



PPL CORPORATION
2023 Sustainability Report

Voluntary Disclosure Index



Voluntary Disclosure Index

PPL's annual sustainability report has been prepared in accordance with the following voluntary frameworks and initiatives: the Global Reporting Initiative (GRI) Universal Standards, including electric utility sector specific indicators, the Sustainability Accounting Standards Board (SASB) Standard for electric and gas utilities and the Task Force for Climate-related Financial Disclosure (TCFD), and the United Nations Sustainable Development Goals (UNSDGs). These disclosures are meant to assist our investors, customers, business partners and other stakeholders in obtaining standardized disclosure. Unless otherwise noted, this document covers all of PPL Corporation (NYSE: PPL) and its subsidiaries, and all quantitative data covers the period from Jan. 1 to Dec. 31, 2023.

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
The organization and its reporting practices				
Organizational details	PPL at a glance Our companies Performance data Customers	2-1	IF-EU-000.A Number of: (1) residential, (2) commercial and (3) industrial customers served IF-EU-000.B Total electricity delivered to: (1) residential, (2) commercial, (3) industrial, (4) all other retail customers and (5) wholesale customers IF-EU-000.C Length of transmission and distribution lines IF-EU-000.D a) Total electricity generated, percentage by major energy source, percentage in regulated markets b) Total wholesale electricity purchased IF-GU-000.A Number of: (1) residential, (2) commercial and (3) industrial customers served IF-GU-000.B Amount of natural gas delivered to (1) residential customers, (2) commercial customers, (3) industrial customers and (4) transferred to a third party IF-GU-000.C Length of natural gas transmission and distribution lines	
Entities included in the organization's sustainability reporting	Our companies	2-2		
Reporting period, frequency and contact point	PPL's 2023 Corporate Sustainability Report is developed on an annual basis for calendar year 2023 and was published April 2024. Any questions regarding the report can be directed to community@pplweb.com .	2-3		
Restatements of information	PPL had no significant restatements to report in 2023.	2-4		
External Assurance	External assurances for this report have not been conducted.	2-5		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Activities and workers				
Activities, value chain, and other business relationships	PPL at a glance Our companies Supply chain management	2-6		
Employees	Our employees	2-7		
Workers who are not employees	Contractor Safety	2-8		
Governance				
Governance structure and composition	Corporate Governance Structure	2-9		Governance Describe management's role in assessing and managing climate-related risks and opportunities
Nomination and selection of the highest governance body	2024 Proxy Statement pages 27-28	2-10		
Chair of highest governance body	2024 Proxy Statement pages 20-21	2-11		
Role of the highest governance body in overseeing the management of impacts	Governance and management	2-12		Governance The board's oversight of climate-related risks and opportunities
Delegation of the responsibility for managing impacts	Governance and management	2-13		
Role of the highest governance body in sustainability reporting	Governance and management Sustainability governance	2-14		Governance The board's oversight of climate-related risks and opportunities
Conflicts of interest	PPL Corporation's Independence Guidelines	2-15		
Communication of critical concerns	Anyone wishing to make their concern known to PPL's board, its independent chair, any board member, or the independent directors as a group, may do so by writing to such person or persons in care of the Corporate Secretary's Office at PPL Corporation, Two North Ninth Street, Allentown, PA 18101.	2-16		
Collective knowledge of the highest governance body	Board Composition	2-17		
Evaluation of the performance of the highest governance body	2024 Proxy Statement pages 6-19	2-18		
Remuneration policies	Responsible compensation	2-19		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Process to determine remuneration	2024 Proxy Statement pages 26	2-20		
Annual total compensation ratio	2024 Proxy Statement pages 82	2-21		
Strategy, policies and practices				
Statement on sustainable development strategy	Our sustainability strategy	2-22		
Policy commitments	Legislative and policy positions	2-23		
Process to remediate negative impacts	Ethics and compliance	2-25		
Mechanisms for seeking advice and raising concerns	Ethics and compliance	2-26		
Compliance with laws and regulations	Ethics and compliance	2-27		
Membership associations	Public policy engagement	2-28		
Stakeholder engagement				
Approach to stakeholder engagement	Stakeholder engagement Energy equity, environmental justice and a just transition	2-29		
Collective bargaining agreements	Collective bargaining	2-30		
Disclosure on material topics	Our sustainability priorities			
Process to determine material topics	Our sustainability priorities	3-1		
List of material topics	Our sustainability priorities	3-2		
Management of material topics	Sustainability governance	3-3		Metrics and Targets a. Disclose the metrics used by the organization to assess climate-related risks and opportunities in line with its strategy and risk management process.

