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# Looking Beyond 2020 GHG Goals:

## What Can We Expect and What Do We Need to Accomplish?

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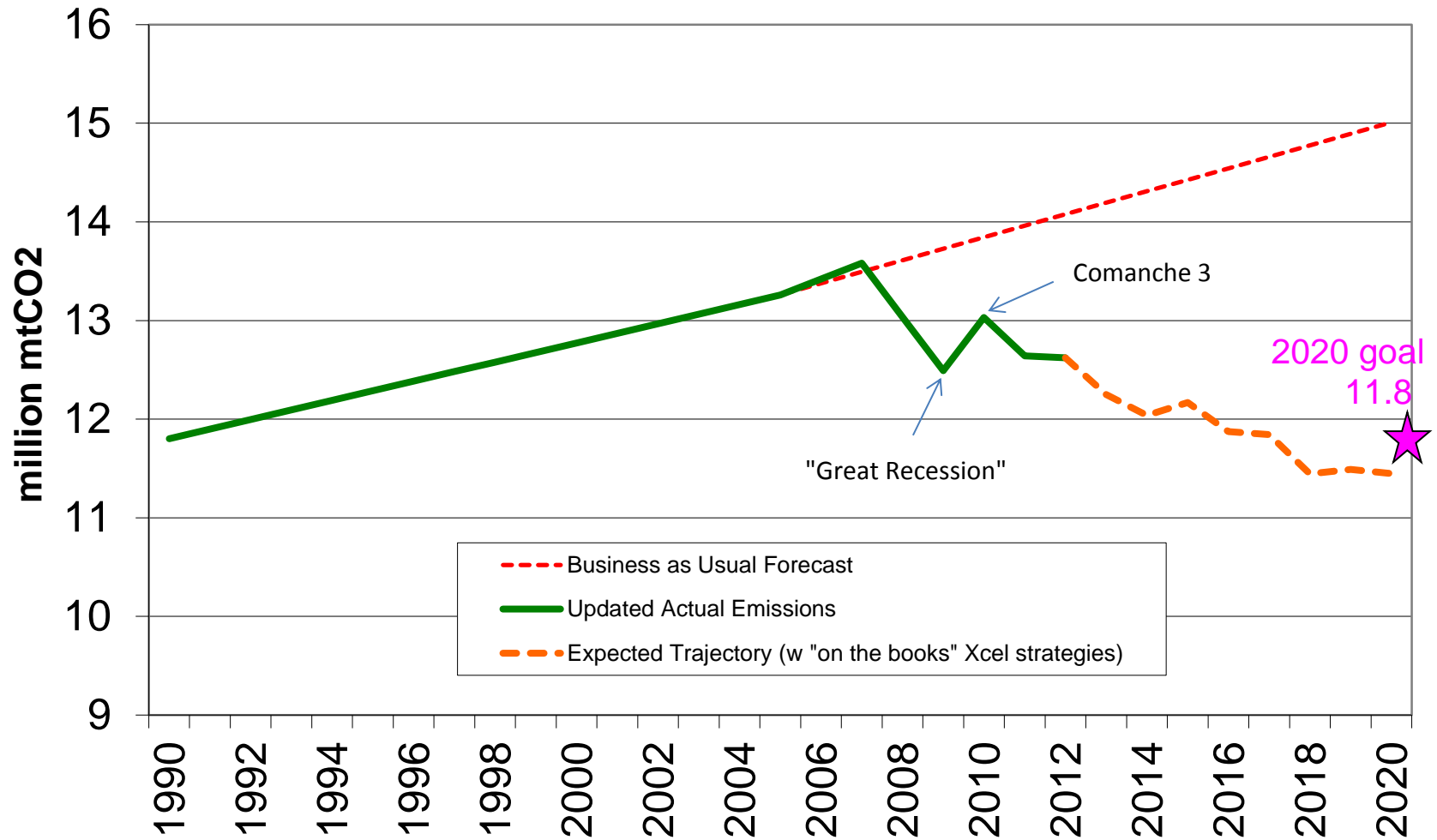
# Overview

- GHG trends through 2012
- Projected growth
- On the books strategies
- Emerging strategies
- What long-term goals are realistic?





