

The data behind our ESG efforts.

The following tables compare our year-to-year Environmental, Social and Governance (ESG) performance across key data points. They align with and supplement our [annual ESG reports](#).

Our company.

Crown Castle works in every major US market to build, operate and maintain the communications infrastructure that supports the essential connections people, communities and businesses rely on every day. We own, operate and lease a portfolio of over 40,000 towers, approximately 120,000 small cells on air or under contract and approximately 85,000 route miles of fiber throughout the US.

We were founded in 1994, and today operate as a real estate investment trust (REIT) that leases space on our shared infrastructure through long-term contracts with our customers. Our business model not only makes economic sense but is a more sustainable means of meeting today’s growing connectivity needs. It’s a tangible representation of our long-standing ESG commitment.

We are headquartered in Houston, TX, with several additional office locations in the communities we serve throughout the US.

Driving toward carbon neutrality.

Our shared infrastructure model is inherently sustainable, as it allows us to build once and serve multiple customers with the same assets—reducing the use of natural resources. Building on that strong foundation, we continue to invest in energy reduction initiatives, source renewable energy and, to a lesser extent, utilize high-quality carbon offsets—which we believe puts us on track to reach our goal of being carbon neutral in Scope 1 and 2 emissions by 2025. We have reported 2022 Scope 3 emissions from waste generated in operations and are currently finalizing the calculation of our first comprehensive Scope 3 emissions inventory.

Greenhouse Gas (GHG) Emissions^{1,2}

	2020	2021	2022
GHG Emissions (MtCO₂e)			
Scope 1	13,979	13,052	13,328
Scope 2³			
Market-based (with renewables)	—	—	18,609
Location-based	63,821	57,787	60,329
Scope 3⁴			
Category 5: Waste generated in operations	—	—	647

¹ Based on an operational control approach, as defined by WRI GHG Protocol and scope guidance. Boundaries include all material operating locations. ² We used emission factors from 40 CFR Part 98 Tables C-1 and C-2 and EPA eGRID factors. Global Warming Potential documented in the Intergovernmental Panel on Climate Change AR5 report was used to calculate CO₂e for methane (CH₄) and nitrous oxide (N₂O). ³ Our 2022 Scope 2 emissions were calculated using WRI GHG Protocol’s market-based method. We also calculated 2022 Scope 2 emissions, as well as all prior years’ Scope 2 emissions, using WRI GHG Protocol’s location-based method. ⁴ In 2020 and 2021, prolonged office closures stemming from Covid-19 significantly reduced our waste generation, such that the data was not representative of our typical waste-generating activities. As such, we have elected not to report waste generation data for those years. In 2022, many of our employees returned to the office in a hybrid capacity (mix of remote and in-office work), with some employees remaining fully remote, so we adjusted our calculation methodology to project waste generated and recycled both in Crown Castle offices (owned and leased) and remotely (e.g., employees working from home). This is a change from our previous approach of reporting waste generated at Crown Castle’s owned office locations.

Fuel Consumption^{5,6}

	2020	2021	2022
Natural Gas (therms)			
Offices and Warehouses ⁷	346,122	380,520	362,838
Generators	8,347	14,725	11,478
Total Natural Gas	354,469	395,245	374,316
Diesel, Gasoline and Propane (MMBtu)			
Fleet ⁸	132,050	116,729	130,444
Generators	13,963	16,349	22,299
Offices and Warehouses ⁷	6,336	4,560	—
Total Diesel, Gasoline and Propane	152,349	137,638	152,743
Total Combined Fuel Consumption (gigajoules)	198,126	186,906	200,635

Consolidated Electricity Use

	2020	2021	2022
Electricity (kWh)			
Towers ⁹	71,753,219	72,485,536	72,518,291
Small Cells and Fiber ^{10,11}	67,877,983	72,145,362	65,133,975
Offices and Warehouses ⁷	39,680,535	30,766,147	29,959,989
Total Electricity (kWh)	179,311,737	175,397,045	167,612,255
Total Electricity (gigajoules)	645,522	631,429	603,404
Renewable Electricity Contracted (kWh)	—	—	114,193,000
% Renewable Electricity ¹²	0%	0%	68%

LED Lighting^{13,14}

	2020	2021	2022
Total towers upgraded to LED	6,390	6,950	7,234
Total lit towers	12,059	12,101	12,117
Percentage converted	53%	57%	60%

⁵ Based on an operational control approach, as defined by WRI GHG Protocol and scope guidance. Boundaries include all material operating locations. ⁶ Where actual consumption data was not available, we used a sampling approach or public information, such as equipment fuel efficiency and power ratings, to estimate fuel and energy consumption. ⁷ Based on actual consumption data for offices, owned and leased square footage, and estimates derived from nationwide energy-intensity statistics from the Energy Information Administration's (EIA's) Commercial Building Energy Consumption (CBEC) Survey for the remainder of the offices. ⁸ Based on estimated allocation between diesel and gasoline vehicles. ⁹ Electricity consumption and resulting emissions associated with HVAC systems situated in ground shelters at our tower sites are calculated based on the applicable energy consumption factors for each type of HVAC unit (e.g., central air, window unit, etc.) that was in operation in 2022 at such sites, taking into account assumptions regarding (i) customer tenancy at company-owned shelters, (ii) customer reliance (or lack thereof) on our HVAC units and (iii) HVAC system operations in unoccupied shelters. ¹⁰ Prior to 2022, our calculation of electricity consumption associated with fiber points of presence (POPs) included adjustments for power usage effectiveness (PUE), which accounted for auxiliary energy use at leased POP locations in our Scope 2 inventory. Upon further review, we determined that as the lessor, we do not have operational control over our leased POP locations because we do not have the authority to introduce and implement operating policies. As such usage falls outside of our operational boundary, prior years' electricity consumption and the resulting emissions calculation were overstated. The 2022 Scope 2 calculations reflect auxiliary energy use only at owned POP locations where Crown Castle is assumed to have operational control. ¹¹ Prior to 2022, the electricity consumption calculation for a limited number of iDAS venues did not include electricity supplied by the venue operator for the benefit of Crown Castle, the costs of which were not passed through to Crown Castle. For the 2022 Scope 2 calculation, we estimated Crown Castle's electricity consumption with respect to such venues, which was based upon average tenant electricity utilization across other iDAS venues. ¹² Percentage calculated using reported annual renewable energy contracted compared with reported annual electricity consumption. ¹³ Percentages calculated based on the total lit tower count as of December 31 of each year represented. ¹⁴ The number of total lit towers is subject to slight fluctuations year-over-year as the result of regulatory changes.

Accountability through strong governance.

Our strong corporate governance framework reinforces our commitment to accountability and integrity. This table demonstrates our commitment to maintaining a diverse board—ensuring oversight of our strategies and operations and promoting ethical behavior across our business.

Board of Directors¹⁵

	2020	2021	2022
Number of board directors	15	12	10
Number of independent board directors	13	10	8
Independent board chair	Yes	Yes	Yes
Average tenure for board directors	11.9	10.3	8.6
Average age of board directors	62.5	59.9	57.6
Percentage of board directors that are women and/or People of Color	40%	50%	60%

¹⁵ Reflects information based on the members of the company's board of directors serving as of December 31st of each respective year.