



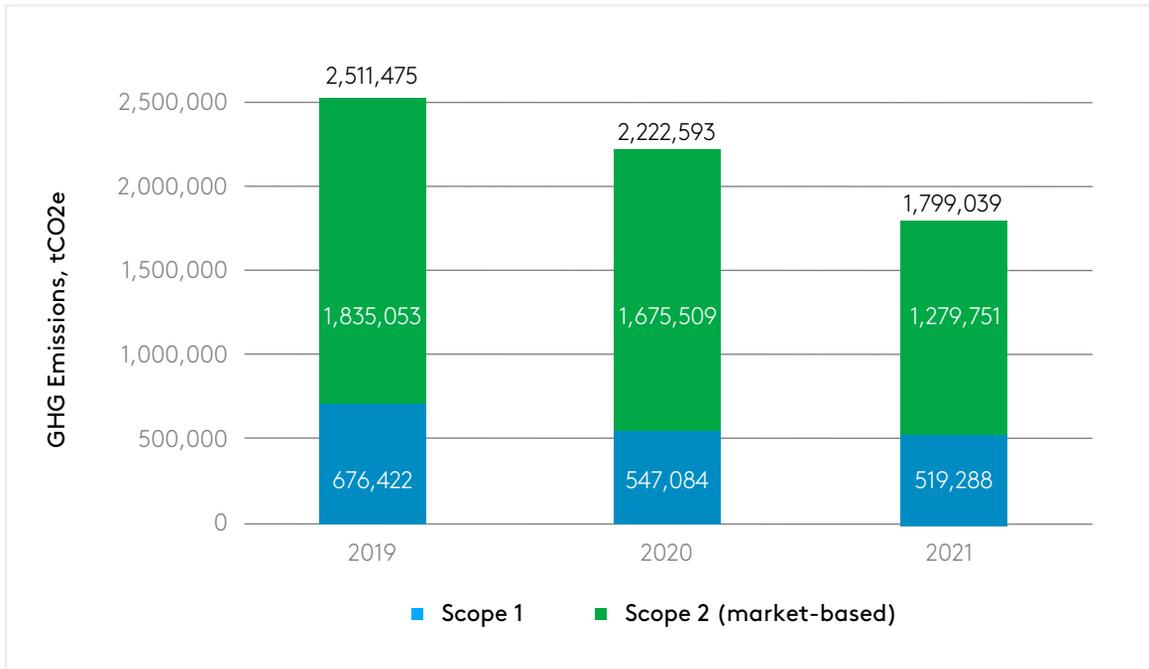
2022 Carbon Footprint Data Report

This Report includes data from calendar years 2019 through 2021. Learn more about our environmental goals and impact on the **Environment page** of our website. Inclusion of information in the materials in this Report and on our website should not be construed as a characterization of the materiality or financial impact of that information with respect to our company.



Comcast Scope 1 and 2 Market-Based Greenhouse Gas Emissions

During 2021, greenhouse gas emissions, tCO₂e, decreased by 19% primarily as a result of our increased use of renewable energy, a reduction in global electricity grid emissions, and our continued effort to reduce energy usage.



Organizational Boundaries

The energy and greenhouse gas (“GHG”) reporting boundary for the information in this report is for Comcast Corporation and its consolidated subsidiaries, including Comcast Cable Communications, NBCUniversal Media, and Sky (collectively “Comcast”).

To establish the activities and relevant assets for purposes of its GHG inventory, Comcast used the Operational Control approach, as defined by the World Resource Institute (“WRI”) and World Business Council for Sustainable Development (“WBCSD”) Greenhouse Gas Protocol’s Corporate Accounting and Reporting Standard – Revised Edition (“GHG Protocol”). Per the GHG Protocol, Operational Control over an operation exists where a company has full authority to introduce and implement operating policies at the operation. Included within this scope are consolidated joint ventures where we have operational control.