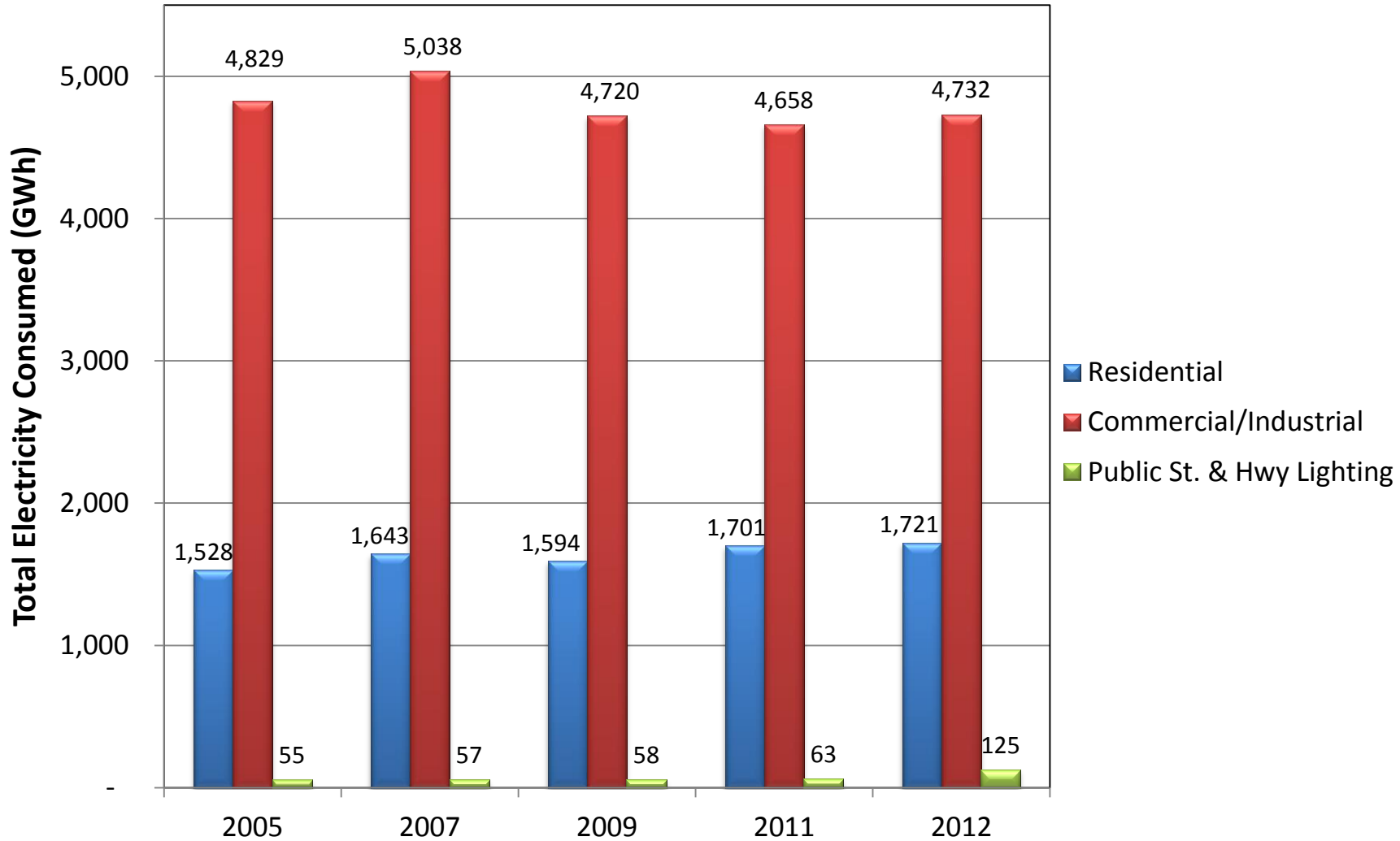
# GHG Trends 1990-2012 and Forecast to 2020





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# Electricity Consumption by Sector 2005-2012

