



ENERGY  
**FORWARD**

**PPL Corporation**  
**2020 EEI-AGA ESG/Sustainability Report**



## Qualitative Section

PPL Corporation and the PPL family of companies power the lives and businesses of more than 2.5 million customers in the United States.

With fully regulated, high-performing utilities in constructive regulatory jurisdictions, the company is well positioned for continued success and earnings and dividend growth potential.

Our companies are addressing challenges head on, building a smarter, more reliable, more resilient grid and advancing a cleaner energy future.

The qualitative and quantitative data in this report primarily reflects the 2020 calendar year, with 2021 noted.

### SUSTAINABILITY GOVERNANCE

PPL's management approach to sustainability engages all levels of the company from the board of directors to our employees. PPL's board has designated its Governance and Nominating Committee with responsibility for overseeing PPL's practices and positions to further ESG performance and sustainability. The committee receives updates, which include climate-related issues, at regularly scheduled meetings.

<p>Governance and Nominating Committee, Board of Directors</p>	<p>Oversees the company's practices and positions to further its corporate citizenship, including sustainability, environmental and corporate social responsibility initiatives.</p>
<p>Corporate Leadership Council</p>	<p>Reviews and provides strategic input and approves the company's sustainability strategy, commitments and priorities. The council includes PPL's chief executive officer, chief operating officer, chief financial officer and general counsel.</p>
<p>Corporate Sustainability Committee</p>	<p>Responsible for reviewing and guiding the development of a sustainability strategy, providing oversight and establishing the priorities and performance metrics. Chaired by the VP-Public Affairs and Sustainability, this committee consists of senior leaders throughout the corporation (including operating companies, corporate audit, legal, controller, investor relations, corporate compliance, risk and human resources functions).</p>
<p>Sustainability Core Team</p>	<p>Cross-functional and enterprise-wide team of subject matter experts that conducts analyses of sustainability priority issues and environmental, social and governance trends, and is responsible for developing environmental, social and governance disclosures. Chaired by the senior manager-Corporate Responsibility and Sustainability with members from legal, supply chain, safety, human resources, environmental, government relations, regulatory, financial, communications and community relations.</p>

## SUSTAINABILITY STRATEGY

Our sustainability commitments provide a framework for PPL to grow and innovate in a responsible, reliable way that benefits customers, shareowners, employees and society as a whole. We support investments in smarter, more resilient power grids and advancements in research and development for more sustainable generation.

PPL supports the clean energy transition and is investing in smarter, more resilient power grids and advancements in research and development for more sustainable generation.

### Environment and Climate Action

We are assessing our clean energy transition strategy to enhance the company's long-term strategic roadmap and identify actions to advance clean energy opportunities that continue to deliver reliable and affordable energy. We are currently developing an integrated resource plan for our operating company in Kentucky as well as updating our enterprise-wide climate assessment plan, which will be issued in the fall of 2021.

As we transition to a cleaner energy future, our strategy includes:



#### Decarbonizing our generation

We have set a goal of achieving net-zero emissions by 2050. Given our progress in reducing our emissions from generation and other areas of our operations, we are on track to achieve a 70% reduction in CO<sub>2</sub>e (CO<sub>2</sub> and other greenhouse gases) by 2035 and an 80% reduction in CO<sub>2</sub>e by 2040. We know that there is more to do, and we are committed to reducing our generation emissions, which represent the bulk of PPL's CO<sub>2</sub>e emissions, in a way that makes sense for our customers, communities and shareowners. We will seek first to reduce emissions before considering removal or other mitigation options. We are also responsibly expanding our unregulated renewable generation portfolio, adding 93 megawatts of solar generation through 2020.



#### Decarbonizing our non-generation operations

We have set a goal to reduce carbon emissions from our fleet vehicles by 5,000 metric tons, a 21% reduction from 2020 levels, by 2030. We have reduced fugitive emissions associated with transmission and distribution equipment by 68% since 2010 and by 37% since 2016 from our gas distribution operations.



