

PPL Corporation

2021 Carbon Emissions and Intensity Data



Net-Zero Goal Related Emissions

Year	Scope 1: Gross MWh of Owned Generation Includes CO ₂ , N ₂ O and CH ₄ (metric tonnes of CO ₂ e)	Scope 1: Fleet Vehicles (metric tonnes of CO ₂ e)	Scope 1: Small Plant Stationary Fuel Combustion Sources not included in Stack Emissions (metric tonnes of CO ₂ e)	Scope 1: Plant Mobile Equipment (metric tonnes of CO ₂ e)	Scope 1: Fugitive SF ₆ Emissions (metric tonnes of CO ₂ e)	Scope 2: Electricity Use in Buildings (metric tonnes of CO ₂ e)	Scope 2: Gas Use in Buildings (metric tonnes of CO ₂ e)	Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (MWh)	Scope 3: Electricity Purchased for End Use Customers - LG&E and KU (metric tonnes of CO ₂ e)	Total Goal Related Emissions (metric tonnes of CO ₂ e)
2010	60,736,086 ¹	48,343	2,515	4,893	114,727	89,732	18,250	1,906,442	1,597,157	62,577,296
2017	28,407,677	47,630	8,984	4,893	90,107	69,781	18,311	530,829	470,110	29,083,085
2018	29,480,129	43,256	1,097	6,459	49,513	67,316	20,058	273,821	241,199	29,873,408
2019	26,740,576	46,646	4,056	5,898	88,669	30,646 ²	17,914	594,506	532,952	27,467,358
2020	24,971,324	45,524	2,297	5,157	43,616	25,712 ²	16,294	624,561	541,242	25,651,166
2021	26,369,339	24,982	4,411	5,696	10,436	18,626 ²	13,573	243,296	219,132	26,666,195

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

²LG&E and KU's emissions captured in Scope 1 Gross MWh.

Other CO₂e Emissions

Year	Scope 1: Gas Operations (metric tonnes of CO ₂ e)	Scope 3: Electricity Purchased for End Use Customers - PPL Electric (MWh)	Scope 3: Electricity Purchased for End Use Customers - PPL Electric (metric tonnes of CO ₂ e)	Scope 3: Gas Purchased for End Use Customers - LG&E (MMCUFT)	Scope 3: Gas Purchased for End Use Customers - LG&E (metric tonnes of CO ₂ e)	Scope 3: Employee Commuting ¹ (metric tonnes of CO ₂ e)	Scope 3: Business Travel ¹ (metric tonnes of CO ₂ e)
2010		15,980,340	7,263,132	44,546	2,389,400		
2017	28,132	9,134,536	4,110,251	40,656	2,034,406		
2018	29,040	10,263,461	4,415,253	46,474	2,267,656		
2019	27,909	10,884,062	4,383,993	45,182	2,230,727	15,654	1,824
2020	22,204	10,705,000	4,132,207	41,589	2,002,542	11,158	613
2021	22,118	11,307,000	4,056,857	43,273	2,059,996	9,113	623

¹Emission data for PPL Electric, LG&E and KU and PPL Services.

Key Adjustments: The 2021 reporting year does not include WPD emissions, which has contributed to one-time reductions in Scope 1: Fleet Vehicles, Scope 1: Fugitive SF₆ Emissions, Scope 2: Electricity Use in Buildings and Scope 2: Gas Use in Buildings. LG&E and KU Purchased Power for End Use Customers is now reported as Scope 3; emissions will remain part of PPL's 2050 goal. The 2010 baseline data remains unchanged after the sale of WPD, which had a minor contribution to overall emissions. Further adjustments are expected in 2022 resulting from the anticipated addition of Rhode Island operations.

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Carbon Intensity

Year	USD Million Sales (in millions)	Revenue Carbon Intensity ¹	Owned Net Generation ² (MWh)	Gross Generation Carbon Intensity ⁴
2010				
2017	\$7,447	0.00391	32,704,089	0.869
2018	\$7,785	0.00384	34,546,832	0.853
2019	\$7,769	0.00354	32,282,872	0.828
2020	\$7,607	0.00337	29,916,634	0.835
2021	\$5,783	0.00461	31,336,074 ³	0.842 ⁵

¹Total CO₂e goal-related emissions divided by revenue.

²Net Generation data excludes LG&E and KU Purchased Power. Includes 75% Trimble County Unit 1 & 2 ownership.

³Owned Net Generation includes 176,372 MWh generated by Safari Energy, LLC.

⁴Total CO₂e associated with gross owned generation divided by net generation.

⁵Emissions intensity for LG&E and KU equals 0.846.

Other Air Emissions

Year	Owned Net Generation ¹ (MWh)	Total NOx Emissions (metric tonnes)	Total NOx Emissions Intensity (metric tonnes/owned net MWh)	Total SO ₂ Emissions (metric tonnes)	Total SO ₂ Emissions Intensity (metric tonnes/owned net MWh)	Total HG Emissions (kg)	Hazardous Air Pollutants Intensity (kg/owned net MWh)	Particulate Matter (metric tonnes)
2017	32,704,879	15,710	0.00048	13,499	0.00041	77	2.35E-6	1,900
2018	34,546,832	17,329	0.00050	16,698	0.00048	71	2.06E-6	2,241
2019	32,282,872	14,633	0.00045	13,487	0.00042	55	1.70E-6	1,653
2020	29,916,634	11,948	0.00040	13,194	0.00044	48	1.60E-6	643
2021	31,336,074 ²	12,571	0.00040	15,225	0.00049	46	1.48E-6	605

¹Net Generation data excludes Purchased Power. Includes 75% Trimble County Unit 1 & 2 ownership.

²Net Generation includes 176,372 MWh generated by Safari Energy, LLC.