Emission Data

The emission data in this report includes certain estimates that are based on a combination of measured and estimated emissions data using reasonably available information at the time, as described in additional detail in the table below. As with any projections or estimates, actual results or numbers may vary based upon factors such as variations in processes and operations, availability and quality of data, and methodologies used for measurement and estimation. Changes to emission estimates may occur if updated data or emission methodologies become available.

| Key performance indicator | Unit | 2019 | 2020 | 2021 |
|-------------------------------------------------------------------------|-------------------------------|-----------|-----------|-----------|
| Greenhouse gas emissions¹ | | | | |
| Scope 1 ^{2,3} | tCO ₂ e | 676,422 | 547,084 | 519,288 |
| Scope 2 (market-based) ^{4,5} | tCO ₂ e | 1,835,053 | 1,675,509 | 1,279,751 |
| Scope 2 (location-based) ^{4,6} | tCO ₂ e | 1,863,480 | 1,743,564 | 1,551,747 |
| Total Scope 1 and Scope 2 market-based | tCO ₂ e | 2,511,475 | 2,222,593 | 1,799,039 |
| Total Scope 1 and Scope 2 location-based | tCO ₂ e | 2,539,902 | 2,290,648 | 2,071,035 |
| Carbon intensity | | | | |
| Revenue | \$ million | 108,942 | 103,564 | 116,385 |
| Carbon emissions per \$ million revenue ⁷ | tCO ₂ e/\$ million | 23.1 | 21.5 | 15.5 |
| Energy | | | | |
| Energy from fuel consumption ⁸ | MWh | 2,381,976 | 2,062,394 | 1,907,571 |
| Grid electricity | MWh | 4,740,096 | 4,434,339 | 4,180,378 |
| On site renewable generation consumed and renewable attributes not sold | MWh | 6,119 | 6,362 | 7,317 |
| On site renewable generation consumed and renewable attributes sold | MWh | 1,178 | 1,667 | 2,937 |
| Total energy consumed ^{9,10} | MWh | 7,129,369 | 6,504,762 | 6,098,203 |
| Percent grid electricity ⁹ | % | 66.5 | 68.2 | 68.6 |
| Energy intensity | | | | |
| Energy intensity per \$ million revenue | MWh/\$ million | 65.4 | 62.8 | 52.4 |
| Renewable energy¹¹ | | | | |
| Energy attribute certificates ¹² | MWh | 140,705 | 248,496 | 655,227 |
| On site renewable generation consumed and renewable attributes not sold | MWh | 6,119 | 6,362 | 7,317 |
| Total renewable energy | MWh | 146,824 | 254,858 | 662,544 |
| Percent renewable energy ⁹ | % | 2.1 | 3.9 | 10.9 |
| Percent renewable electricity ⁹ | % | 3.1 | 5.7 | 15.8 |