#### Furthering research and development

We recognize that advances in technology are necessary to reduce or remove remaining carbon emissions and drive down the cost of doing so. That's why we are investing in technology and partnerships to help the U.S. electricity sector achieve carbon neutrality by 2050, including:

- PPL recently announced it is expanding its efforts to advance clean energy technologies by joining Energy Impact Partners' global investment platform, which brings together leading companies and entrepreneurs worldwide to

foster innovation toward a sustainable energy future. PPL said it has committed to invest up to \$50 million across EIP's investment platform to help accelerate the shift to a low-carbon future and drive commercial-scale solutions needed to deliver deep, economywide decarbonization. Collaboration with EIP will provide PPL greater visibility into emerging technologies that can be leveraged to advance the clean energy transition.

- PPL is an anchor sponsor of the joint, five-year effort between the Electric Power Research Institute and the Gas Technology Institute to conduct intensive and focused R&D in clean energy technologies that are necessary for economywide decarbonization. PPL's CEO is chairing the board-level LCRI working group.
- PPL Electric Utilities supports collective industry research spearheaded by the National Electric Energy Testing, Research and Application Center including reliability analysis, power cable system design and distribution system standards.
- LG&E and KU collaborated with the University of Kentucky on a megawatt-scale carbon capture pilot and is working with the Electric Power Research Institute on a large-scale energy storage project.



#### Enabling third-party decarbonization

- **Investing in grid resiliency and climate adaptation.** We have invested more than \$30 billion over the past decade to strengthen grid resiliency in the face of future storms, reduce power plant emissions and prepare networks to better integrate more distributed energy resources, including renewables and energy storage, with \$20 billion invested in our U.S. operations.
- **Enabling renewables and helping our customers go green.**
  - Implemented a Renewable Power Agreement for customers interested in purchasing renewable power in Kentucky.

Through the agreement, LG&E and KU partners with customers to build and provide renewable energy resources. Toyota Motor Manufacturing, which operates the world's largest Toyota manufacturing facility in Kentucky, and Dow Silicones Corporation are the first companies to partner with LG&E and KU. Toyota and Dow have made a 20-year commitment to purchase solar power that will be procured by LG&E and KU from a planned 100-megawatt solar facility in the state. LG&E and KU have committed to purchasing all output from the planned facility for use in serving customers.

- Launched an innovative Distributed Energy Resource Management System in Pennsylvania to enable more distributed energy resources, like solar power and energy storage, to connect reliably to the grid.
- Made it easier for customers in Pennsylvania to apply to connect solar panels and other generation systems to the

grid through a user-friendly Renewable Energy Connection website. Through 2020, the website supported the connection of more than 235.5 megawatts of renewable energy to the grid.

- Invested in the development of commercial-scale solar projects through Safari Energy. With projects generating approximately 618,942 megawatt hours of electricity, the company has helped clients avoid the equivalent of more than 438,000 metric tons of CO<sub>2</sub>, equal to nearly 484 million pounds of coal burned.<sup>1</sup>
- Provided \$18.1 million in energy efficiency rebates to customers, collectively saving more than 307 million kilowatt-hours of electricity, the equivalent of more than 26,000 homes' energy use for one year<sup>1</sup>, and reducing peak demand by more than 142 megawatts.
- Conduct community tree planting programs, which resulted in the sequestration of 690 metric tons of CO<sub>2</sub>e.

## Social responsibility

PPL's ESG commitments related to social responsibility include exceeding customer expectations, fostering an exceptional workplace and strengthening the communities we serve. Achievements in 2020 included:

- Supporting diverse businesses – those owned by minorities, women and veterans (covering Tier 1 and 2 suppliers). In 2020, the company spent \$274 million with diverse businesses. Additionally, 53% of goods and services are procured from locally based suppliers, providing economic development support to communities in our jurisdiction.
- Strengthening communities with charitable funding of more than \$10 million in the U.S. and partnering with our communities for economic development, disaster readiness and emergency preparedness.
- Keeping energy rates affordable for customers. PPL Electric customers' costs are below the average of the mid-Atlantic region (18 companies in New Jersey, New York and Pennsylvania). LG&E and KU's average electricity rates rank among the lowest in the U.S., according to the Energy Information Administration. The company's goal is to continue to reduce operating and maintenance expenses to further benefit customers.
- Contributing more than \$3 million to various customer assistance programs to help vulnerable residential customers pay their energy bills, including contributions for COVID-19 relief.
- Being recognized for outstanding 2020 performance in several areas including being ranked as one of the best places to work for people with disabilities on the Disability Equality Index and receiving a perfect score of 100 on the Human Rights Campaign Foundation's Corporate Equality Index for its Pennsylvania operations.