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Economic performance				
Direct economic value	2023 Form 10-K	201-1		
Financial implications and other risks and opportunities for the organization's activities due to climate change	Risks and opportunities	201-2	<p>Strategy</p> <ul style="list-style-type: none"> a) Describe the climate-related risks and opportunities the organization has identified over the short, medium, and long term b) Describe the impact of climate-related risks and opportunities on the organization's businesses, strategy and financial planning c) Describe the resilience of the organization's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario <p>Risk Management</p> <ul style="list-style-type: none"> a) Describe the organization's processes for identifying and assessing climate-related risks b) Describe the organization's processes for managing climate-related risks c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organization's overall risk management 	
Coverage of the organization's defined benefit plan obligations	2023 Form 10-K	201-3		
Market presence				
Ratios of standard entry-level wage by gender compared to local minimum wage	PPL's companies seek to provide work hours, wages and benefits in compliance with all applicable laws, including regulations related to stable scheduling and work hours.	202-1		
Proportion of senior management hired from the local community	Hiring and promotion is based on merit, not whether a candidate is from a particular locality.	202-2		
Infrastructure investments and services supported	Grid modernization Research and development	203-1	<p>IF-EU-420a.1 Percentage of electric utility revenues from rate structures that (1) are decoupled and (2) contain a lost revenue adjustment mechanism (RAM)</p> <p>IF-GU-420a.1 Percentage of natural gas utility revenues from rate structures that (1) are decoupled and (2) contain a lost revenue adjustment mechanism (RAM)</p>	

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Significant indirect economic impacts	Economic development Customer assistance Charitable giving	203-2		
Proportion of spending on local suppliers	Supply chain management	204-1		
Professional integrity				
Operations assessed for risks relate to corruption	All business units are subject to anti-corruption risks analysis.	205-1		
Communication and training on anti-corruption policies and procedures	All employees receive annual anti-corruption training as well as training on a variety of important policies and procedures. PPL's <i>Standards of Integrity</i> , which highlights certain key policies and procedures, can be accessed online at any time.	205-2		
Confirmed incidents of corruption and actions taken	PPL does not publicly disclose this information.	205-3		
Total number of legal actions for anti-competitive behavior, anti-trust and monopoly practices and their outcomes.	PPL does not publicly disclose this information.	206-1		
Tax				
Approach to tax	Taxes are discussed throughout the 2023 Form 10-K. See Note 6 beginning on page 116.	207-1		
Tax governance, control and risk management		207-2		
Stakeholder engagement and management of concerns related to tax		207-3		
Environmental management				
Materials used by weight or volume	Fuel consumption Waste management Water use and management	301-1		
Recycled input material used	We continue to investigate opportunities to incorporate recycled fuels in our operations.	301-2		
Energy consumption within the organization	Energy consumption and output	302-1		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Energy consumption outside the organization	Energy consumption and output	302-2		
Energy intensity	Carbon intensity	302-3		
Reduction of energy consumption	Energy efficiency	302-4	IF-EU-420a.3 Customer electricity savings from efficiency measures, by market IF-GU-420a.2 Customer natural gas savings from efficiency measures, by market	
Reductions in energy requirements of products and services	Energy efficiency	302-5		
Interactions with water as a shared resource	Water use and management	303-1		
Management of water discharge-related impacts	Water use and management Total number and volume of significant spills	303-2	IF-EU-140a.2 Number of incidents of noncompliance associated with water quantity and/or quality permits, standards and regulations	
Water withdrawal	Water use and management	303-3	IF-EU-140a.1 Water withdrawn, water consumed and percentage from water-stressed areas IF-EU-140a.3 Description of water management risks and discussion of strategies and practices to mitigate those risks	
Water discharge	Water use and management	303-4		
Water consumption	Water use and management	303-5		
Operational sites owned, leased, managed in or adjacent to protected areas and areas of high biodiversity value outside protected areas	Biodiversity	304-1		
Significant impacts of activities, products and services on biodiversity	Biodiversity	304-2		
Habitats protected or restored	Biodiversity	304-3		
IUCN Red List species and national conservation lists species with habitats in areas affected by operations	Biodiversity	304-4		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Direct greenhouse gas (GHG) emissions (Scope 1)	Net-zero goal-related emissions Other CO₂e Emissions	305-1	IF-EU-110a.1 a. Scope 1 emissions b. Percentage covered under emissions limiting regulations c. Percentage covered under emissions limiting regulations	Metrics and Targets b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks
Energy indirect greenhouse gas (GHG) emissions (Scope 2)	Net-zero goal-related emissions	305-2	IF-EU-110a.2 Greenhouse gas (GHG) emissions associated with power deliveries	Metrics and Targets b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks
Other indirect greenhouse gas (GHG) emissions (Scope 3)	Net-zero goal-related emissions Other CO₂e Emissions	305-3		Metrics and Targets b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks Metrics and Targets
Greenhouse gas (GHG) emissions intensity	Carbon intensity	305-4		
Reduction of greenhouse (GHG) emissions	Net-zero goal-related emissions Enabling clean energy resources	305-5	IF-EU-110a.3 Discussion of emissions reduction strategies IF-EU-110a.4 Number of customers served in markets subject to renewable portfolio standards (RPS) and fulfillment	
Emissions of ozone-depleting substances (ODS)	This is not material to PPL.	305-6		
NOx, SOx, and other significant air emissions	Air emissions	305-7	IF-EU-120a.1 a) NOx and SO ₂ b) Particulate Matter (PM10) c) Lead (Pb) d) Mercury (Hg)	

