

Exelon Corporation

Edison Electric Institute (EEI) / American Gas Association (AGA) Environment, Social and Governance (ESG) Sustainability Reporting Template

Exelon issued its ninth [corporate sustainability report](#) (CSR) in July 2020 to report on 2019 sustainability results. Exelon's CSR is prepared in accordance with the Global Reporting Initiative (GRI) Standards and its Electric Utility Sector Supplement. The Exelon CSR is the primary tool utilized by Exelon to publicly discuss Exelon's sustainability strategy and performance, and to provide ESG data to relevant stakeholders.

As part of our industry's effort to communicate common ESG metrics, Exelon is providing this template using the EEI/AGA ESG reporting framework. The template pulls data from Exelon's primary sustainability reporting tools, including Exelon's CSR, our [CDP Climate Change Survey Response](#), our [CDP Water Survey Response](#), public reporting to government agencies, and third-party verifications of [Exelon's corporate GHG emission inventory \(Scope 1 and 2\)](#); [Exelon's relevant supply chain GHG emissions \(Scope 3\)](#); and, [Exelon Generation's air emission intensity \(CO₂, NO_x and SO₂\)](#).

Exelon's Business Model, Regulatory Framework and Business Strategy

Exelon Corporation's business model is a competitive-integrated model. Exelon's six utility companies serve customers in [major metropolitan areas](#) of the Mid-Atlantic and Midwest states with all operating T&D systems for electricity (serving 9 million electric customers), and three of the six (BGE, Delmarva and PECO) also operating natural gas distribution systems (serving 1.4 million natural gas customers).

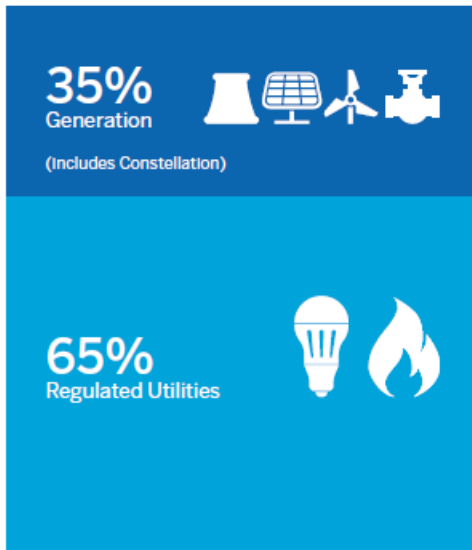
Exelon Generation operates in competitive markets. Pursuant to customer choice laws enacted in the 1990s in states where Exelon utilities are located, Exelon Generation is not affiliated with Exelon's utilities and is not required to meet or plan for the utility companies' customer energy supply. Rather, Exelon's utilities are required to competitively buy, at least cost, electricity for any customers that have not elected a competitive energy supplier. Constellation is eligible to bid on this supply, like any other competitive supplier. The state regulatory frameworks that govern our utilities and Exelon's resulting business model are important considerations when reviewing Exelon's sustainability metrics and business strategy versus vertically-integrated utilities where the distribution utility also owns all, or most, of the power generation resources that supply all of the vertically-integrated utility's customers.

Exelon Generation is the fourth largest generator of electric power in the United States and is the nation's [largest generator of zero-carbon electricity](#), with an owned-generation carbon intensity that is 90 percent lower than the national average. Constellation is Exelon Generation's competitive energy sales and services group, with a presence in the lower 48 states.



BUSINESS COMPOSITION BY GAAP NET INCOME

As of December 31, 2019



Unlike vertically-integrated utilities, Exelon's business model allows us to invest across the energy value chain where we can achieve the greatest returns for our shareholders and where we can best serve the interests of our customers with regard to clean, affordable and reliable energy, delivery systems and products and services. In recent years, our focus has been on making [investments in our regulated utilities business](#), with \$5.5 billion invested in 2019, and plans to invest approximately \$26 billion in our utilities from 2020 through 2023. As can be seen in the adjacent image, this pivot to utilities is reflected in Exelon's GAAP net income.

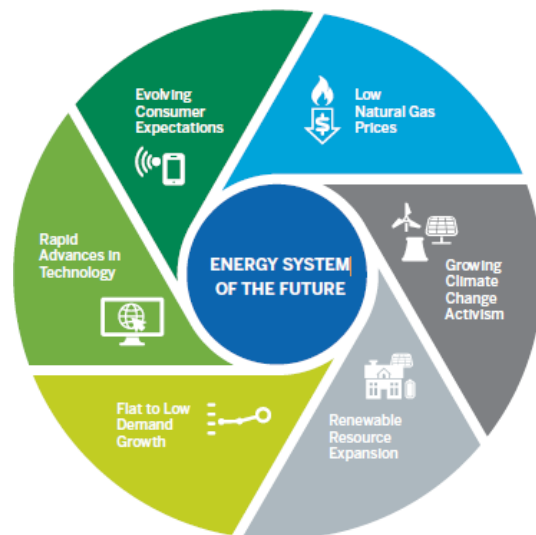
Exelon's business strategy is informed by our views on the [durable trends in our industry](#) that are shaping the future energy landscape (see below image). Durable trends are circumstances that we see as having a lasting effect on companies in our industry over the mid- to long-term.

Led by our Chief Sustainability Officer and Senior Vice President of Corporate Strategy, Innovation and Sustainability, our sustainability team sits within our corporate strategy function, ensuring that sustainability

considerations and objectives are part of our overall corporate business strategy.

The Corporate Governance Committee of the Exelon Board of Directors oversees specific areas of sustainability strategy and performance. A listing of Corporate Governance Committee members and the Corporate Governance Committee Charter are available on our [corporate website](#).

Exelon's executive team and our Board of Directors regularly discuss what is occurring in our industry and how Exelon's business strategy can and should be implemented and evolved in consideration of the durable industry trends and opportunities that we see in our industry.



