| 2019 13.642.001 11.750.577 1.856.840 34.584 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 12.455.075 10.700.948 1.721.143 32.984 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 12.459.912 10.900.352 1.525.332 34.227 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 12.609.083 11.156.415 1.420.618 32.050 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 2024 12.677.105 11.274.296 1.371.465 31.344 11.817.213 8.308.256 91.283 127 906.514 2.511.033 859.892 |
|--|--|---|---|---|
| 11.750.577 1.856.840 34.584 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 10.700.948 1.721.143 32.984 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 10.900.352 1.525.332 34.227 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 11.156.415 1.420.618 32.050 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 11.274.296 1.371.465 31.344 11.817.213 8.308.256 91.283 127 906.514 2.511.033 |
| 11.750.577 1.856.840 34.584 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 10.700.948 1.721.143 32.984 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 10.900.352 1.525.332 34.227 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 11.156.415 1.420.618 32.050 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 11.274.296 1.371.465 31.344 11.817.213 8.308.256 91.283 127 906.514 2.511.033 |
| 1.856.840 34.584 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 1.721.143 32.984 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 1.525.332 34.227 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 1.420.618 32.050 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 1.371.465 31.344 11.817.213 8.308.256 91.283 127 906.514 2.511.033 859.892 |
| 34.584 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 32.984 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 34.227 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 32.050 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 31.344 11.817.213 8.308.256 91.283 127 906.514 2.511.033 859.892 |
| 12.985.973 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 11.872.054 8.129.563 184.151 286 942.512 2.615.542 583.022 299.879 | 11.960.859 8.337.077 111.137 246 976.262 2.536.138 499.052 | 11.868.593 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 11.817.213 8.308.256 91.283 127 906.514 2.511.033 859.892 |
| 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 8.129.563 184.151 286 942.512 2.615.542 583.022 583.022 299.879 | 8.337.077 111.137 246 976.262 2.536.138 499.052 499.052 | 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 8.308.256 91.283 127 906.514 2.511.033 859.892 |
| 8.719.734 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 8.129.563 184.151 286 942.512 2.615.542 583.022 583.022 299.879 | 8.337.077 111.137 246 976.262 2.536.138 499.052 499.052 | 8.345.769 114.190 153 870.254 2.538.227 740.490 740.490 | 8.308.256 91.283 127 906.514 2.511.033 859.892 |
| 242.553 53 1.197.874 2.825.760 656.028 656.028 377.169 | 184.151 286 942.512 2.615.542 583.022 583.022 299.879 | 111.137 246 976.262 2.536.138 499.052 499.052 | 114.190 153 870.254 2.538.227 740.490 740.490 | 91.283 127 906.514 2.511.033 859.892 |
| 53 1.197.874 2.825.760 656.028 656.028 377.169 | 286 942.512 2.615.542 583.022 583.022 299.879 | 246 976.262 2.536.138 499.052 499.052 | 153 870.254 2.538.227 740.490 740.490 | 127 906.514 2.511.033 859.892 |
| 1.197.874 2.825.760 656.028 656.028 377.169 | 942.512 2.615.542 583.022 583.022 299.879 | 976.262 2.536.138 499.052 499.052 | 870.254 2.538.227 740.490 740.490 | 906.514 2.511.033 859.892 |
| 2.825.760 656.028 656.028 377.169 | 2.615.542 583.022 583.022 299.879 | 2.536.138 499.052 499.052 | 2.538.227 740.490 740.490 | 2.511.033 859.892 |
| 656.028 656.028 377.169 | 583.022 583.022 299.879 | 499.052 499.052 | 740.490 740.490 | 859.892 |
| 656.028 377.169 | 583.022 299.879 | 499.052 | 740.490 | |
| 377.169 | 299.879 | | | 859.892 |
| | | 304.580 | | |
| 143.717.415 | | | 534.308 | 548.401 |
| | 140.912.781 | 150.914.463 | 155.060.112 | 151.117.258 |
| 134.123.150 | 131.756.864 | 140.785.917 | 146.055.905 | 142.056.821 |
| 7.608.166 | 7.703.577 | 8.667.008 | 7.878.693 | 7.984.322 |
| 1.986.099 | 1.452.340 | 1.461.538 | 1.125.514 | 1.076.114 |
| | | | | |
| 8.154.413 | 7.526.443 | 7.186.107 | 6.984.077 | 7.029.552 |
| 7.499.395 | 6.944.025 | 6.687.894 | 6.246.251 | 6.173.291 |
| 655.018 | 582.418 | 498.212 | 737.827 | 856.261 |
| 64.230 | 59.418 | 52.252 | 48.297 | 46.577 |
| 62 | 28 | 233 | 424 | 330 |
| 35,51 | 1 37,09 | 35,47 | 33,57 | 34,66 |
| 5.487.588 | 4.928.633 | 5.273.805 | 5.625.006 | 5.647.553 |
| 5.486.578 | 4.928.029 | 5.272.965 | 5.622.342 | 5.643.922 |
| 1.009 | | 840 | 2.664 | 3.631 |
| 2.023 | 2.024 | 1.991 | 2.015 | 2.074 |
| - | - | - | - | - |
| | 38,17 | 40,41 | 36,80 | 37,29 |
| ;) | 64.230 62 35,5 5.487.588 5.486.578 1.009 2.023 | 64.230 59.418 62 28 28 37,09 35,51 37,09 5.487.588 4.928.633 5.486.578 4.928.029 1.009 604 2.023 2.024 - | 64.230 59.418 52.252 28 233 233 35,47 37,09 35,47 5.487.588 4.928.633 5.273.805 1.009 604 840 2.023 2.024 1.991 | 64.230 59.418 52.252 48.297 62 28 233 424 (5) 35,51 37,09 35,47 33,57 5.487.588 4.928.633 5.273.805 5.625.006 5.486.578 4.928.029 5.272.965 5.622.342 1.009 604 840 2.664 2.023 2.024 1.991 2.015 |