## Diversity, equity and inclusion

PPL is committed to providing vital energy services to the diverse communities we serve. We view diversity, equity and inclusion as a strategic imperative that enhances our customer insight and fuels innovation and growth. To ensure we can make a long-lasting impact in our workplaces and communities, we have developed five commitments to advance diversity, equity and inclusion:

- Attract, develop and retain a high-performing, diverse workforce.
- Increase diverse representation in leadership roles, with a focus on females and minorities.
- Maintain a workplace culture of equity and inclusion.
- Foster partnerships that support the growth and vitality of the diverse communities and customers we serve.
- Develop and sustain relationships with diverse suppliers, vendors and service providers.

Each operating company is committed to advancing these common commitments with embedded diversity, equity and inclusion managers overseeing the effort and monitoring progress.

<sup>1</sup> EPA GHG Equivalencies Calculator

## Governance and management

### Enterprise risk management

PPL maintains a robust enterprise risk management process that provides a business portfolio view of material risks that may impact achievement of PPL's business strategy. As part of the enterprise risk management process, representatives from PPL's operating companies and service groups identify, assess, monitor and report on ongoing and emerging risks, including climate-related and broader environmental, social and governance risks. The company's Risk Management group oversees this process and reports quarterly to the Audit Committee.

### Cybersecurity

PPL takes an enterprise-wide, risk-based approach to cybersecurity to address and mitigate today's security threats, while remaining vigilant on emerging threats.

PPL continually invests in security strategies and practices from industry-accepted security control frameworks. Our cybersecurity strategy is aligned with and informed by the following:

- Current and emerging cybersecurity threats.
- National Institute of Standards and Technology Cybersecurity Framework.
- Industry threat intelligence sharing in multiple forums and groups, including:
  - Electricity Information Sharing and Analysis Center.
  - Cybersecurity Risk Information Sharing Program.
  - Edison Electric Institute's cybersecurity, physical security and resiliency efforts.
  - Electricity Sub-Sector Coordinating Council.
- Federal Energy Regulatory Commission.
- North American Electric Reliability Corporation, including mandatory industry standards such as NERC Critical Infrastructure Protection.

The management of cybersecurity risks is integrated into our Enterprise Risk Management (ERM) process. The PPL Corporate Security Council, which includes senior leaders throughout the corporation (including PPL's chief financial officer, chief human resources officer, general counsel, vice president-Corporate Audit, global chief compliance officer, operating company presidents and chief information officers), oversees and governs actions to ensure that PPL is effectively managing cybersecurity risks by conducting regular reviews of the overall enterprise cybersecurity strategy, posture and risks. The council is chaired by the vice president and chief information security officer. In addition, the full board of directors receives periodic updates of cyber-related matters.

For more details about how PPL ensures the physical and cyber security of the grid, please see page 17 of the [2020 Corporate Sustainability Report](#).

### Public policy engagement

PPL actively encourages public policy that furthers our ability to safely provide reliable and affordable electricity to our customers and supports our growth and innovation in ways that benefit our company and our stakeholders. Our active participation in the public policy arena helps to ensure that public officials are kept informed of key issues that affect the interests of our stakeholders.

PPL's Public Affairs department is in regular communication with executive leadership and provides an annual report to the board on key issues and advocacy positions. Additionally, on an annual basis, the board receives a report of corporate political contributions.

Details regarding PPL's approach to public policy engagement, including compliance, trade association membership, political action committees and contributions to certain tax-exempt organizations, are available online on [the company's website](#).

The company's transparent reporting has earned a trendsetter ranking by the CPA-Zicklin Index, which benchmarks the political disclosure and accountability policies and practices of leading U.S. public companies.

### Management and Oversight of Natural Gas Operations

LG&E is engaged in the distribution and sale of natural gas, serving more than 300,000 natural gas customers in Kentucky.

LG&E leadership has overall responsibility for the oversight of natural gas operations. The company's Natural Gas Pipeline Safety Compliance Program Steering Committee provides enhanced oversight for compliance with state, local and federal gas operations and pipeline safety regulations. LG&E also has a Pipeline Safety Management Systems program, with the objective of implementing key practices recommended by the American Petroleum Institute. LG&E maintains integrity management plans, including those for transmission, distribution and storage.