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Waste generation and significant waste-related impacts	Waste management	306-1		
Management of significant waste-related impacts	Waste management	306-2	IF-EU-150a.1 Amount of coal combustion residuals (CCR) generated, percentage recycled IF-EU-150a.2 Total number of coal combustion residual (CCR) impoundments, broken down by hazard potential classification and structural integrity assessment	
Waste generated	Waste management	306-3		
Waste diverted from disposal	Waste management	306-4		
Waste directed to disposal	Waste management	306-5		
New suppliers that were screened using environmental criteria	Supplier Code of Conduct	308-1		
Negative environmental impacts in the supply chain and actions taken	Supplier Code of Conduct	308-2		
Social				
New employee hires and employee turnover	Workforce planning	401-1		
Benefits provided to full-time employees that are not provided to temporary or part-time employees	Benefits	401-2		
Parental leave	PPL offers family-friendly parental and caregiver leave, including financial assistance for adoption and more flexibility with sick time, allowing employees to tend to family members or aging parents if the need arises. Eligible employees can take up to six consecutive weeks of paid leave following the birth or adoption of a child. In 2023, 38 women and 138 men used parental leave. A total of 171 employees returned to work, resulting in a 97.2% retention rate.	401-3		
Minimum notice periods regarding operational changes	Notice periods vary by collective bargaining agreement. We comply with applicable laws, regulations and collective bargaining agreements.	402-1		
Occupational health and safety management system	Safety programs	403-1		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Hazard identification, risk assessment, and incident investigation	Safety 2022 EEI-AGA ESG/Sustainability Report	403-2	<p>IF-GU-540a.1 Number of (1) reportable pipeline incidents, (2) Corrective Action Orders (CAO) and (3) Notices of Probable Violation (NOPV)</p> <p>IF-GU-540a.2 Percentage of distribution pipeline that is (1) cast and/ or wrought iron and (2) unprotected steel</p> <p>IF-GU-540a.3 Percentage of natural gas (1) transmission and (2) distribution pipelines inspected</p> <p>IF-GU-540a.4 Description of efforts to manage the integrity of natural gas delivery infrastructure, including risks related to safety and emissions</p>	
Occupational health services	Safety	403-3		
Worker participation, consultation, and communication on occupational health and safety	Safety programs	403-4		
Worker training on occupational health and safety	Safety programs	403-5		
Promotion of worker health	Safety	403-6		
Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	Safety	403-7		
Workers covered by an occupational health and safety management system	Safety	403-8		
Work-related injuries	Safety	403-9	IF-EU-320a.1 a. Occupational safety statistics	
Work-related ill health	Safety	403-10	IF-EU-320a.1 a. Occupational safety statistics	
Average hours of training per year per employee	Training and development	404-1		
Programs for upgrading skills and transition assistance programs	Training and development	404-2		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Percentage of employees receiving regular performance and career development reviews	PPL's expectations are that all eligible employees receive an evaluation of their skills and performance on an annual basis. The company's business units have formal performance appraisal processes that cover 100% of eligible active, full-time and part-time employees.	404-3		
Diversity of governance bodies and employees	Board composition Our employees	405-1		
Operations and suppliers identified in which the right to freedom of association and collective bargaining may be at risk	No risks to, or violations of, the right to freedom of association or the right to form or join a union, bargain collectively, or engage in union activities were identified. About 37% of PPL's workforce is represented by a labor union and the company's operating utilities collaborate with union leadership to enhance workplace safety, meet the growing expectations of our customers, and adapt to the challenges of rapidly changing technologies.	407-1		
Operations and suppliers at significant risk for incidents of child labor	None. We comply with applicable laws, rules and regulations wherever we operate.	408-1		
Operations and suppliers at significant risk for incidents of forced or compulsory labor	None. We comply with applicable laws, rules and regulations wherever we operate.	409-1		
Security personnel trained in human rights policies or procedures	All domestic Corporate Security personnel complete corporate <i>Standards of Integrity</i> training on an annual basis. Additionally, all domestic Corporate Security personnel complete a training program on indicators and response to workplace violence events at least bi-annually. All contract security personnel working domestically complete training programs on ethics and conduct and cultural diversity administered by their employer.	410-1		