General note:

Ecopetrol's Scope 1, 2, and 3 greenhouse gas (GHG) emissions inventory is structured under an operational control approach, including Cartagena refinery. The report is consolidated from information provided by operational areas, and projections are made based on the average of the current year for some emissions sources that do not have complete activity data as of December 2024. Ecopetrol seeks to continue improving its processes and systems to ensure this report has as much real information as possible.

- (1). Total scopes 1 and 2 GHG emissions.
- (2). GHG emissions were calculated using global warming potential (GWP) factors from the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC, 2014) on a 100-year time horizon.
- (3). Scope 2 emissions only include electricity imports because Ecopetrol does not purchase any other types of energy, such as steam, heating, or cooling.
- (4). Scope 2 emissions are reported using market-based method, which includes emissions generated by electricity imports from both the National Interconnected System (SIN, from its Spanish acronym) and local generation centers. While Ecopetrol calculates scope 2 emissions by location-based method, which is estimated using the SIN emission factor for all electricity purchases, it is decided to report by market-based method because it provides a higher result and better describes the operational reality. It should be highlighted that electricity purchase from local suppliers is favored for reasons such as: facilities location in areas with deficient national electrification, low reliability of the system, or in some cases due to the use of gas in the decarbonisation plan framework.
- (5). Since 2021, Ecopetrol has estimated its Scope 3 emissions inventory for each GHG Protocol category that applies to the business. Over the entire historical series, categories 11 and 1 have contributed to more than 99% of total Scope 3 emissions.
- (6). Upstream carbon intensity is calculated by dividing scopes 1 and 2 emissions generated in the segment by net production, which includes crude oil, gas, and whites, expressed in terms of barrels of oil equivalent (BOE). Downstream carbon intensity is calculated by dividing scopes 1 and 2 emissions generated in the segment by the annual input streams (load) to Barrancabermeja and Cartagena refineries, expressed in terms of barrels of oil equivalent (BOE). Both intensities are calculated under operational control approach.