The system is made up of approximately 4,300 miles of natural gas distribution lines and nearly 400 miles of natural gas transmission lines; compressor stations that move the gas through the system to customers; and natural gas storage fields that enable LG&E to purchase gas when costs are low, store it for later use, and pass the savings to customers.

LG&E employs comprehensive natural gas safety and leak detection measures that include monitoring systems 24/7 by a central Gas Control Room; conducting leak surveys; operating a Pipeline Integrity Management Program that identifies and minimizes potential pipeline risks; and educating community partners and the general public about natural gas safety.

LG&E's Lost and Unaccounted for Gas as reported on our Gas Distribution Annual Report filed with Pipeline and Hazardous Materials Safety Administration was 1.1% for the year ending June 30, 2020, an amount well within the industry average. The metric includes gas lost through leaks, theft and losses due to operations and maintenance functions when necessary. In addition to those ongoing efforts, the company's plans for natural gas infrastructure updates include:

- Replacing approximately 45,000 steel customer service lines and removing of approximately 4,400 steel curbed services.
- Implementing a Transmission Pipeline Modernization program to replace approximately 15.5 miles of transmission pipeline.
- Upgrading to city gate stations and gas regulation facilities with new valves, piping, and modern regulation and measurement equipment.

## ADDITIONAL RESOURCES

PPL provides transparent, voluntary disclosure of sustainability issues through several reporting mechanisms. We are pleased to provide investors and other interested stakeholders with our 2020 EEI-AGA report using a common set of key environmental, social and governance (ESG) metrics across the utility sector.

We will continue to consult stakeholders and monitor relevant global frameworks as we work to continually improve our reporting and disclosure.

Additional information and disclosures on our ESG-related efforts can be found in the following publicly available resources:

Topic Area	Link
Climate Goals and Related Analysis	<ul style="list-style-type: none"> <li>• <a href="#">Climate Action</a></li> <li>• <a href="#">Sustainability disclosures</a>, including:                             <ul style="list-style-type: none"> <li>– Climate assessment report</li> <li>– CDP climate questionnaire</li> <li>– TCFD mapping</li> </ul> </li> </ul>
Diversity, Equity and Inclusion	<ul style="list-style-type: none"> <li>• <a href="#">DEI strategy</a></li> <li>• <a href="#">2020 Corporate Sustainability Report</a> (pages 42-43)</li> </ul>
General ESG Disclosure	<ul style="list-style-type: none"> <li>• <a href="#">2020 Corporate Sustainability Report</a> (GRI Index, page 51)</li> <li>• <a href="#">SASB</a></li> </ul>
Human Capital Management	<ul style="list-style-type: none"> <li>• <a href="#">2020 Corporate Sustainability Report</a> (pages 40-45)</li> </ul>
Public Policy	<ul style="list-style-type: none"> <li>• <a href="#">Public Policy Disclosures</a></li> </ul>
Research and Development	<ul style="list-style-type: none"> <li>• CDP 2020 climate questionnaire</li> <li>• <a href="#">2020 Corporate Sustainability Report</a> (page 27)</li> </ul>

*Cautionary statement regarding forward-looking information: Any statements made in this document about future operating results or other future events are forward-looking statements under the Safe Harbor Provisions of the Private Securities Litigation Reform Act of 1995. Although based on current beliefs and expectations, forward-looking statements involve various risks and uncertainties, including those that PPL Corporation describes in its Form 10-K and other filings with the Securities and Exchange Commission. Actual results may differ materially from the forward-looking statements.*

## Quantitative Section

**Parent Company:** PPL Corporation  
**Operating Company(s):** PPL Electric Utilities (PPL Electric), Louisville Gas & Electric and Kentucky Utilities (LG&E and KU), and Western Power Distribution (WPD)  
**Business Type(s):** Fully regulated utilities; Distribution (U.K.); T&D (Pennsylvania) and T&D plus regulated generation (Kentucky)  
**State(s) of Operation:** Pennsylvania, Kentucky, Virginia and Tennessee; United Kingdom  
**State(s) with RPS Programs:** Pennsylvania (mandatory)  
**Regulatory Environment:** Regulated  
**Report Date:** August 31, 2020