DISCLOSURE	PPL'S RESPONSE	GRI	SASB	TCFD
Operations with local community engagement, impact assessments and development programs	100% of PPL's operations have programs for local community engagement. Stakeholder engagement Customer assistance Community support Economic development Energy equity, environmental justice and just transition	413-1	IF-EU-240a.3 Number of residential customer electric disconnections for nonpayment, percentage reconnected within 30 days IF-EU-240a.4 Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory	
New suppliers that were screened using social criteria	Supplier Code of Conduct	414-1		
Negative social impacts in the supply chain and actions taken	Supplier Code of Conduct	414-2		
Political contributions	Public Policy Engagement	415-1		
Assessment of health and safety impacts of product and service categories	Safety	416-1		
Incidents of non-compliance concerning the health and safety impacts of products and services	PPL does not publicly disclose this information.	416-2		
Requirements for product and service information and labeling	Electric and natural gas service cannot be labeled. We provide regular and detailed safety information to customers via bill inserts, public service announcements, presentations, social media and the company's websites.	417-1		
Incidents of non-compliance concerning marketing communications	PPL does not publicly disclose this information.	417-3	IF-EU-550a.1 Number of incidents of noncompliance with physical security and/or cybersecurity standards or regulations	
Substantiated complaints concerning breaches of customer privacy and losses of customer data	PPL does not publicly disclose this information.	418-1		

Electric Utilities Sector Disclosure					
Description	PPL's response	GRI	SASB	TCFD	SDG
Installed capacity, broken down by primary energy source and regulatory regime	Installed capacity	EU1			
Net energy output broken down by primary energy source and regulatory regime	Energy consumption and output	EU2			
Number of residential, industrial, institutional and commercial accounts	Customer experience Average customer bills	EU3	IF-EU-240a.2 a) Typical monthly electric bill for residential customers for 500 kWh of electricity delivered per month b) Typical monthly electric bill for residential customers for 1,000 kWh of electricity delivered per month IF-GU-240a.1 Average retail natural gas rate for c) residential customers d) commercial customers e) industrial customers f) transportation services only SASB: IF-GU-240a.2 Typical monthly gas bill for residential customers for (1) 50 MMBtu and (2) 100 MMBtu of gas delivered per year		
Length of above and underground transmission and distribution	About PPL	EU4			
Allocation of CO ₂ emissions allowances, or equivalent, broken down by carbon trading framework	None.	EU5			
Management approach to ensure short- and long-term electricity availability and reliability	PPL addresses availability and reliability in our integrated resource plans that are submitted to regulatory agencies. All PPL operating companies use smart grid technology across their networks.	G4-DMA Availability & Reliability	IF-EU-420a.2 Percentage of electric load served by smart grid technology		
Planned capacity against projected electricity demand over the long term, broken down by energy source and regulatory regime	Forecast demand for LG&E and KU is 6,172 MW, and LG&E and KU generation capacity is currently 7,579 MW, providing a 22.8% reserve margin.	EU10			
Demand-side management programs including residential, commercial, institutional and industrial programs	Where applicable, PPL addresses planned capacity and projected demand in integrated resource plans that are submitted to regulatory agencies. Energy efficiency	G4-DMA Demand Side Management			