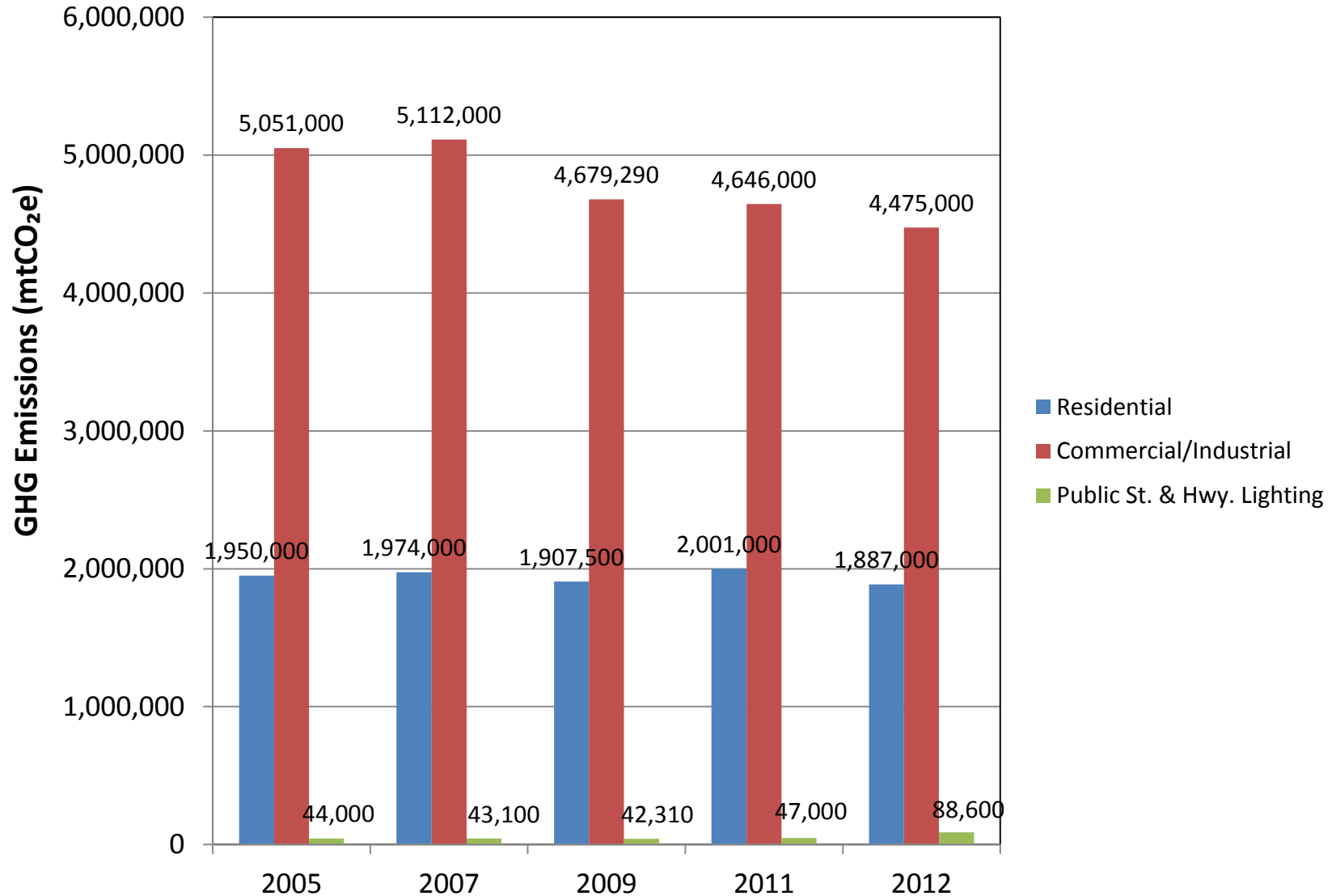


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# Denver GHG Emissions by Sector 2005-2012



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# How Will Projected Growth Affect Our Ability to Meet Long-term Goals?