Based upon our evaluation of opportunities, and in consideration of the durable industry trends that we see, Exelon has developed a business strategy with four key focus areas. These include:

- [Evolving our business models and regulatory and market structures](#)
- [Advancing a culture of technology and innovation](#)
- [Maintaining operational excellence, productivity and efficiency](#)
- [Investing in our markets at attractive returns](#)

Each of these focus areas, including 2019 performance results and metrics, is discussed in detail in the [2019 Exelon CSR](#).

As Exelon implements its business strategy, we maintain a strong focus on effective corporate governance, including a strong commitment to [Ethics](#) and [Risk Management](#).

| HOW EXELON'S STRATEGY CREATES CUSTOMER VALUE | |
|--|--|
| FOCUS AREA Evolving our business models and regulatory and market structures | HOW? <ul style="list-style-type: none"> • Adapting our businesses to meet customer needs and interests in energy use and management • Supporting updated regulations that enable clean energy |
| FOCUS AREA Advancing a culture of technology and innovation | HOW? <ul style="list-style-type: none"> • Integrating innovation throughout our business to achieve efficiency and resilience through technology |
| FOCUS AREA Maintaining operational excellence, productivity and efficiency | HOW? <ul style="list-style-type: none"> • Operating safely for our customers, employees and communities • Maintaining affordability and reliability, proven by high customer satisfaction • Maximizing resource efficiency |
| FOCUS AREA Investing in our markets at attractive returns | HOW? <ul style="list-style-type: none"> • Investing in reliable electric and gas systems • Enabling a smart grid that embraces technology • Prioritizing low-carbon energy and solutions |

Exelon Utilities' Strategy

We are pursuing an [Exelon Utilities \(EU\) strategy](#) that embraces the changing role that our utilities can play in creating value for customers and communities. We are harnessing the power of digital communication, remote sensing, distributed and artificial intelligence, distributed energy resources (DER) and the platform of smart infrastructure to reinforce human connections and serve a hierarchy of community needs ranging from the traditional basic T&D services to new uses for utility systems enabled by technology.

This requires investment and focus in four key connected community areas: (1) reliability and resilience, (2) customer experience (3) advancing clean and affordable energy choices, providing increased access to DER and promoting decarbonization and beneficial electrification (4) supporting communities. As we work towards our EU strategic vision, we are collaborating with stakeholders and policymakers on regulatory matters to achieve the benefits of Exelon Utilities vision.

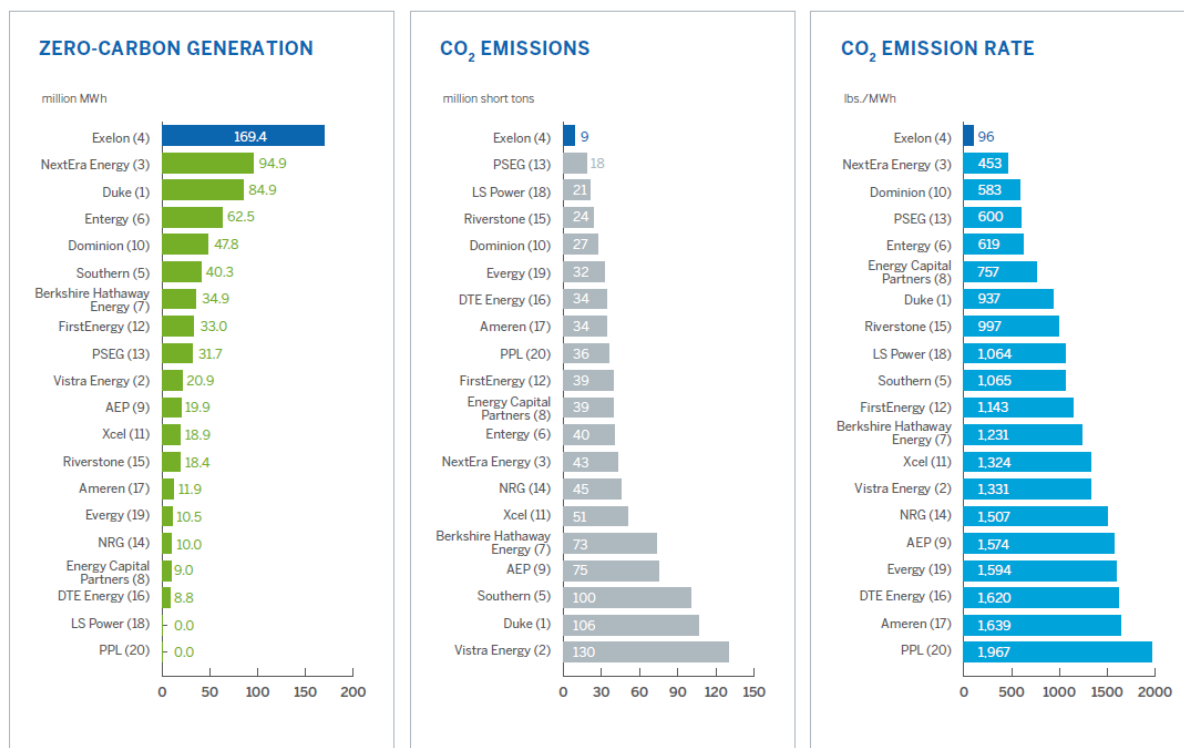
Over the next decade, we will move toward achieving similar outcomes for all of our customers and communities, but with tailored utility-by-utility implementation based on local and state circumstances.

Rising to the Challenge of Climate Change

The 2019 Exelon CSR ([pp. 48-67](#)) describes Exelon's efforts to manage and reduce GHG emissions, including our views on needed public policy reforms. Exelon is in a unique position in our industry, since the majority of the electricity produced by Exelon is zero-carbon power from nuclear and renewable energy resources.

Exelon is the nation's largest zero-carbon generator, producing nearly two times more zero-carbon electricity than our next largest generation competitor (see image below). Our overall emissions and emissions rate remain lower than our competitors as well, with Exelon Generation's owned power generation carbon intensity being 90 percent lower than the industry average.

CARBON PERFORMANCE OF LARGEST 20 INVESTOR-OWNED POWER PRODUCERS



Source: Benchmarking Air Emissions of the 100 Largest Electric Power Producers in the United States, M.J. Bradley & Associates (July 2020). Data used in the benchmarking report was calendar year 2018. Number in parenthesis by company name is the company generation ranking in 2018. E.g., Exelon was the fourth largest investor-owned producer in 2018.

