

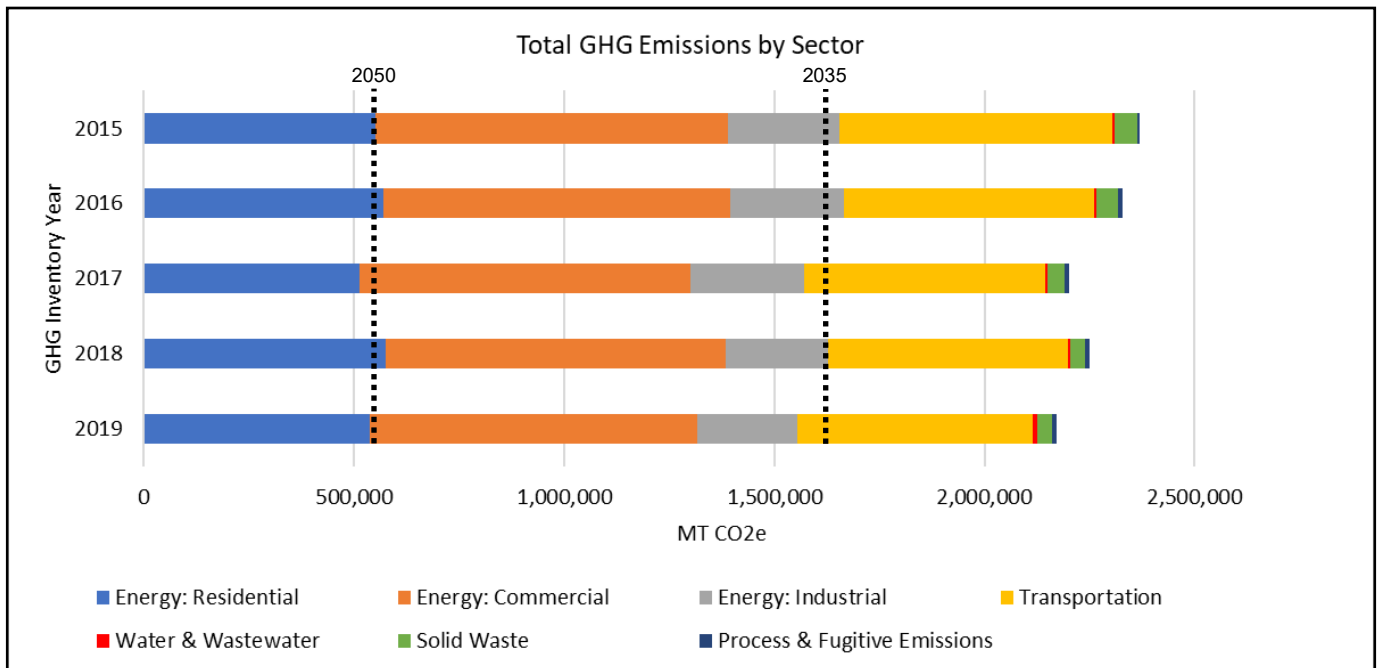
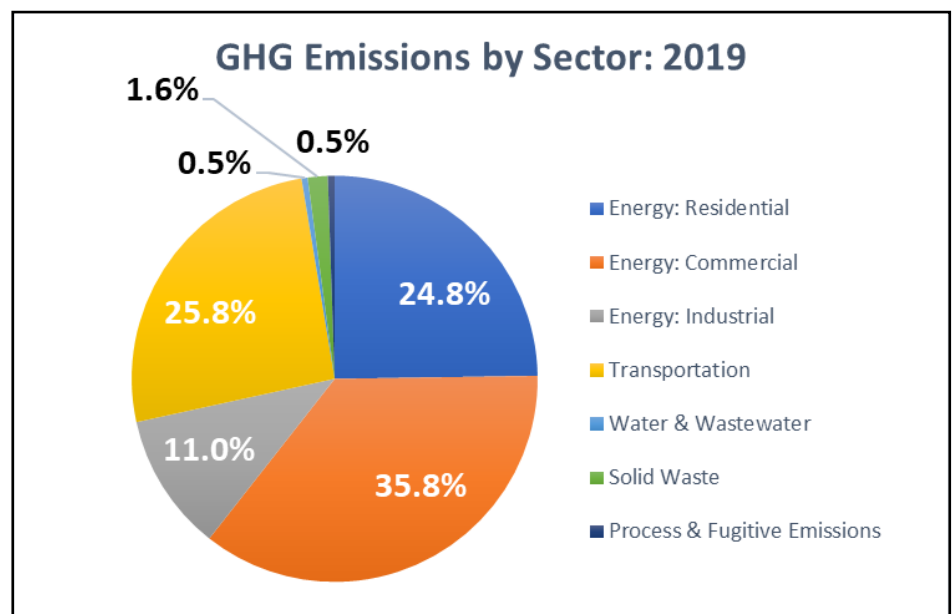


Figure 1 (above): Total community greenhouse gas (GHG) emissions have decreased by 8.3% between 2015 and 2019. We will need to reduce our community emissions by 632,485 MT CO₂e between 2020 and 2035 to reach our first benchmark goal, a 35% reduction from the 2015 inventory by 2035.