Description	PPL's response	GRI	SASB	TCFD	SDG
Research and development activity and expenditure aimed at providing reliable electricity and promoting sustainable development	Drive digital innovation and R&D	G4-DMA Research & Development			
Average generation efficiency of thermal plants by energy source and regulatory regime	In 2023, the average generation efficiency for LG&E and KU was 9.8 (MMBtu/Net MWh).	EU11			
Transmission and distribution losses as a percentage of total energy	PPL's operating utilities use standard utility industry practices to review and identify line losses that are outside of industry norms and take necessary steps to mediate those issues as they occur. In 2023, line loss as a percentage of total energy was: 5.18% for KU 3.49% for LG&E (electric) 1.12% for LG&E (gas) 5.60% for PPL Electric 8.00% for RIE (electric) 3.80% for RIE (gas)	EU12			
Biodiversity of offset habitats compared to the biodiversity of the affected areas	Biodiversity	EU13			
Programs and processes to ensure the availability of a skilled workforce	Workforce strategy	G4-DMA Skilled Workforce			
Percentage of employees eligible to retire in next 5 and 10 years, broken down by job category and region	Workforce strategy	EU15			
Days worked by contractor and subcontractor employees involved in construction, operation and maintenance activities	Contractor safety	EU17			
Percentage of contractor and subcontractor employees who have undergone relevant health and safety training	PPL provides required health and safety-related training for 100% of the contractors performing physical work on our electric systems.	EU18			
Collaborative approaches to managing watersheds and reservoirs for multiple uses	Water use and management	G4-DMA Water			
Approaches for pest and vegetation management along transmission and distribution corridors	Vegetation management	G4-DMA Vegetation Management			
Stakeholder participation in decision making processes related to energy planning and infrastructure development	Stakeholder engagement	DMA Local Communities			
Number of people physically or economically displaced and compensation, broken down by type of product	We avoid displacement of anyone to the extent feasible by careful planning during the siting process of major projects. If displacement is unavoidable, we make fair compensation for any property transactions.	EU22			

Description	PPL's response	GRI	SASB	TCFD	SDG
Contingency planning measures, disaster/emergency management plan and training programs, and recovery/restoration plans	Emergency preparedness	DMA-Emergency Planning			
Programs, including those in partnership with government, to improve or maintain access to electricity and customer support services	Customer assistance	DMA-Customer Support Programs	<p>IF-EU-240a.4 Discussion of impact of external factors on customer affordability of electricity, including the economic conditions of the service territory</p> <p>IF-GU-240a.4 Discussion of impact of external factors on customer affordability of natural gas, including the economic conditions of the service territory</p>		
Percentage of population unserved in licensed distribution or service areas	PPL's utilities have an obligation to serve all that want electrical service in their service territory.	EU26			
Number of residential disconnections for non-payment, broken down by duration of disconnection and by regulatory regime	<p>Residential disconnections for PPL's electric utilities during 2023 totaled 138,548. The number of residential reconnections within 30 days was 118,732.</p> <p>Residential disconnections for PPL's gas utilities during 2023 totaled 7,024. The number of residential reconnections within 30 days was 5,214.</p>	EU27	<p>IF-EU-240a.3 Number of residential customer electric disconnections for nonpayment, percentage reconnected within 30 days</p> <p>IF-GU-240a.3 Number of residential customer gas disconnections for non-payment, percentage reconnected within 30 days</p>		
Power outage frequency	Reliability and resiliency Reliability	EU28	<p>IF-EU-550a.2</p> <p>a) System Average Interruption Duration Index (SAIDI)</p> <p>b) System Average Interruption Frequency Index (SAIFI)</p>		
Average power outage duration	Reliability and resiliency Reliability	EU29	<p>IF-EU-550a.2</p> <p>a) System Average Interruption Duration Index (SAIDI)</p> <p>b) System Average Interruption Frequency Index (SAIFI)</p>		
Average plant availability factor by energy source and by regulatory regime	LG&E and KU's plant availability factor is 87.71%. The unplanned outage rate for LG&E and KU plants in 2023 was 5.15%.	EU30			
Practices to address language, cultural, low literacy and disability related to barriers to accessing and safely using electricity and customer support services	Customer assistance	DMA-Customer access			