Our two primary businesses —Exelon Utilities (regulated electric and natural gas utilities) and Exelon Generation (merchant electricity generation)—have been working for almost two decades to reduce GHG emissions and position the businesses, and our customers, for success in a low carbon economy. Exelon’s 2019 CSR reporting on climate has been [aligned with the recommendations of the Taskforce on Climate-related Financial Disclosure \(TCFD\)](#) as seen in the adjacent image.

Exelon also [performs scenario analyses](#) to better understand how climate change could affect the energy economy, customers and the communities where we operate. We have examined a number of climate scenarios and how they could potentially impact our business (see below). Across any potential solution, it is clear that zero-carbon solutions are necessary to avert the most severe impacts of climate change.

| EXELON'S CLIMATE CHANGE RESPONSE | |
|---|--|
| GOVERNANCE Oversight of climate-related risks and opportunities | Exelon maintains a Climate Change Policy to establish support for actions at the highest level of the company and to ensure employees understand the company's position on the issue and our areas of focus. |
| STRATEGY Advancing business strategy through climate change scenario analysis | As part of the electric sector, we recognize that issues of climate change are fundamental to our business and are incorporating them into our considerations for short-, mid- and long-term planning. |
| RISK MANAGEMENT Identifying, assessing and managing climate-related risks | Exelon will continue to incorporate climate change issues into our existing, already robust, risk management and systems planning processes. |
| METRICS AND TARGETS Metrics used to assess our efforts are in with our strategy | Exelon will continue to measure our GHG emissions, establish long-term goals and report on relevant performance indicators. |

CLIMATE SCENARIOS UNDER EXPLORATION BY EXELON

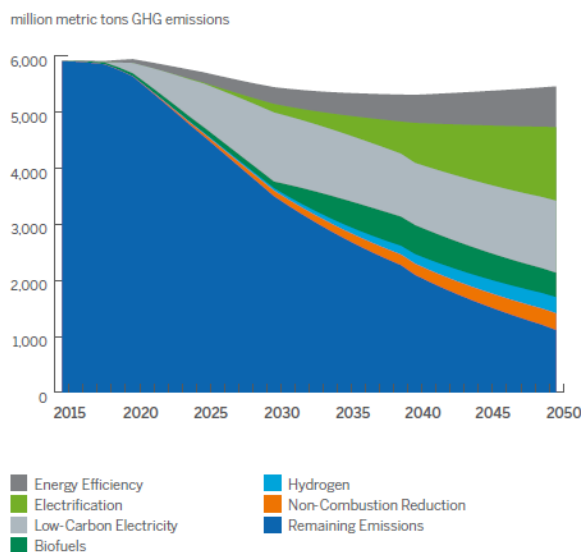
| | Business As Usual | 80% Reduction | Carbon Neutral | Carbon Negative |
|---------------------------------|---|---|--|---|
| IPCC Data Set | RCP 8.5 4C by 2100 | RCP 4.5 2C by 2100 | RCP 4.5 2C by 2100 | RCP 4.5 2C by 2100 |
| Level of GHG Mitigation by 2050 | Current or proposed regulations only | High electrification with limited carbon capture and Storage (CCS) & hydrogen (H2)/biofuels and 95% emissions reduction for the electric sector | High electrification with wider adoption of Industrial CCS, H2 and/or biofuels and a Zero-carbon electric generation | Carbon Neutral scenario plus biofuels with CCS & Direct Air Capture (DAC) |
| Sensitivities | With and without physical effects of climate change temperature impacts | Same demand side with electric generation goal achieved with renewables only | Same demand side with electric generation goal achieved through 100 percent renewable energy | High DAC scenario, off-grid where electric sector takes on less burden |

In order to achieve the necessary reductions of carbon emissions, all sectors of the economy must decarbonize. For Exelon, a company that serves three-fourths of the Fortune 100 and does business in 48 states, it is even more critical to take an economy-wide approach. The graphic below displays an example of a potential energy system transition pathway necessary to achieve a 2C outcome by 2050.

EXPLORING ENERGY SYSTEM TRANSITIONS

We looked at the U.S. and all sectors of the economy to examine potential implications of decarbonization. Below is a representative example of a potential energy system transition pathway to achieve a 2C by 2050 outcome, with representative interim 2030 actions that would be needed to achieve deep decarbonization across the economy by 2050.

Needed Emissions Reduction Over Time



Needed Adoption Rates by 2030 for a Decarbonized Future

| Examples of levels and types of actions needed under each category (does not show all actions) | Current | 2030 |
|--|---------|-------|
| Residential Efficient Building Shell | unknown | ~100% |
| Commercial Efficient Building Shell | unknown | 60% |
| Light Duty Vehicle (LDV) Electrification | <1% | 60% |
| Medium Duty Vehicle (MDV) Electrification | ~0% | 30% |
| Heavy Duty Vehicle (HDV) Electrification | ~0% | 10% |
| Residential Heat Pump Conversion | 18% | 60% |
| Commercial Heat Pump Conversion | 10% | 30% |
| Industry Electrification | 0% | 15% |
| % Zero Carbon Electric Generation | 12% | ~60% |
| Industrial Carbon Capture and Storage (CCS) | 30 | 50 |
| Bio-gas Blending in Natural Gas Supply | 3.8% | 8–50% |
| % Hydrogen (H2) in Transportation | 0% | 2% |

In response to the insights from various scenarios and considering the current business and regulatory environment, Exelon is currently focused on integrating the adjacent short-, mid-, and long-term climate change imperatives into our overall business strategy.