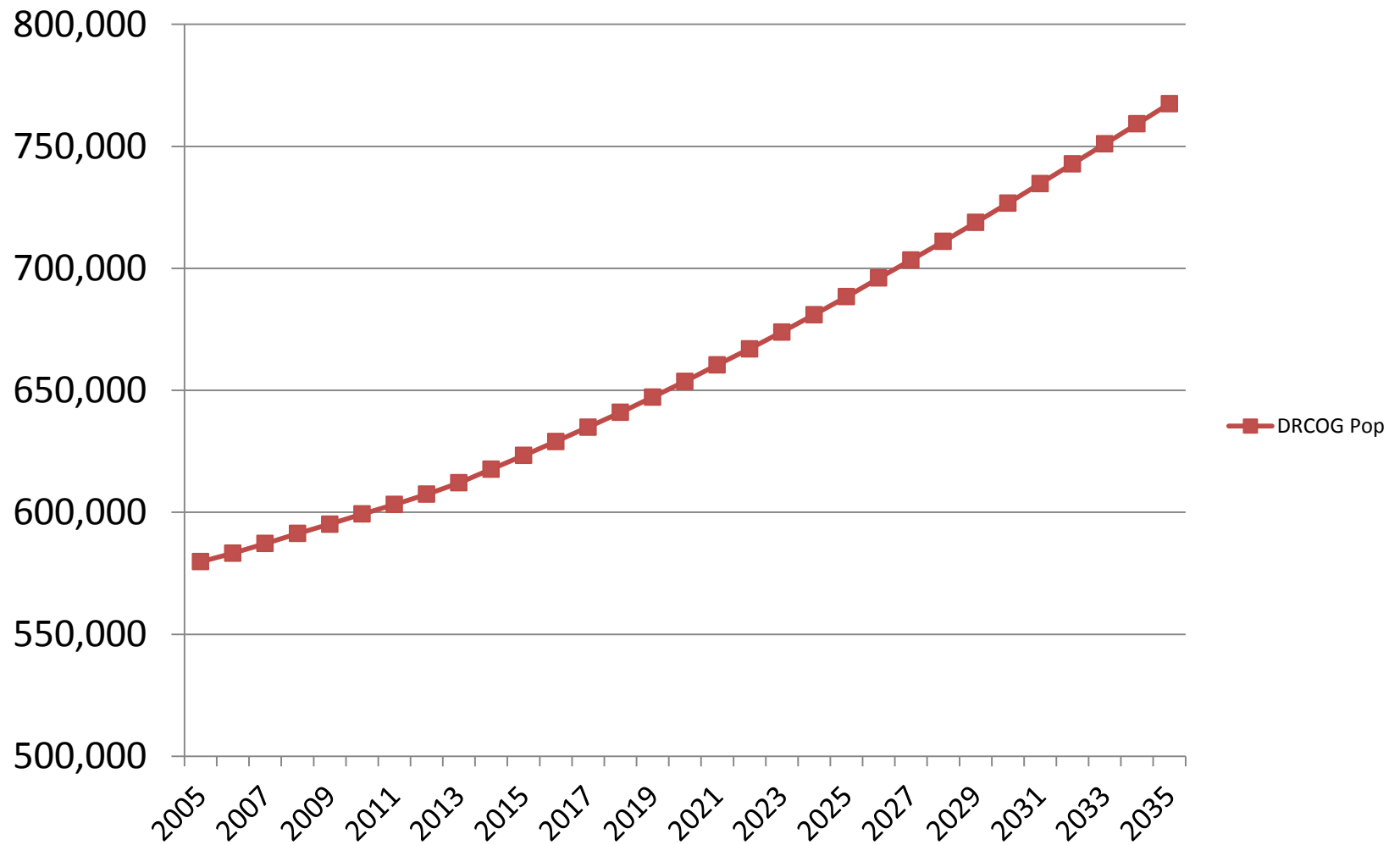


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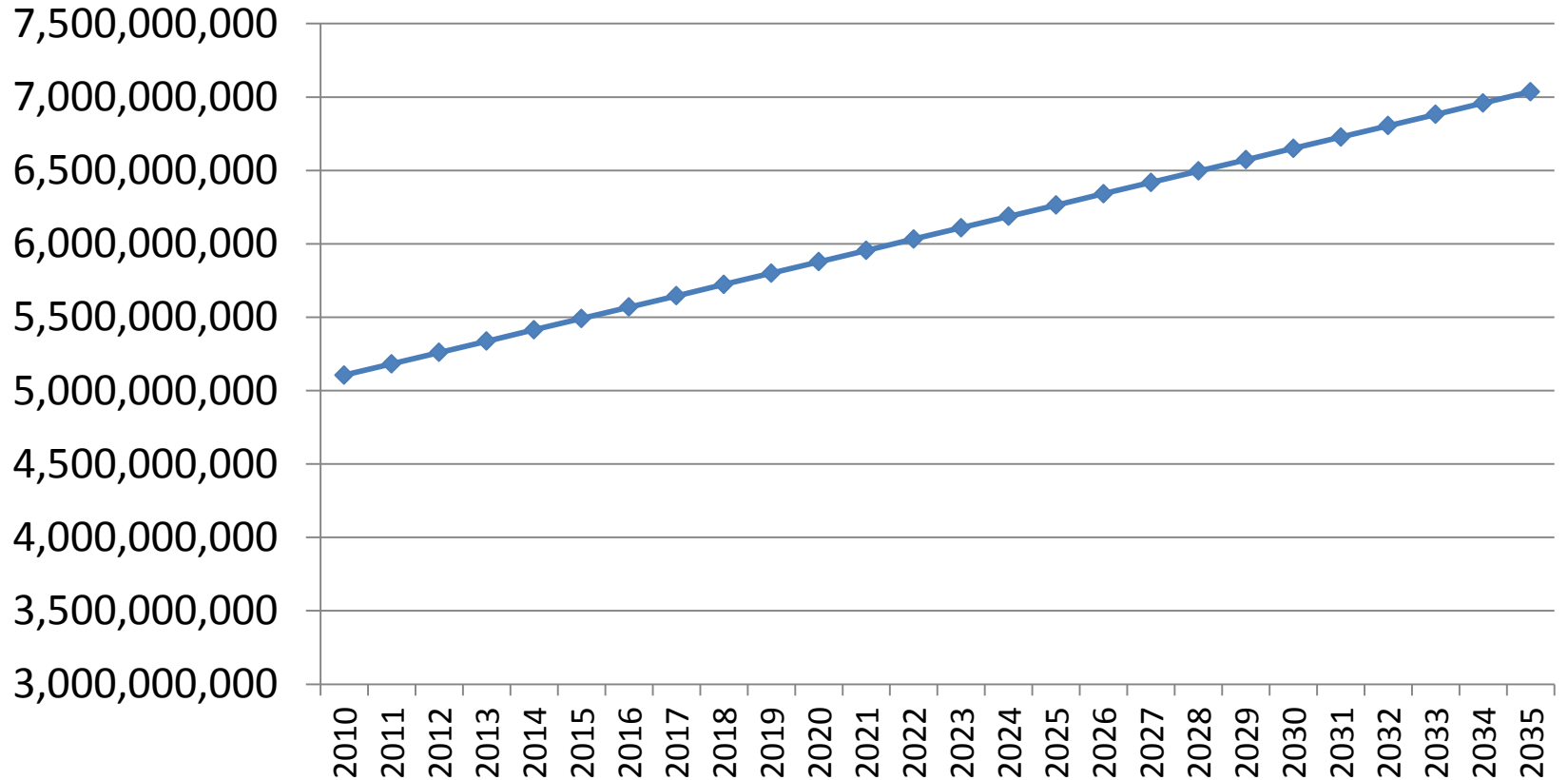
# Denver Population Forecast to 2035