Additional Resources

[Annual report](#)

[Climate Assessment Report](#)

[Climate Assessment Report – Addendum](#)

[Diversity, equity and inclusion website](#)

[EEO-1 Report](#)

[Environmental Policy Statement](#)

[Form 10-K](#)

[Human Rights Statement](#)

[Investor Relations website](#)

[Privacy Policy](#)

[Proxy statement](#)

[Public Policy website](#)

[Standards of Integrity](#)

[Supplier Code of Conduct](#)

[Sustainability website](#)

Net-Zero Goal-Related Emissions (2010 Baseline)

	2010	2023
Scope 1: Gross MWh of Owned Generation (metric tonnes of CO ₂ e)	60,736,086 ¹	25,085,753
Scope 1: Fleet Vehicles (metric tonnes of CO ₂ e)	48,343	28,240
Scope 1: Small Plant Stationary Fuel Combustion Sources (metric tonnes of CO ₂ e)	2,515	2,384
Scope 1: Plant Mobile Equipment (metric tonnes of CO ₂ e)	4,893	5,373
Scope 1: Fugitive SF₆ Emissions (metric tonnes of CO ₂ e)	114,727	12,324
Scope 1: Gas Used in Facilities (stationary fuel combustion) (metric tonnes of CO ₂ e)	18,250	14,395
Scope 2: Electricity Use in Facilities (metric tonnes of CO ₂ e) ²	89,732	21,258
Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (MWh)	1,906,442	666,724
Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (metric tonnes of CO ₂ e)	1,597,157	592,165
Total Goal-Related Emissions (metric tonnes of CO ₂ e)	62,577,296	25,761,892

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

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

Other CO₂e Emissions

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

Carbon Intensity

	2023
Operating Revenues (in millions)	8,312
Revenue Carbon Intensity ¹	0.0031
Gross Generation Carbon Intensity ²	0.853

¹Total CO₂e goal-related emissions divided by revenue.

²Total CO₂e 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 Capacity¹

	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 ² (MW)	8

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

²Does 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 ₂ Emissions (metric tonnes)	12,087
Total SO ₂ 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

Total Water Withdrawal by Source

Plant	2023 Water Sources Affected by Withdrawal of Water						
	2023 Withdrawal (megaliters/year)	% Impact (water withdrawn compared to waterbody size)	2023 Discharge ¹ (megaliters/year)	Water Body	Waterbody Size (lake-megaliters or river-megaliters/day)	Consumption (megaliters/year) (withdrawal - discharge)	Total Volume of Water Recycled and Reused as a Percentage of Total Water Withdrawal
KU-Brown	13,563	0.011%	3,318	Herrington Lake (created by Dix River Dam)	324,405 ²	10,245	24.46%
KU-Ghent	97,772	0.242%	101,690	Ohio River	110,829 ³	-3,918 ⁴	104.01%
LG&E-Cane Run	4,739	0.011%	1,419	Ohio River	119,882 ³	3,320	29.94%
LG&E-Mill Creek	208,102	0.476%	223,427	Ohio River	119,882 ³	-15,325 ⁴	107.36%
LG&E-Trimble County	55,247	0.137%	19,240	Ohio River	110,829 ³	36,007	34.82%
Totals	379,422		349,093			30,329	92.01%

¹These numbers were calculated from annual averages of the NPDES-KPDES reported values for the Discharge Monthly Reports (DMR) or using process-specific flow information. Flows include discharges from ash ponds, cooling tower blowdown streams, once-through cooling flows and accumulated stormwaters within impoundments or collected/drainage process areas. These flows were returned to the same water bodies from which they were withdrawn; there are a number of other users located downstream and upstream of plant locations.

²Volume of lake during low-flow conditions (10Q7).

³Flow at relevant locations during 10Q7 low-flow conditions.

⁴Discharge exceeds withdrawal due to rainfall captured in metered impoundments.

