



Net-Zero Goal-Related Emissions (2010 Baseline)

	2010	2022
Scope 1: Gross MWh of Owned Generation (metric tonnes of CO ₂ e)	60,736,086 ¹	26,882,439
Scope 1: Fleet Vehicles (metric tonnes of CO ₂ e)	48,343	31,052
Scope 1: Small Plant Stationary Fuel Combustion Sources (metric tonnes of CO ₂ e)	2,515	2,915
Scope 1: Plant Mobile Equipment (metric tonnes of CO ₂ e)	4,893	4,944
Scope 1: Fugitive SF₆ Emissions (metric tonnes of CO ₂ e)	114,727	13,126
Scope 1: Gas Used in Facilities (stationary fuel combustion) (metric tonnes of CO ₂ e) ²	18,250	17,971
Scope 2: Electricity Use in Facilities (metric tonnes of CO ₂ e) ³	89,732	26,020
Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (MWh)	1,906,442	279,940
Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (metric tonnes of CO ₂ e)	1,597,157	246,078
Total Goal-Related Emissions (metric tonnes of CO ₂ e)	62,577,296	27,224,545

¹2010 Scope 1 Plant Emissions is the only data point that includes former PPL affiliate, PPL Energy Supply, LLC.

²Reclassified as Scope 1 consistent with greenhouse gas reporting protocols.

³Emissions for facilities served by LG&E and KU are included in scope 1 generation emissions.

Other CO₂e Emissions

	2022
Scope 1: Gas Operations (metric tonnes of CO ₂ e)	148,604
Scope 3: Electricity Purchased for End Use Customers - PPL Electric and Rhode Island Energy (MWh)	18,355,451
Scope 3: Electricity Purchased for End Use Customers - PPL Electric and Rhode Island Energy (metric tonnes of CO ₂ e)	6,655,805
Scope 3: Gas Purchased for End Use Customers - LG&E and Rhode Island Energy (MMCUFT)	84,552
Scope 3: Gas Purchased for End Use Customers - LG&E and Rhode Island Energy (metric tonnes of CO ₂ e)	4,245,142
Scope 3: Employee Commuting (metric tonnes of CO ₂ e)	11,757
Scope 3: Business Travel (metric tonnes of CO ₂ e)	862

Full year of data included for Rhode Island Energy.
The 2010 goal baseline data remains unchanged.



Carbon Intensity

	2022
Operating Revenues (in millions)	\$7,902
Revenue Carbon Intensity ¹	0.0035
Gross Generation Carbon Intensity ²	0.851

¹Total CO₂e goal-related emissions divided by revenue.

²Total CO₂e associated with gross owned generation divided by owned net generation.

Energy Consumption and Output

	2022
Owned Gross Generation (MWh)	34,403,769
Owned Net Generation (MWh)	31,585,910
Total BTU Consumed at Plant	315,686,780
Generation Efficiency Heat Rate (BTU/owned net generation)	10.0
Small Plant Stationary Combustion Sources (liters)	1,463,989,662
Plant Mobile Fuel Combustion Sources (liters)	1,895,998
Facility Electricity Use (kWh)	103,953,754
Facility Gas Use (kWh)	99,218,362
Fleet Vehicle Energy Use (liters)	12,663,119

Full year of data included for Rhode Island Energy.

Installed Capacity¹

	2022
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 ² (MW)	8

¹As reported in 10-K year ending Dec. 31, 2022.

Owned generation excludes purchased power. Includes 75% Trimble County Unit 1 & 2 ownership.

²Does not include additional 2.5 MW from LG&E and KU's community Solar Share program.

Air Emissions

	2022
Total NOx Emissions (metric tonnes)	12,652
Total NOx Emissions Intensity (metric tonnes/owned net generation)	0.00040
Total SO ₂ Emissions (metric tonnes)	15,293
Total SO ₂ Emissions Intensity (metric tonnes/owned net generation)	0.00048
Total HG Emissions (kg)	55
Hazardous Air Pollutants Intensity (kg/owned net MWh)	1.74E-06
Particulate Matter (metric tonnes)	676