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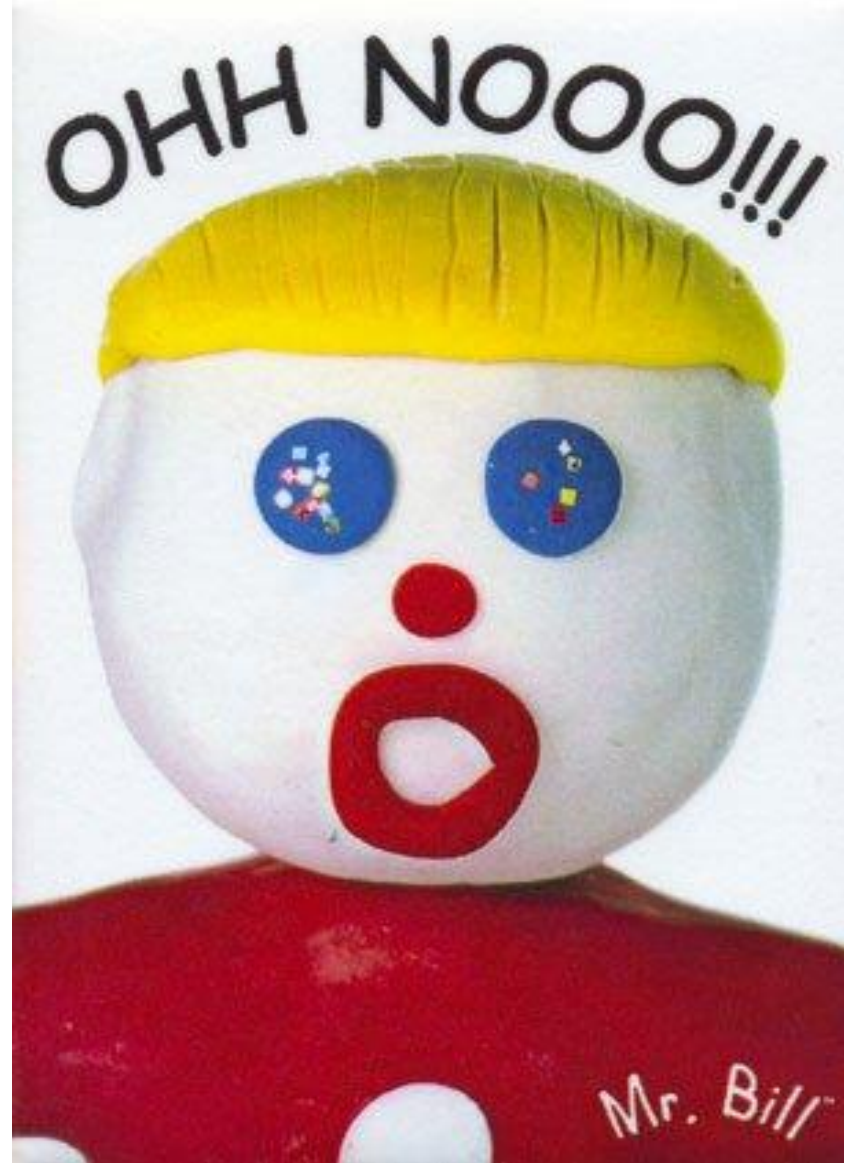
## Forecast Denver County Vehicle Miles Traveled (Passenger Vehicles)