CLIMATE CHANGE CONSIDERATIONS IN EXELON'S BUSINESS STRATEGY

| Timeframe | Mitigation Action | Resiliency Action |
|---------------------------|---|---|
| Short-term (through 2025) | Reduce emissions within our operations and the electric sector by maximizing the amount of zero-carbon generation that we supply to the grid (2022 GHG Reduction goal and Annual Nuclear Capacity Factor Target to maximize zero-carbon generation). | Invest \$26 billion from 2020–2023 in utility infrastructure to improve reliability and resiliency in response to emerging climate change considerations. This includes developing Green Power Connection approaches and platforms to assist and enable deployment of distributed residential and commercial renewable energy in our utility service areas. |
| Mid-term (2025–2030) | Drive electrification of transportation in our service territories, such as by installing charging infrastructure and metering options. Support the establishment of economy-wide carbon policy to enable the transition of the electric grid to be zero-carbon. See the Beneficial Electrification section of this report for more information. | Improve the connection between climate projections and infrastructure performance and support the evolution of sector infrastructure standards to better reflect that connection. See the Public Policy section for more information on our efforts with peer and industry groups and state and federal agencies to drive consensus-driven approaches. |
| Long-term (2030–2050) | Continue to monitor the business and climate environment to maximize our business development and investments to drive GHG mitigation and physical climate change adaptation in the most cost-effective manner for the communities that we serve. Specifically, invest in R&D and start-up businesses that support a transition to a low-carbon and climate change resilient economy. This will be measured by our 2c2i program goal for climate impact investment discussed further in the Partnering with Our Communities section of this report. | |

In 2017, Exelon announced its third [corporate GHG emission reduction goal](#), having achieved its EPA Climate Leaders goal in 2008 and its [Exelon 2020](#) GHG reduction goal seven years early in 2013. Our latest corporate goal is focused on reduction operations-driven GHG emissions by 15 percent by 2022. Emission reductions are targeted at stationary combustion sources, fleet vehicles, and fugitive emissions of SF6 from electrical equipment and methane emissions from natural gas systems.

The [Natural Gas Emissions Reductions](#) section in the 2019 CSR describes the three natural gas systems operated by BGE, DPL and PECO. Included in this case study are hyperlinks to papers that describe: 1) main and service by company inventories; 2) pipe replacement programs; 3) leak detection and repair practices; and, 4) system GHG emission intensity and tracking against Exelon's operation's driven GHG reduction goal.

The Exelon CSR also provides a complete [accounting](#) of Exelon's 3rd party-verified GHG emission inventory based on Scopes 1, 2 and relevant Scope 3 emissions, which includes two different categories associated with "purchased power." One category includes the emissions associated with power purchased by Constellation as part of its generation supply mix (called "Long-term and Spot Market Power Purchase for Resale - Fossil" in our GHG inventory). The second category (called "Electricity Distributed by Our Utilities") includes only emissions from electricity that is purchased and delivered by our utilities to customers who have not selected an alternative, competitive energy supplier. Please see the table on the next page to find 2017-2019 emissions in both categories related to "purchased power."

Segmenting our Scope 3 GHG emissions associated with "purchased power" into these two categories is necessary since Exelon utilizes a competitive integrated business model. Specifically, Constellation sells power produced or purchased by Exelon Generation in competitive markets and Exelon Generation is not responsible for meeting Exelon utility customer electricity demand. As utilities operating in customer choice states, Exelon's utility companies only buy electricity for customers that have not selected a competitive energy supplier. To acquire energy for customers that have not selected a competitive energy supplier, Exelon's utilities typically utilize competitive bidding processes to procure energy, at least cost pursuant to state requirements that allow for the choice of multiple energy suppliers which may include Constellation as one of the utility's suppliers of "default" energy for the term of the supply agreement. This is a very different business model than the traditional "vertically-integrated" utility model under which the electric utility owns the generation that supplies 100 percent of its distribution system customers. Therefore, the concept, and accounting for, "purchased power" differ between business models. [See the image below for a depiction of our business and emissions accounting.](#)

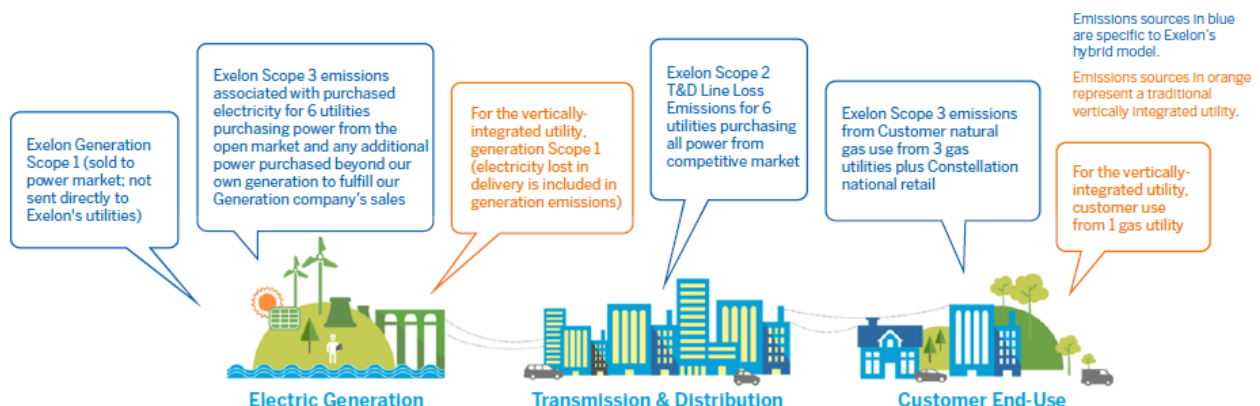


TABLE 1: EXELON CORPORATION GHG INVENTORY BREAKDOWN

Equity-share Boundary, showing both
Location-based and Market-based for
Scope 2 Accounting

Total Exelon GHG Emissions

| thousand metric tons CO ₂ e | 2017 | 2018 | 2019 |
|--|----------------|----------------|----------------|
| Scope 1 | 10,200 | 9,526 | 9,395 |
| Scope 2 (Location-based — As Delivered) | 6,521 | 6,120 | 6,103 |
| Total Scope 1 & 2, Location-based | 16,721 | 15,646 | 15,497 |
| Scope 2 (Net of Zero-carbon Electricity Purchases) | 5,037 | 4,817 | 4,914 |
| Total Scope 1 & 2, Market-based | 15,926 | 14,779 | 15,141 |
| Supplemental Biomass | 688 | 436 | 833 |
| Relevant Scope 3 | 195,220 | 197,376 | 180,732 |