PORTFOLIO			
Ref. No.		Last Year - 2019	Current Year - 2020
<b>1</b>	<b>Owned Nameplate Generation Capacity at end of year (MW) (Summer Net Capacity)</b>	7,561	7,561
1.1	Coal	4,715	4,715
1.2	Natural Gas	2,742	2,742
1.3	Nuclear	-	-
1.4	Petroleum	-	-
1.5	Total Renewable Energy Resources	104	104
1.5.1	Biomass/Biogas	-	-
1.5.2	Geothermal	-	-
1.5.3	Hydroelectric	96	96
1.5.4	Solar	8	8
1.5.5	Wind	-	-
1.6	Other	-	-

<b>2</b>	<b>Net Generation for the data year (MWh)</b>	32,877,378	30,541,195
2.1	Coal	25,917,030	24,583,169
2.2	Natural Gas	6,584,734	5,450,386
2.3	Nuclear	-	-
2.4	Petroleum	1,226	1,480
2.5	Total Renewable Energy Resources	374,388	506,160
2.5.1	Biomass/Biogas	-	-
2.5.2	Geothermal	-	-
2.5.3	Hydroelectric	356,903	367,204
2.5.4	Solar	17,485	138,956
2.5.5	Wind	-	-
2.6	Other	-	-

<b>2.i</b>	<b>Owned Net Generation for the data year (MWh)</b>	32,282,872	29,916,634
2.1.i	Coal	25,348,476	24,038,977
2.2.i	Natural Gas	6,558,782	5,370,017
2.3.i	Nuclear	-	-
2.4.i	Petroleum	1,226	1,480
2.5.i	Total Renewable Energy Resources	374,388	506,160

Ref. No.		Last Year - 2019	Current Year - 2020
2.5.1.i	Biomass/Biogas	-	-
2.5.2.i	Geothermal	-	-
2.5.3.i	Hydroelectric	356,903	367,204
2.5.4.i	Solar	17,485	138,956 <sup>A</sup>
2.5.5.i	Wind	-	-
2.6.i	Other	-	-

<sup>A</sup> Includes 122,351 MWh generated by Safari Energy, LLC

2.ii	Purchased Net Generation for the data year (MWh)	594,506	624,561
2.1.ii	Coal	568,554	544,192
2.2.ii	Natural Gas	25,952	80,369
2.3.ii	Nuclear	-	-
2.4.ii	Petroleum	-	-
2.5.ii	Total Renewable Energy Resources	-	-
2.5.1.ii	Biomass/Biogas	-	-
2.5.2.ii	Geothermal	-	-
2.5.3.ii	Hydroelectric	-	-
2.5.4.ii	Solar	-	-
2.5.5.ii	Wind	-	-
2.6.ii	Other	-	-

3	Investing in the Future: Capital Expenditures, Energy Efficiency (EE), and Smart Meters		
3.1	Total Annual Capital Expenditures (nominal dollars)	\$1,121,000,000 PPL Electric Utilities  \$1,094,000,000 Louisville Gas & Electric and Kentucky Utilities  \$857,000,000 Western Power Distribution	\$1,154,000,000 PPL Electric Utilities  \$966,000,000 Louisville Gas & Electric and Kentucky Utilities  \$993,000,000 Western Power Distribution
3.2	Incremental Annual Electricity Savings from EE Measures (MWh)	538,450	307,572
3.3	Incremental Annual Investment in Electric EE Programs (nominal dollars)	\$75,824,217	\$55,004,266

4	Retail Electric Customer Count (at end of year)	10,693,596	10,747,565
4.1	Commercial	338,516	341,568
4.2	Industrial	6,206	6,102
4.3	Residential	2,396,196	2,418,244