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# Projections to 2030 and Beyond

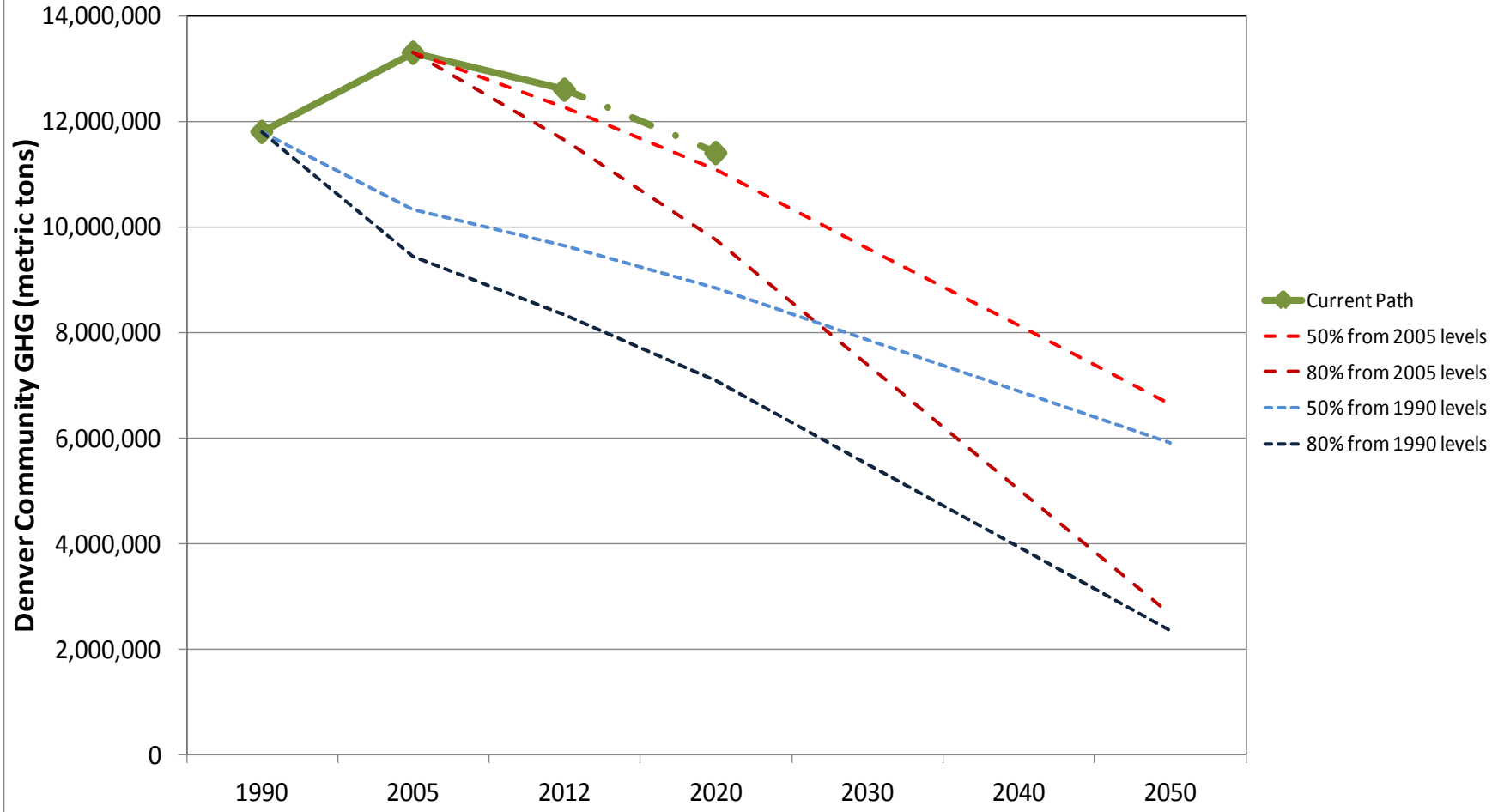
- Growth presents challenges as well as opportunities
- Need to lay the groundwork now for strategies to benefit us in the long-term
- Need to ensure that existing strategies are not rolled back