Customer-Driven Emissions

| thousand metric tons CO ₂ e | 2017 | 2018 | 2019 |
|---|----------------|----------------|----------------|
| Scope 1: Direct Emissions | | | |
| Stationary Combustion | 9,545 | 8,862 | 8,581 |
| Upstream Gas (combustion & fugitive) ¹ | 0 | 14 | 215 |
| Total Customer-Driven Scope 1 | 9,545 | 8,876 | 8,796 |
| Scope 2: Indirect Emissions | | | |
| T&D Line Losses ² | 6,016 | 5,596 | 5,580 |
| Muddy Run Pumping Power ³ | 187 | 179 | 159 |
| Upstream Gas (purchased electric) | 0 | 1 | 3 |
| Total Customer-Driven Scope 2 (Location-based, As-Delivered) | 6,203 | 5,777 | 5,742 |
| Total Customer-Driven Scope 2 (Net of Zero-carbon Purchases) | 4,883 | 4,628 | 4,725 |
| Total Customer-Driven Scope 1 & 2 Emissions | 14,428 | 13,504 | 13,521 |
| Supplemental Biomass (Generation) | 681 | 428 | 825 |
| Relevant Scope 3: Customer-Driven Supply Chain Emissions⁴ | 195,143 | 197,276 | 180,640 |
| Longterm and Spot Market Power Purchases For Resale — Fossil ⁵ | 17,693 | 21,022 | 18,864 |
| Natural Gas Sold by Constellation New Energy (as used by customer) | 91,019 | 87,548 | 76,581 |
| Electricity Distributed by our Utilities ⁶ | 75,316 | 76,991 | 73,708 |
| Natural Gas Distributed by our Utilities (as used) ⁷ | 10,759 | 11,257 | 11,109 |
| Heating and Cooling Equipment Operated for Others | 356 | 458 | 378 |

1 Upstream Gas accounting refined to align with Argonne National Labs GREET Model estimations.

2 T&D Line Loss emissions adjusted to reflect establishment of location-based Scope 2 accounting.

3 Muddy Run Pumping Power emissions adjusted to reflect establishment of location-based Scope 2 accounting.

4 There are 17 potential Scope 3 categories. Exelon currently tracks and reports those most pertinent to our business and where we can most effectively take action today. Additional information on Scope 3 accounting can be found at <http://ghgprotocol.org/scope-3-technical-calculation-guidance>.

Operations-Driven Emissions

| thousand metric tons CO ₂ e | 2017 | 2018 | 2019 |
|---|------------|--------------------|------------|
| Scope 1: Direct Emissions | | | |
| Stationary Combustion — Support Operations | 79 | 85 | 78 |
| Natural Gas Distribution & LNG Import (Fugitive Methane) | 388 | 369 | 348 |
| Electrical Equipment (Fugitive SF ₆) | 81 | 87 | 61 |
| Fugitive Refrigerants, Bulk CO ₂ , Coal Pile | 8 | 8 | 15 |
| Vehicle Fleet Operations | 100 | 100 | 97 |
| Total Operations-Driven Scope 1 | 656 | 650 | 599 |
| Scope 2: Indirect Emissions | | | |
| Building Electric, District Heating and Cooling | 140 | 131 | 124 |
| Grid Supplied Plant Electric Use | 178 | 213 | 237 |
| Total Operations-Driven Scope 2 (Location-based, As-Delivered) | 318 | 343 | 361 |
| Total Operations-Driven Scope 2 (Net of Zero-carbon Purchases) | 154 | 190 | 189 |
| Total Operations-Driven Scope 1 & 2 Emissions | 810 | 840 | 787 |
| Supplemental Biogas (Mobile) | 7 | 8 | 8 |
| Relevant Scope 3: Operations-Driven Supply Chain Emissions⁴ | 77 | 100 | 92 |
| Employee Business Travel ⁸ | 30 | 29 | 29 |
| Waste Generated in Activities | 47 | 71 | 63 |
| Employee Commute | | Not Yet Quantified | |
| Purchased Goods and Services | | Not Yet Quantified | |
| Capital Goods | | Not Yet Quantified | |

5 Includes Owned and PPA Renewables for which attributes may have been sold as RECs or Retired for RPS obligations.

6 Exelon Utilities are required to buy from the market - thus these emissions are not associated with Exelon's Generation fleet.

7 These are emissions associated with the end use of the natural gas as delivered.

8 Scope 3 Business Travel emissions only — owned corporate aircraft is included under Scope 1 mobile emissions.

Exelon By the Numbers

| | | | |
|--|---|--|---|
| 32,713 employees | 14 consecutive years on the Dow Jones Sustainability North America Index | 11,153 miles of electric transmission lines | 31,594 MW owned U.S. generating capacity |
| 9 million electric utility customers | 27th among 922 companies and 2nd among utility companies, as ranked by JUST Capital | 149,945 miles of electric distribution lines | Almost two times more zero-carbon generation (in MWh) than the next largest producer |
| 1.4 million natural gas customers | | 30,816 miles of natural gas transmission, distribution and service lines | 86.9 million metric tons of GHG emissions avoided through Exelon zero-carbon generation |
| 2 million competitive retail customers | One of the World's Most Innovative Companies, as named by Fast Company | 25,590 square miles of combined utility service area | 8.75 million electric smart meters 93.4 percent of customers |
| 21.8 million people in utility service areas | 22.3 million MWh saved through utility customer energy efficiency programs | 586 MW of solar in 14 states and the District of Columbia at 432 installations | 1.35 million advanced gas meters 96.4 percent of customers |
| \$1.78 trillion of gross domestic product served by utilities | | 776 MW of wind in 11 states with 721 turbines at 24 locations | |

Key Resource Links:

- **Exelon Investor Relations:** <http://www.exeloncorp.com/investor-relations>
- **Exelon Corporate Governance:** <http://www.exeloncorp.com/leadership-and-governance/governance-overview>
- **Exelon Code of Business Conduct:**
http://www.exeloncorp.com/company/Documents/Exelon_COBC_10122015_72ppi_NoLinksPages.pdf
- **Exelon CSR:** [https://www.exeloncorp.com/sustainability/Documents/dwnld_Exelon_CSR%20\(1\).pdf](https://www.exeloncorp.com/sustainability/Documents/dwnld_Exelon_CSR%20(1).pdf)
- **Exelon Scope 1 and 2 GHG Emission Verification Statement:**
http://www.exeloncorp.com/sustainability/Documents/TCR_Verification_Statement.pdf
- **Exelon Scope 3 GHG Emission Verification Statement:**
<http://www.exeloncorp.com/sustainability/Documents/Exelon%20Scope%203%20GHG%20Verification.pdf>
- **Exelon Generation CO₂, NO_x and SO₂ Emission Intensity Verification Statement:**
<http://www.exeloncorp.com/sustainability/Documents/Exelon%20Generation%20Air%20Emission%20Intensity%20Verification.pdf>
- **Exelon Environmental Management System (EMS) Certification:**
<http://www.exeloncorp.com/sustainability/Documents/Exelon-Environmental-Management-System-certification.pdf>
- **CDP Climate Change Survey:**
http://www.exeloncorp.com/sustainability/Documents/Exelon_Investor_CDP.pdf
- **CDP Water Survey:**
http://www.exeloncorp.com/sustainability/Documents/Exelon_CDP_Water_Response.pdf
- **Exelon Environment Policy:** <https://www.exeloncorp.com/sustainability/Documents/Exelon-Environment-Policy.pdf>
- **Exelon Water Policy:** <https://www.exeloncorp.com/sustainability/Documents/Exelon-Water-Resource-Management-Corporate-Policy.pdf>
- **Exelon Biodiversity Policy:** <https://www.exeloncorp.com/sustainability/Documents/Exelon-Biodiversity-and-Habitat-Corporate-Policy.pdf>
- **Exelon Safety Policy:** <https://www.exeloncorp.com/sustainability/Documents/Exelon-Corporate-Safety-Policy.pdf>
- **Exelon Climate Change Policy:**
<https://www.exeloncorp.com/sustainability/Documents/Exelon-Climate-Change-Corporate-Policy.pdf>



ESG/Sustainability Template – Quantitative Information

Parent Company:

Operating Company(s):

Business Type(s):

State(s) of Operation:

State(s) with RPS Programs:

Regulatory Environment:

Report Date:

Exelon Corporation

Exelon Generation, Atlantic City Electric, Baltimore Gas & Electric, Delmarva Power, Commonwealth Edison, PECO Energy, Pepco

Competitive Integrated

[See Map Page 11 Exelon 2019 CSR for Utility and Generation Company States and Assets](#)

[See RPS Table Page 76 Exelon 2019 CSR](#)

Regulated Utilities; Competitive Generation

Report completed August 15, 2020

| Ref. No. | Refer to Comment Field for Additional Metric Considerations and Hyperlinks | 2017 | 2018 | 2019 | Comments, Links, Additional Information, and Notes |
|----------|--|------|------|------|--|
|----------|--|------|------|------|--|

| Portfolio | | | | | |
|------------|--|-------------|-------------|-------------|---|
| 1 | Owned Nameplate Generation Capacity at end of year (MW) | 35,168 | 32,463 | 31,594 | Exelon CSR (2017, 2018, 2019) Exelon-Owned Capacity and Generation Tables |
| 1.1 | Coal | 0 | 0 | 0 | 2017 Other = 1,778MW of oil/gas and 10MW battery. 2018 Other = 1,737 MW of oil/gas and 10MW battery. 2019 Other = 1,896 MW of oil/gas and 9 MW battery. |
| 1.2 | Natural Gas | 8,719 | 6,586 | 6,592 | |
| 1.3 | Nuclear | 20,310 | 19,713 | 18,873 | |
| 1.4 | Petroleum | 1,104 | 1,142 | 1,103 | |
| 1.5 | Total Renewable Energy Resources | | | | |
| 1.5.1 | Biomass/Biogas | 112 | 124 | 117 | |
| 1.5.2 | Geothermal | 0 | 0 | 0 | |
| 1.5.3 | Hydroelectric | 1,642 | 1,642 | 1,642 | |
| 1.5.4 | Solar | 532 | 564 | 586 | |
| 1.5.5 | Wind | 961 | 945 | 776 | |
| 1.6 | Other | 1,788 | 1,747 | 1,905 | |
| 2.i | Owned Net Generation for the data year (MWh) | 195,307,000 | 194,224,000 | 189,463,000 | Exelon CSR (2017, 2018, 2019) Exelon-Owned Capacity and Generation Tables |
| 2.1.i | Coal | 0 | 0 | 0 | |
| 2.2.i | Natural Gas | 22,753,000 | 19,834,000 | 20,738,000 | |
| 2.3.i | Nuclear | 164,993,000 | 166,569,000 | 162,088,000 | |
| 2.4.i | Petroleum | 16,000 | 112,000 | 10,000 | |
| 2.5.i | Total Renewable Energy Resources | | | | |
| 2.5.1.i | Biomass/Biogas | 534,000 | 307,000 | 489,000 | |
| 2.5.2.i | Geothermal | 0 | 0 | 0 | |
| 2.5.3.i | Hydroelectric | 1,528,000 | 2,367,000 | 1,782,000 | |