## EMISSIONS

Ref. No.		Last Year - 2019	Current Year - 2020
<b>5</b>	<b>GHG Emissions: Carbon Dioxide (CO<sub>2</sub>) and Carbon Dioxide Equivalent (CO<sub>2</sub>e)</b>		
<b>5.1</b>	<b>Owned Generation</b>		
5.1.1	Carbon Dioxide (CO <sub>2</sub> )		
5.1.1.1	Total Owned Generation CO <sub>2</sub> Emissions (MT)		
5.1.1.2	Total Owned Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh)		
5.1.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)		
5.1.2.1	Total Owned Generation CO <sub>2</sub> e Emissions (MT)	26,744,632	24,973,621
5.1.2.2	Total Owned Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh)	0.83	0.83
<b>5.2</b>	<b>Purchased Power</b>		
5.2.1	Carbon Dioxide (CO <sub>2</sub> )		
5.2.1.1	Total Purchased Generation CO <sub>2</sub> Emissions (MT)		
5.2.1.2	Total Purchased Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh)		
5.2.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)		
5.2.2.1	Total Purchased Generation CO <sub>2</sub> e Emissions (MT)	4,916,945	4,673,449
5.2.2.2	Total Purchased Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh)	0.43	0.41
<b>5.3</b>	<b>Owned Generation + Purchased Power</b>		
5.3.1	Carbon Dioxide (CO <sub>2</sub> )		
5.3.1.1	Total Owned + Purchased Generation CO <sub>2</sub> Emissions (MT)		
5.3.1.2	Total Owned + Purchased Generation CO <sub>2</sub> Emissions Intensity (MT/Net MWh)		
5.3.2	Carbon Dioxide Equivalent (CO <sub>2</sub> e)		
5.3.2.1	Total Owned + Purchased Generation CO <sub>2</sub> e Emissions (MT)	31,661,577	29,647,070
5.3.2.2	Total Owned + Purchased Generation CO <sub>2</sub> e Emissions Intensity (MT/Net MWh)	0.71	0.71
<b>5.4</b>	<b>Non-Generation CO<sub>2</sub>e Emissions of Sulfur Hexafluoride (SF<sub>6</sub>)</b>		
5.4.1	Total CO <sub>2</sub> e emissions of SF <sub>6</sub> (MT)	88,669	43,616
5.4.2	Leak rate of CO <sub>2</sub> e emissions of SF <sub>6</sub> (MT/Net MWh)	0.002747	0.001458

<b>6</b>	<b>Nitrogen Oxide (NO<sub>x</sub>), Sulfur Dioxide (SO<sub>2</sub>), Mercury (Hg)</b>		
6.1	Generation basis for calculation		
<b>6.2</b>	<b>Nitrogen Oxide (NO<sub>x</sub>)</b>		
6.2.1	Total NO <sub>x</sub> Emissions (MT)	14,633	11,948
6.2.2	Total NO <sub>x</sub> Emissions Intensity (MT/Net MWh)	0.000453	0.000399
<b>6.3</b>	<b>Sulfur Dioxide (SO<sub>2</sub>)</b>		
6.3.1	Total SO <sub>2</sub> Emissions (MT)	13,487	13,194
6.3.2	Total SO <sub>2</sub> Emissions Intensity (MT/Net MWh)	0.000418	0.000441
<b>6.4</b>	<b>Mercury (Hg)</b>		
6.4.1	Total Hg Emissions (kg)	55.0	48.0
6.4.2	Total Hg Emissions Intensity (kg/Net MWh)	1.70E-06	1.60E-06

## RESOURCES

Ref. No.		Last Year - 2019	Current Year - 2020
<b>7</b>	<b>Human Resources</b>		
7.1	Total Number of Employees	12,280	12,318
7.2	Percentage of Women in Total Workforce	21.9%	22.3%
7.3	Percentage of Minorities in Total Workforce	6.6%	6.5%
7.4	Total Number on Board of Directors/Trustees	9	10
7.5	Percentage of Women on Board of Directors/Trustees	22%	20%
7.6	Percentage of Minorities on Board of Directors/Trustees	33%	30%
7.7	Employee Safety Metrics		
7.7.1	Recordable Incident Rate	1.02	1.18
7.7.2	Lost-time Case Rate	0.21	0.30
7.7.3	Days Away, Restricted, and Transfer (DART) Rate	0.34	0.53
7.7.4	Work-related Fatalities	1.00	0.00

<b>8</b>	<b>Fresh Water Resources used in Thermal Power Generation Activities</b>		
8.1	Water Withdrawals - Consumptive (Millions of Gallons)	130,975	135,829
8.2	Water Withdrawals - Non-Consumptive (Millions of Gallons)	116,847	114,155
8.3	Water Withdrawals - Consumptive Rate (Millions of Gallons/Net MWh)	0.00406	0.00454
8.4	Water Withdrawals - Non-Consumptive Rate (Millions of Gallons/Net MWh)	0.00362	0.00382

<b>9</b>	<b>Waste Products</b>		
9.1	Amount of Hazardous Waste Manifested for Disposal	473.37	680.02
9.2	Percent of Coal Combustion Products Beneficially Used	56.8%	58.4%