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### Current Projections Compared to Various 2050 Targets

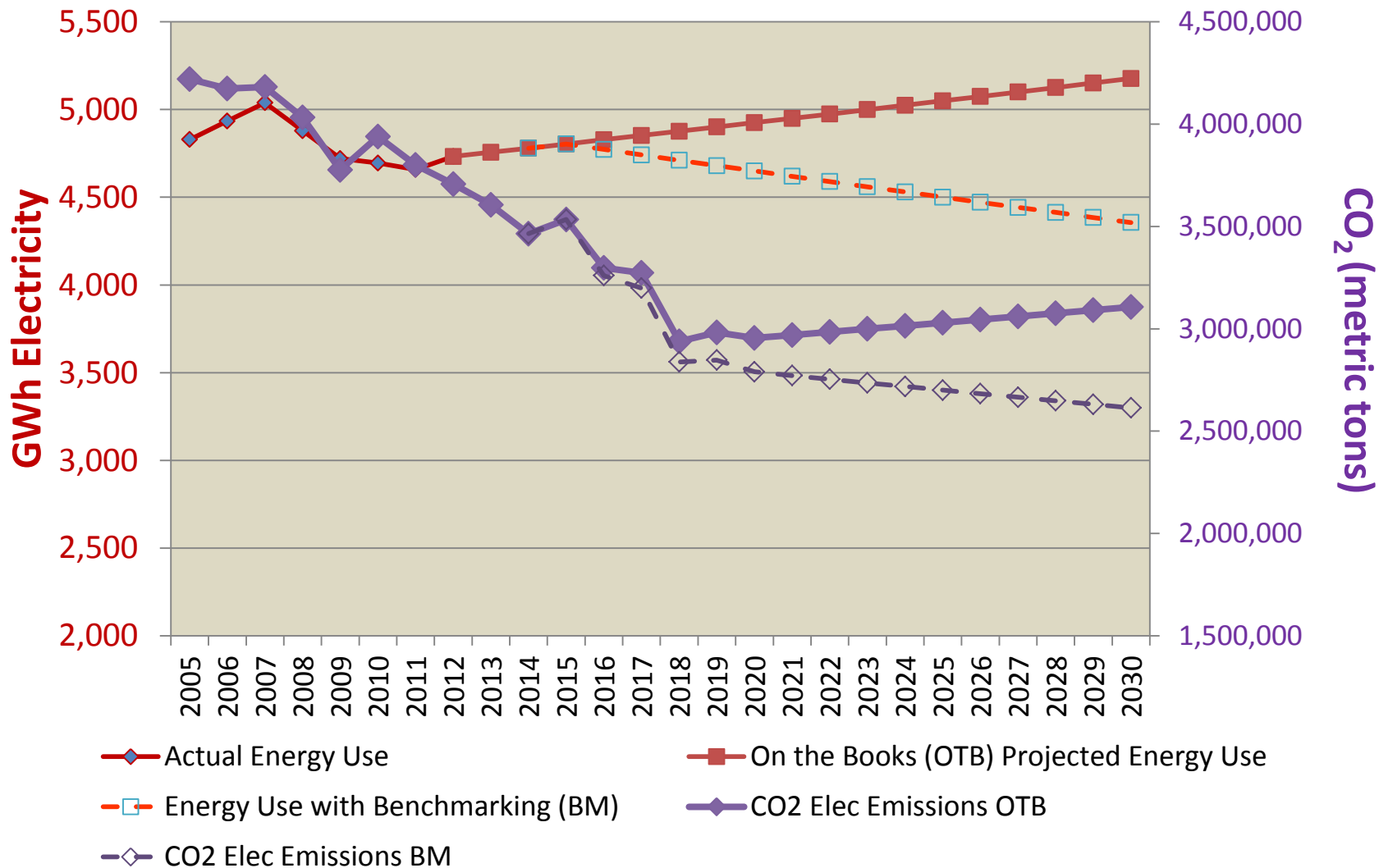


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# Denver Projected Energy Use and CO<sub>2</sub> Emissions - Commercial w/ Benchmarking