| Ref. No. | Refer to Comment Field for Additional Metric Considerations and Hyperlinks | 2017 | 2018 | 2019 | Comments, Links, Additional Information, and Notes |
|----------|--|-----------------|-----------------|-----------------|--|
| 2.5.4.i | Solar | 1,057,000 | 1,086,000 | 937,000 | Primarily oil/gas steam units. |
| 2.5.5.i | Wind | 4,050,000 | 2,769,000 | 2,450,000 | |
| 2.6.i | Other | 376,000 | 1,180,000 | 969,000 | |
| 2.ii | Purchased Net Generation for the data year (MWh) | 51,595,000 | 59,050,000 | 69,708,000 | Power purchased by Exelon Generation only as reported in Exelon 10-K (rounded to nearest thousand). This does not include default power purchased by Exelon utilities on behalf of customers that have not selected a competitive energy supplier. |
| 3 | Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters | | | | |
| 3.1 | Total Annual Capital Expenditures (nominal dollars) | \$7,584,000,000 | \$7,594,000,000 | \$8,175,000,000 | Exelon 10-K 142 (Exelon, Generation, ComEd, BGE, Pepco, DPL, ACE) |
| 3.2 | Incremental Annual Electricity Savings from EE Measures (MWh) | 3,823,602 | 3,191,754 | 3,309,932 | Source: EIA 861 |
| 3.3 | Incremental Annual Investment in Electric EE Programs (nominal dollars) | \$546,763,000 | \$521,164,000 | \$572,390,000 | Source: EIA 861 |
| 3.4 | Percent of Total Electric Customers with Smart Meters (at end of year) | | | 93.4% | Exelon CSR page 69 Exelon changed methodology for calculating this figure in 2019 and as such, we are only reporting 2019 figures |
| 4 | Retail Electric Customer Count (at end of year) | | | | |
| 4.1 | Commercial | 863,380 | 870,240 | 876,940 | Source: EIA 861 |
| 4.2 | Industrial | 12,017 | 12,046 | 12,021 | Customer counts include ACE, BGE, ComEd, Delmarva, Peco and Pepco |
| 4.3 | Residential | 7,958,581 | 8,027,393 | 8,090,658 | Constellation Retail customers (approximately 2 million) are not included. |
| | | | | | Preliminary 2019 Data. Publication in EIA 861 expected Q3 2020. |

Emissions

| | | | | | |
|---------|---|-----------|-----------|-----------|--|
| 5 | GHG Emissions: Carbon Dioxide (CO2) and Carbon Dioxide Equivalent (CO2e) | | | | |
| 5.1 | Owned Generation | | | | Exelon 3rd Party GHG Verification Statement: Scope 1 + 2 |
| 5.1.1 | Carbon Dioxide (CO2) | | | | EXC reports CO2 from all owned generation, including peaking units < 25 MW. Rounded to nearest 100 thousand metric tons. |
| 5.1.1.1 | Total Owned Generation CO2 Emissions (MT) | 9,532,000 | 8,841,000 | 8,566,000 | |
| 5.1.1.2 | Total Owned Generation CO2 Emissions Intensity (MT/Net MWh) | 0.049 | 0.046 | 0.045 | Exelon 3rd Party CO2 Intensity Verification Statement |

| Ref. No. | Refer to Comment Field for Additional Metric Considerations and Hyperlinks | 2017 | 2018 | 2019 | Comments, Links, Additional Information, and Notes |
|------------|--|------------|------------|------------|--|
| 5.2 | Purchased Power | | | | |
| 5.2.1 | Carbon Dioxide (CO2) | | | | Power purchased by Exelon Generation only as reported in Exelon 10-K (rounded to nearest thousand). This does not include default power purchased by Exelon utilities on behalf of customers that have not selected a competitive energy supplier. This latter category is available on page 163 of Exelon's 2019 CSR. |
| 5.2.1.1 | Total Purchased Generation CO2 Emissions (MT) | 17,693,000 | 21,022,000 | 18,864,000 | Exelon Scope 1, 2 and 3 emission Inventory (page 163 2019 CSR). |
| 5.2.1.2 | Total Purchased Generation CO2 Emissions Intensity (MT/Net MWh) | 0.343 | 0.356 | 0.271 | Exelon 3rd Party Verification Statement: Scope 3 |
| 5.3 | Owned Generation + Purchased Power | | | | |
| 5.3.1 | Carbon Dioxide (CO2) | | | | |
| 5.3.1.1 | Total Owned + Purchased Generation CO2 Emissions (MT) | 27,225,000 | 29,863,000 | 27,430,000 | |
| 5.3.1.2 | Total Owned + Purchased Generation CO2 Emissions Intensity (MT/Net MWh) | 0.110 | 0.118 | 0.106 | |
| 5.4 | Non-Generation CO2e Emissions | | | | |
| 5.4.1 | Fugitive CO2e emissions of sulfur hexafluoride (MT) | 81,000 | 87,000 | 61,000 | Rounded to nearest thousand metric tons. Exelon Utilities only. |
| 5.4.2 | Fugitive CO2e emissions from natural gas distribution (MT) | 388,000 | 369,000 | 348,000 | Rounded to nearest thousand metric tons. Exelon Gas Utilities only. |
| 6 | Nitrogen Oxide (NOx), Sulfur Dioxide (SO2), Mercury (Hg) | | | | |
| 6.1 | Generation basis for calculation | Owned | | | |
| 6.2 | Nitrogen Oxide (NOx) | | | | |
| 6.2.1 | Total NOx Emissions (MT) | 1,814 | 1,905 | 1,545 | NOx Data for Exelon Owned Generation CSR (includes all fossil units -- including those < 25MW) |
| 6.2.2 | Total NOx Emissions Intensity (MT/Net MWh) | 0.000009 | 0.000010 | 0.000007 | NOx Intensity Verification Statement |
| 6.3 | Sulfur Dioxide (SO2) | | | | |
| 6.3.1 | Total SO2 Emissions (MT) | 544 | 635 | 193 | SO2 Data from Exelon CSR (includes all fossil units -- including those < 25MW) |
| 6.3.2 | Total SO2 Emissions Intensity (MT/Net MWh) | 0.000003 | 0.000003 | 0.0000009 | SO2 Intensity Verification Statement |
| 6.4 | Mercury (Hg) | | | | |
| 6.4.1 | Total Hg Emissions (kg) | n/a | n/a | n/a | No coal-fired generation |
| 6.4.2 | Total Hg Emissions Intensity (kg/Net MWh) | n/a | n/a | n/a | No coal-fired generation |