Figure 2 (right): Sectors can be prioritized based on their impact on the total GHG emissions. These percentages have slightly changed year-to-year, but the order has not changed. Most GHG emissions are in the energy and transportation sectors, while solid waste and other emissions remain at less than 3% of the total.



The sectors that contribute the most to our GHG emission totals, energy and transportation, have decreased between 2015 and 2019. The only sectors that increased between these two inventory years were “Water & Wastewater” and “Process & Fugitive Emissions.” The water-related emissions are mainly calculated based on population and BOD₅ load. The process and fugitive emissions are based on natural gas usage, with the assumption that there is a 0.3% leakage rate for all natural gas usage.

Figure 3 (right): The population in Columbia continues to increase every year. The population in 2015 was 119,098 people, and we estimate that the population in 2019 was around 125,049 people. Since the population is increasing every year and the GHG emissions are decreasing, we can expect that the emissions per capita will decrease at a higher rate than the total emissions in our inventories.

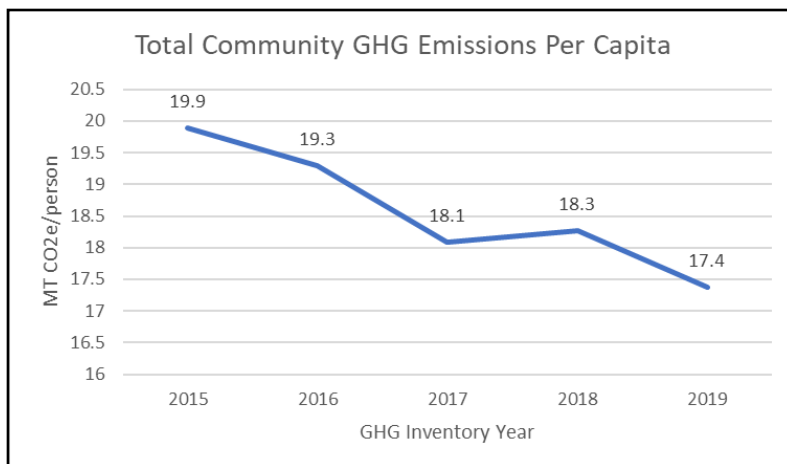
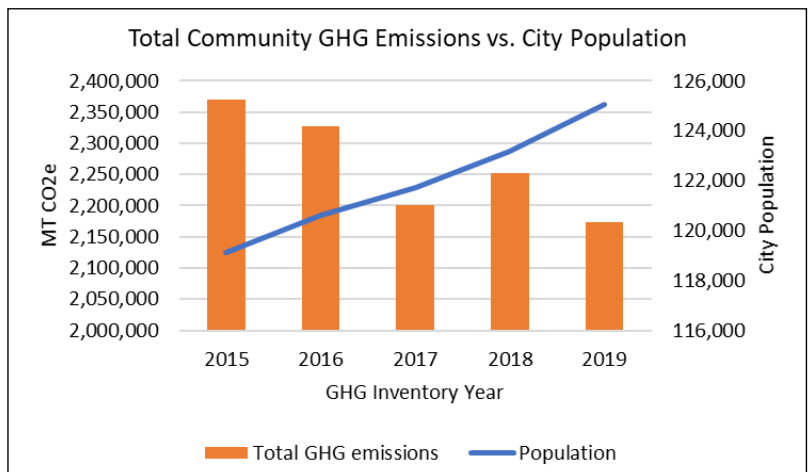


Figure 4 (left): The GHG emissions per capita have decreased by 12.7%, from 19.9 MT CO₂e/person in 2015 to 17.4 MT CO₂e/person in 2019.

Figure 5 (below): Other jurisdictions (e.g. cities and states) can be compared using the calculated GHG emissions per capita. When compared to other large cities in Missouri, it appears that Columbia has lower emissions per capita. However, it is important to note that these data points were gathered from multiple inventory years. We plan to update this graph with more recent data in the near future.