Coal Combustion Products¹

	2023
CCP Production (million metric tonnes)	2.517
CCP Reuse	71.98%
Owned Net Generation (MWh)	29,422,636
CCP Intensity (million metric tonnes/owned)	0.086

¹ Does not include trash and NonPCB used oil recycling.

Total Weight of Waste by Type and Disposal Method

	2023
Hazardous Waste Generated (metric tonnes)	217.15
Non-Hazardous Waste Generated ¹ (metric tonnes)	40,489
Non-Hazardous Waste Diverted from Landfill (metric tonnes)	21,954
Universal Waste Generated (metric tonnes)	19.68
Universal Waste Recycled (metric tonnes)	19.68
Non-Hazardous Waste Diverted (percentage)	54%
Universal Waste Diverted (percentage)	100%

¹ Does not include trash and NonPCB used oil recycling.

Total Number and Volume of Significant Spills

Company	Number of Spills	Causes	Gallons
LKE	2	Equipment failure	30.5
LKE	2	Weather event	40
PPL EU	1	Equipment failure	30
PPL EU	2	Weather event	26.5
PPL EU	1	Third-party damage	30
RIE	1	Weather event	20
Total	9		177

2023 Employee Safety

	LG&E-KU	PPL	RIE	PPL CORP (Overall)
Total Hours Worked	5,709,917.5	4,926,163.0	2,422,782.0	13,058,862.5
Number of Lost-Day Cases	8	8	9	25
Lost-Time Incident Rate	0.28	0.32	0.74	0.38
Recordable Incident Rate	1.02	1.10	2.56	1.33
Work-Related Employee Fatalities	0	0	0	0

2023 Contractor Safety

	LG&E-KU	PPL	RIE	TOTAL
Total Hours Worked	7,607,192.0	3,410,248.5	822,420.0	11,839,860.5
Number of lost-day cases	7	7	1	15
Lost-Time Incident Rate	0.18	0.41	0.24	0.25
Recordable Incident Rate	0.97	0.76	0.73	0.84
Work-related fatalities	2	0	0	2

Customers

	LG&E-KU (Electric)	LG&E (Gas)	PPL EU	RIE (Electric)	RIE (Gas)	TOTAL
Residential	855,412	307,704	1,289,844	450,956	252,271	3,156,187
Commercial	150,836	26,920	187,947	64,200	24,592	454,495
Industrial	2,252	398	3,023	1,640	755	8,068
Municipals/Wholesale	3					3
Gas Transport		91				91
TOTAL	1,008,503	335,113	1,480,814	516,796	277,618	3,618,844

Average Monthly Electric Bill¹

Operating Company	Residential bill	Commercial bill	Industrial bill
Kentucky Utilities	\$119.50	\$1,805.00	\$35,406.00
Louisville Gas and Electric	\$120.39	\$1,784.00	\$35,856.00
PPL Electric Utilities	\$182.22	\$1,895.00	\$27,567.00
Rhode Island Energy	\$253.49	\$2,778.00	\$91,783.00

¹Average electric bill data is based on the following typical bill assumptions:
 Residential: 1,000 kWh per month usage.
 Commercial: 40-kW demand and 14,000 kWh per month usage.
 Industrial: 1,000-kW demand and 400,000 kWh per month usage.

Reliability

	LG&E-KU	PPL Electric	RIE	Total	US AVG ¹
SAIDI	73.70	91.47	52.77	78.84	131.1
SAIFI	0.70	0.64	0.67	0.67	1.09
CAIDI	105.29	142.45	78.97	118.32	120.2

SAIDI is the average outage duration (in minutes), excluding major events, per IEEE definition 1366.
 SAIFI is the average number of interruptions per customer, excluding major events, per IEEE definition 1366.
 CAIDI represents the average time (in minutes) required to restore service after a sustained interruption occurs, per IEEE definition 1366.

¹Based on 2022 data

Average Gas Rates (\$/CCF)

Operating Company	Residential rate	Commercial rate	Industrial rate
Louisville Gas and Electric	\$1.69	\$1.34	\$0.85
Rhode Island Energy	\$2.06	\$1.31	\$0.48

Average Yearly Gas Bill

Operating Company	Residential average yearly bill at 50 MMBtu	Residential average yearly bill at 100 MMBtu
Louisville Gas and Electric	\$868.66	\$1,479.29
Rhode Island Energy	\$1,003.55	\$2,007.09