## EMISSIONS REDUCTION GOAL

Goal Applicability	Baseline Year	Target Year	Reduction Goal Description (Short)	Source (URL)
LG&E, KU, and PPL Electric	2010	2035	PPL has set an interim goal of CO <sub>2</sub> e reductions of 70% from 2010 levels by 2035.	<a href="https://www.pplweb.com/sustainability/climate-action/">https://www.pplweb.com/sustainability/climate-action/</a>
LG&E, KU, and PPL Electric	2010	2040	PPL has set an interim goal of CO <sub>2</sub> e reductions of 80% from 2010 levels by 2040.	<a href="https://www.pplweb.com/sustainability/climate-action/">https://www.pplweb.com/sustainability/climate-action/</a>
LG&E, KU, and PPL Electric	2010	2050	PPL set a goal of achieving net zero CO <sub>2</sub> e emissions by 2050. Goal-related emissions include those from owned generation, LG&E and KU purchased power, fleet vehicles, fugitive emissions (SF <sub>6</sub> ) and company building energy use.	<a href="https://www.pplweb.com/sustainability/climate-action/">https://www.pplweb.com/sustainability/climate-action/</a>

## Gas Company ESG/Sustainability Quantitative Section

**Parent Company:** PPL Corporation  
**Operating Company(s):** Louisville Gas & Electric (LG&E)  
**Business Type(s):** Fully regulated gas distribution utility  
**State(s) of Operation:** Kentucky  
**Regulatory Environment:** Regulated  
**Report Date:** August 31, 2020

### NATURAL GAS DISTRIBUTION

Ref. No.		Last Year - 2019	Current Year - 2020
<b>1</b>	<b>Methane Emissions and Mitigation from Distribution Mains</b>		
1.1	Number of Gas Distribution Customers	328,005	330,529
1.2	Distribution Mains in Service		
1.2.1	Plastic (miles)	2,181	2,202
1.2.2	Cathodically Protected Steel - Bare & Coated (miles)	2,202	2,196
1.2.3	Unprotected Steel - Bare & Coated (miles)	0.41	0
1.2.4	Cast Iron / Wrought Iron - without upgrades (miles)		
1.3	Plan/Commitment to Replace / Upgrade Remaining Miles of Distribution Mains (# years to complete)	-	-
1.3.1	Unprotected Steel (Bare & Coated) (# years to complete)	-	-
1.3.2	Cast Iron / Wrought Iron (# years to complete)	-	-

<b>2</b>	<b>Distribution CO<sub>2</sub>e Fugitive Emissions</b>		
2.1	CO <sub>2</sub> e Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	22,464.75	22,177.25
2.2	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (metric tons)	898.59	887.09
2.2.1	CH <sub>4</sub> Fugitive Methane Emissions from Gas Distribution Operations (MMSCF/year)	46.80	46.20
2.3	Annual Natural Gas Throughput from Gas Distribution Operations in thousands of standard cubic feet (Mscf/year)	45,182,334	46,474,061
2.3.1	Annual Methane Gas Throughput from Gas Distribution Operations in millions of standard cubic feet (MMscf/year)	42,923.22	44,150.36
2.4	Fugitive Methane Emissions Rate (Percent MMscf of Methane Emissions per MMscf of Methane Throughput)	0.11%	0.10%

## NATURAL GAS GATHERING AND BOOSTING

<b>1</b>	<b>Methane Emissions</b>		
1.1	Gathering and Boosting Pipelines, Blow Down Volumes, and Emissions		
1.1.1	Total Miles of Gathering Pipeline Operated by gas utility (miles)		
1.1.2	Volume of Gathering Pipeline Blow Down Emissions (scf)		
1.1.4	Gathering Pipeline Blow-Down Emissions outside storage and compression facilities (metric tons CO <sub>2</sub> e)		

<b>2</b>	<b>CO<sub>2</sub>e Combustion Emissions for Gathering &amp; Boosting Compression</b>		
2.1	CO <sub>2</sub> e Emissions for Gathering & Boosting Compression Stations (metric tons)		

<b>3</b>	<b>Conventional Combustion Emissions from Gathering &amp; Boosting Compression</b>		
3.1	Emissions reported for all permitted sources (minor or major)		
3.1.1	NOx (metric tons per year)	43.7	43.81
3.1.2	VOC (metric tons per year)	6.43	6.35