- 1 Comcast calculates its GHG emissions inventory based on the WRI/WBSCD GHG Protocol and the WRI/WBSCD GHG Protocol Scope 2 Guidance – an amendment to the GHG Protocol Corporate Standard. Comcast includes carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and hydrofluorocarbons (HFCs) for Scope 1 and CO₂, CH₄ and N₂O for Scope 2. Sulfur hexafluoride (SF₆) is not present in Comcast's operations. Biogenic emissions are not reported in either Scope 1 or Scope 2 emissions. To calculate GHG emissions in CO₂ equivalents (CO₂e) for Scope 1 and Scope 2 emissions, Comcast uses the Global Warming Potentials ("GWP") from the IPCC Fourth Assessment Report ("AR4").
- 2 Scope 1 emissions include GHG emissions from stationary combustion sources such as from heating, emergency generators and cooking operations, mobile combustion sources from fleet, and fugitive and refrigerant emissions. For stationary combustion, fugitive and refrigerant emissions, actual data from invoices or similar records are used to calculate the respective GHG emissions. When actual data is not available for certain sources or locations, Comcast estimates usage using proxy data primarily based on actual data from similar sites and assets or by utilizing industry standards such as the U.S. Energy Information Administration's ("EIA") Commercial Buildings Energy Consumption Survey ("CBECS"). For mobile combustion, direct fuel consumption data obtained through various mechanisms (e.g., fuel cards, fuel logs) is used to calculate GHG emissions. For vehicles, when actual fuel usage data is not available, Comcast estimates usage using proxy data primarily based on actual data from similar fleet.
- 3 Emission factors used in the 2021 Scope 1 emissions calculations include U.S. EPA Climate Leaders, Emissions Factors for Greenhouse Gas Inventories (April 2021), UK Government (DEFRA/BEIS) Greenhouse Gas Conversion Factors for Company Reporting (June 2021), Japan's Ministry of Environment Combustion Factors (April 2021) and China's Ministry of Ecology & Environment (December 2020). See the 2020 Carbon Footprint Data Report for relevant factors used in 2019 and 2020 emissions calculations.
- 4 Scope 2 emissions include GHG emissions from purchased electricity, heat, steam and cooling. For purchased electricity, heat, steam and cooling, Comcast uses usage specified in invoices, when available, to calculate GHG emissions. Similar to Scope 1 emissions, when actual data is not available, Comcast estimates the usage using proxy data primarily based on actual data from similar sites and assets. Purchased electricity is also used for power supplies to power the cable network. Emissions from power supplies are calculated or estimated based on real-time monitoring data.
- 5 For Scope 2 market-based emissions, Comcast follows the hierarchy outlined in Table 6.3 of the WRI/WBSCD GHG Protocol Scope 2 Guidance for selecting appropriate emission factors. In countries where reliable residual mix factors are not available, Comcast uses the regional grid averages to calculate market-based emissions. Emission factors used in 2021 Scope 2 market-based calculations include Association of Issuing Bodies: Version 1.0 2020 European Residual Mixes (May 2021), Japan's Ministry of Environment Combustion Factors (April 2021), and applicable factors used in the location-based method. See the 2020 Carbon Footprint Data Report for relevant factors used in 2019 and 2020 emissions calculations.
- 6 To calculate Scope 2 location-based emissions, only regional and national grid mixes are utilized. Calculations do not reflect any renewable energy purchasing choices made by Comcast. Emission factors used in 2021 Scope 2 location-based method calculations include U.S. EPA's 2019 Emissions & Generation Resource Integrated Database ("eGRID2019") (February 2021), U.S. EPA Climate Leaders, Emissions Factors for Greenhouse Gas Inventories (April 2021), U.S. Energy Star Portfolio Manager Technical Reference (August 2021), IEA Statistics Data Service: 2019 Emission Factors (September 2021), UK Government (DEFRA/BEIS) Greenhouse Gas Conversion Factors for Company Reporting (June 2021) and Japan's Ministry of the Environment Emissions Factor by Electric Power Company (Apr 2021). See the 2020 Carbon Footprint Data Report for relevant factors used in 2019 and 2020 emissions calculations.
- 7 Carbon intensity is calculated based on Scope 1 and Scope 2 market-based emissions.
- 8 Includes energy use related to natural gas, propane, diesel, gasoline, fuel oil, biodiesel, kerosene, liquefied petroleum gas, liquefied natural gas, aviation gasoline, compressed natural gas, ethanol, jet fuel, heating, cooling and steam. Where applicable, fuel use is converted to MWh.
- 9 Comcast calculates these metrics in alignment with Sustainability Accounting Standards Board ("SASB") metric TC-TL-130a.1. For the renewable energy percentage, the numerator excludes grid-supplied renewable energy, which is outside of the control or influence of Comcast. The denominator is total energy consumption, inclusive of energy from direct fuel usage as well as purchased electricity, steam, heat and cooling. An alternate calculation of total renewable electricity using only total electricity consumption in the denominator is also presented.
- 10 Total energy consumed converted to GJ is 21,953,532 GJ in 2021, 23,417,144 GJ in 2020 and 25,665,729 GJ in 2019.
- 11 Comcast utilizes SASB's definition of renewable energy, which is "energy from sources that are replenished at a rate greater or equal to their rate of depletion, such as geothermal, wind, solar, hydro and biomass."
- 12 Energy attribute certificates ("EACs") are a category of contractual instruments that represent the attributes of one megawatt-hour ("MWh") of renewable electricity generated. EACs include but are not limited to Renewable Energy Certificates ("RECs") and Guarantees of Origin ("GOs"). EACs are generated from renewable energy projects (e.g., solar or wind farm) and can be obtained through long-term contracts (such as green tariffs, PPAs, vPPAs, and other retail renewable energy products) from new renewable energy assets that convey RECs or GOs with the contract, or from existing renewable assets (through supplier contracts or unbundled EAC purchases in the open market). EACs are only taken into account in Scope 2 market-based emission calculations.