



PPL CORPORATION  
2023 Sustainability Report

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Carbon Emissions and Intensity Data



## Net-Zero Goal-Related Emissions (2010 Baseline)

|  | 2010                    | 2023       |
|--|-------------------------|------------|
| <b>Scope 1: Gross MWh of Owned Generation</b> (metric tonnes of CO <sub>2</sub> e )                                | 60,736,086 <sup>1</sup> | 25,085,753 |
| <b>Scope 1: Fleet Vehicles</b> (metric tonnes of CO <sub>2</sub> e)  | 48,343                  | 28,240     |
| <b>Scope 1: Small Plant Stationary Fuel Combustion Sources</b> (metric tonnes of CO <sub>2</sub> e)                | 2,515                   | 2,384      |
| <b>Scope 1: Plant Mobile Equipment</b> (metric tonnes of CO <sub>2</sub> e)  | 4,893                   | 5,373      |
| <b>Scope 1: Fugitive SF<sub>6</sub> Emissions</b> (metric tonnes of CO <sub>2</sub> e)                             | 114,727                 | 12,324     |
| <b>Scope 1: Gas Used in Facilities (stationary fuel combustion)</b> (metric tonnes of CO <sub>2</sub> e)           | 18,250                  | 14,395     |
| <b>Scope 2: Electricity Use in Facilities</b> (metric tonnes of CO <sub>2</sub> e) <sup>2</sup>                    | 89,732                  | 21,258     |
| <b>Scope 3: Electricity Purchased for End Use Customers - LG&amp;E and KU</b> (MWh)                                | 1,906,442               | 666,724    |
| <b>Scope 3: Electricity Purchased for End Use Customers - LG&amp;E and KU</b> (metric tonnes of CO <sub>2</sub> e) | 1,597,157               | 592,165    |
| <b>Total Goal-Related Emissions</b> (metric tonnes of CO <sub>2</sub> e)   | 62,577,296              | 25,761,892 |

<sup>1</sup>2010 Scope 1 Plant Emissions is the only data point that includes former PPL affiliate, PPL Energy Supply, LLC.

<sup>2</sup>Emissions for facilities served by LG&E and KU are included in scope 1 generation emissions.

## Other CO<sub>2</sub>e Emissions

|   | 2023       |
|---|------------|
| <b>Scope 1: Gas Operations</b> (metric tonnes of CO <sub>2</sub> e)   | 143,380    |
| <b>Scope 3: Electricity Purchased for End Use Customers - PPL Electric and Rhode Island Energy</b> (MWh)                                | 14,243,683 |
| <b>Scope 3: Electricity Purchased for End Use Customers - PPL Electric and Rhode Island Energy</b> (metric tonnes of CO <sub>2</sub> e) | 4,968,618  |
| <b>Scope 3: Gas Purchased for End Use Customers - LG&amp;E and Rhode Island Energy</b> (MMCUFT)   | 1,889,034  |
| <b>Scope 3: Gas Purchased for End Use Customers - LG&amp;E and Rhode Island Energy</b> (metric tonnes of CO <sub>2</sub> e)             | 3,834,945  |
| <b>Scope 3: Employee Commuting</b> (metric tonnes of CO <sub>2</sub> e)   | 10,870     |
| <b>Scope 3: Business Travel</b> (metric tonnes of CO <sub>2</sub> e)  | 1,051      |

## Carbon Intensity

|  | 2023   |
|--|--------|
| Operating Revenues (in millions)               | 8,312  |
| Revenue Carbon Intensity <sup>1</sup>          | 0.0031 |
| Gross Generation Carbon Intensity <sup>2</sup> | 0.853  |

<sup>1</sup>Total CO<sub>2</sub>e goal-related emissions divided by revenue.

<sup>2</sup>Total CO<sub>2</sub>e associated with gross owned generation divided by owned net generation.

## Energy Consumption and Output

|  | 2023          |
|--|---------------|
| Owned Gross Generation (MWh)                                 | 32,094,765    |
| Owned Net Generation (MWh)                                   | 29,422,636    |
| Total MMBtu Consumed at Plant                                | 289,194,298   |
| Generation Efficiency Heat Rate (MMBtu/owned net generation) | 9.8           |
| Small Plant Stationary Combustion Sources (liters)           | 1,197,989,910 |
| Plant Mobile Fuel Combustion Sources (liters)                | 2,068,174     |
| Facility Electricity Use (kWh)                               | 58,339,071    |
| Facility Gas Use (kWh)                                       | 78,011,721    |
| Fleet Vehicle Energy Use (liters)                            | 11,444,268    |

## Installed Capacity<sup>1</sup>

|   | 2023  |
|---|-------|
| Total Net Summer Rating at end of year (MW) | 7,535 |
| Coal Total Net Summer Rating (MW)           | 4,715 |
| Natural Gas Net Summer Rating (MW)          | 2,716 |
| Renewable Net Summer Rating (MW)            | 104   |
| Hydroelectric Net Summer Rating (MW)        | 96    |
| Solar Net Summer Rating <sup>2</sup> (MW)   | 8     |

<sup>1</sup>As reported in 10-K year ending Dec. 31, 2023. Owned generation excludes purchased power. Includes 75% Trimble County Unit 1 & 2 ownership.

<sup>2</sup>Does not include additional 1.7 MW from LG&E and KU's community Solar Share program.

## Air Emissions

|  | 2023      |
|--|-----------|
| Total NOx Emissions (metric tonnes)  | 12,940    |
| Total NOx Emissions Intensity (metric tonnes/owned net generation)             | .00044    |
| Total SO <sub>2</sub> Emissions (metric tonnes)                                | 12,087    |
| Total SO <sub>2</sub> Emissions Intensity (metric tonnes/owned net generation) | .00041    |
| Total HG Emissions (kg)  | 41        |
| Hazardous Air Pollutants Intensity (kg/owned net MWh)                          | .00000139 |
| Particulate Matter (metric tonnes)   | 527       |