| Ref. No. | | 2017 | 2018 | 2019 | Comments, Links, Additional Information, and Notes |
|--|---|----------|----------|----------|--|
| Refer to Comment Field for Additional Metric Considerations and Hyperlinks | | | | | |
| Resources | | | | | |
| 7 | Human Resources | | | | Exelon reports employee totals as of 12/31 |
| 7.1 | Total Number of Employees | 34,529 | 33,298 | 32,937 | Employee Counts from Exelon CSR |
| 7.2 | Total Number on Board of Directors/Trustees | 12 | 14 | 13 | Board of Directors Profiles |
| 7.3 | Total Women on Board of Directors/Trustees | 2 | 3 | 4 | Board of Directors Profiles |
| 7.4 | Total Minorities on Board of Directors/Trustees | 2 | 1 | 2 | Board of Directors Profiles |
| 7.5 | Employee Safety Metrics | | | | |
| 7.5.1 | Recordable Incident Rate | 0.52 | 0.57 | 0.57 | Safety Metrics from 2019 Exelon CSR |
| 7.5.2 | Lost-time Case Rate | 0.22 | 0.18 | 0.21 | Safety Metrics from 2019 Exelon CSR |
| 7.5.3 | Days Away, Restricted, and Transfer (DART) Rate | 0.32 | 0.36 | 0.33 | Safety Metrics from 2019 Exelon CSR |
| 7.5.4 | Work-related Fatalities | 1 | 1 | 2 | Safety Metrics from 2019 Exelon CSR |
| 8 | Fresh Water Resources | | | | |
| 8.1 | Water Withdrawals - Consumptive (Billions of Liters/Net MWh) | 0.000004 | 0.000004 | 0.000005 | Water Data from 2018 Exelon CSR |
| 8.2 | Water Withdrawals - Non-Consumptive (Billions of Liters/Net MWh) | 0.000227 | 0.000295 | 0.000246 | Water Data from 2018 Exelon CSR |
| | | | | | Water Data Also Reported in Exelon's CDP Water Survey Response |
| | | | | | Withdrawals for all uses (utility & generation). Excludes brackish water withdrawals. Includes Conowingo Dam run-of-river hydro that was 54.7% of total water use in 2019 (please note in comparing Exelon to companies without hydro assets). The Conowingo Dam is on the Susquehanna River which has tributaries covering 27,510 square miles that produce a normal average river flow rate of 18 million gallons per minute, or 68,137,412 liters per minute. |
| 9 | Waste Products | | | | |
| 9.1 | Amount of Hazardous Waste Manifested for Disposal | 854 | 1,460 | 370 | |
| 9.2 | Percent of Coal Combustion Products Beneficially Used | n/a | n/a | n/a | No coal |
| Additional Metrics (Optional) | | | | | |
| | # of WHC Certified Sites | 37 | 40 | 46 | Habitat and Biodiversity Metrics |
| | # of NWF Certified Sites | 37 | 52 | 54 | Habitat and Biodiversity Metrics |
| | Please see Exelon Performance Data 2017-2019 Metrics Table in 2019 CSR. | | | | |



Gas Company ESG/Sustainability Quantitative Information

Parent Company: Exelon Corporation
Operating Company(s): Baltimore Gas and Electric (BGE), Delmarva Power (DPL) and PECO Energy (PECO)

Business Type(s): *Competitive Integrated*
State(s) of Operation: Delaware, Maryland, Pennsylvania
Regulatory Environment: *Natural Gas Utilities are Regulated*
Report Date: August 15, 2020

| | | 2018 | 2019 | Comment |
|--|---|-------------|-------------|---|
| Natural Gas Distribution | | | | |
| 1 | METHANE EMISSIONS AND MITIGATION FROM DISTRIBUTION MAINS | | | |
| 1.1 | Number of Gas Distribution Customers | 1,300,000 | 1,300,000 | See 2019 Exelon 10-K |
| 1.2 | Distribution Mains in Service | | | |
| 1.2.1 | Plastic (<i>miles</i>) | 8,089 | 8,298 | See 2019 Exelon CSR (Pages 62-63) |
| 1.2.2 | Cathodically Protected Steel - Bare & Coated (<i>miles</i>) | 6,087 | 6,077 | See 2019 Exelon CSR (Pages 62-63) |
| 1.2.3 | Unprotected Steel - Bare & Coated (<i>miles</i>) | 399 | 373 | See 2019 Exelon CSR (Pages 62-63) |
| 1.2.4 | Cast Iron / Wrought Iron - without upgrades (<i>miles</i>) | 1,811 | 1,663 | See 2019 Exelon CSR (Pages 62-63) |
| 1.3 | Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (<i># years to complete</i>) | 16 to 19 | 15 to 18 | See unique phase out schedule for each gas utility in Exelon CSR |
| 1.3.1 | Unprotected Steel (Bare & Coated) (<i># years to complete</i>) | ➡ | ➡ | See unique phase out schedule for each gas utility in Exelon CSR |
| 1.3.2 | Cast Iron / Wrought Iron (<i># years to complete</i>) | ➡ | ➡ | See unique phase out schedule for each gas utility in Exelon CSR |
| 2 | Distribution CO2e Fugitive Emissions | | | |
| 2.1 | CO2e Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>) | 367,945 | 348,336 | See 2019 Exelon CSR GHG Inventory (Page 163) |
| 2.2 | CH4 Fugitive Methane Emissions from Gas Distribution Operations (<i>metric tons</i>) | 14,718 | 13,933 | |
| 2.2.1 | CH4 Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year) | 767 | 726 | |
| 2.3 | Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (<i>Mscf/year</i>) | 204,730,705 | 206,832,124 | |
| 2.3.1 | Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year) | 194,494 | 196,491 | |
| 2.4 | Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput) | 0.37% | 0.35% | See 2019 Exelon CSR "Methane Emissions from Exelon Utility Gas Distribution Systems" for Exelon's calculation methodology and data. |
| Additional Metrics (Optional) | | | | |
| Exelon's 2019 CSR contains a two-page overview on pp. 62-63 of our gas utilities' natural gas emission reduction activities. This section of the CSR links to four papers: 1) a summary of main and services by company; 2) Distribution and service replacement plans by utility; 3) leak detection and repair details; and, 4) GHG emission and intensity details, including how these efforts support Exelon's 3rd corporate GHG emission reduction goal. | | | | |