risks & opportunities
Emission targets

Comment

Commitment to Environmental Sustainability and Carbon Neutrality

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Publication

In voluntary communications

Status

Complete

Attach the document

A Sustainable Investment Opportunity.pdf

Page/Section reference

Pages 43-45(Governance); pages 8, 9, 12,16, 19-22 (Strategy); pages 8, 9, 12, 28; page 8 (Emissions target).

Content elements

Governance
Strategy
Risks & opportunities
Emissions figures
Emission targets
Other metrics

Comment

A Sustainable Investment Opportunity - presentation available online for investors and others.

C15. Signoff

C-FI

(C-FI) Use this field to provide any additional information or context that you feel is relevant to your organization's response. Please note that this field is optional and is not scored.

C15.1

(C15.1) Provide details for the person that has signed off (approved) your CDP climate change response.

	Job title	Corresponding job category
Row 1	Manager, Investor Relations	Other, please specify Investor Relations

Submit your response

In which language are you submitting your response?

Please confirm how your response should be handled by CDP

	I am submitting to	Public or Non-Public Submission
I am submitting my response		Public

Please confirm below