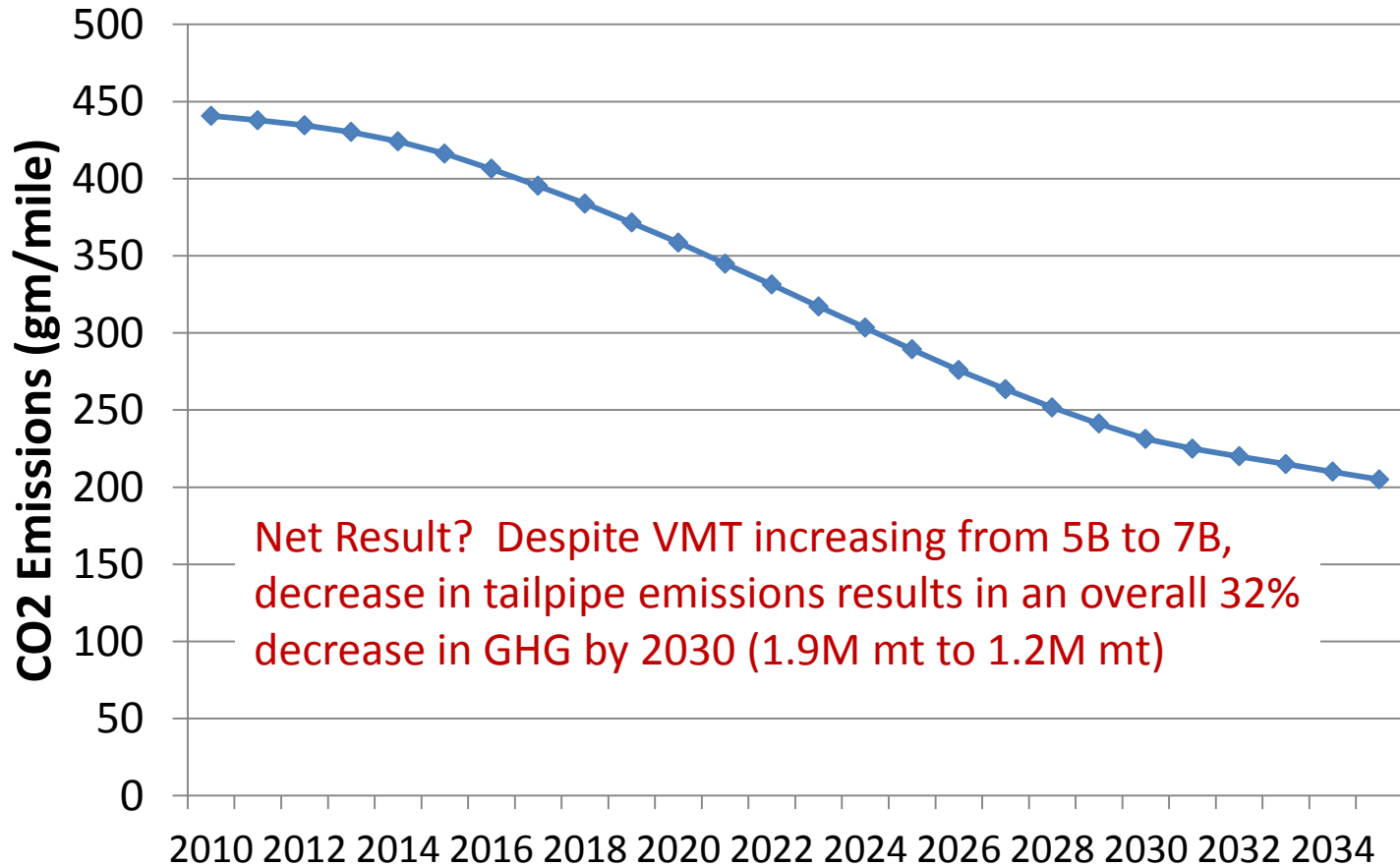
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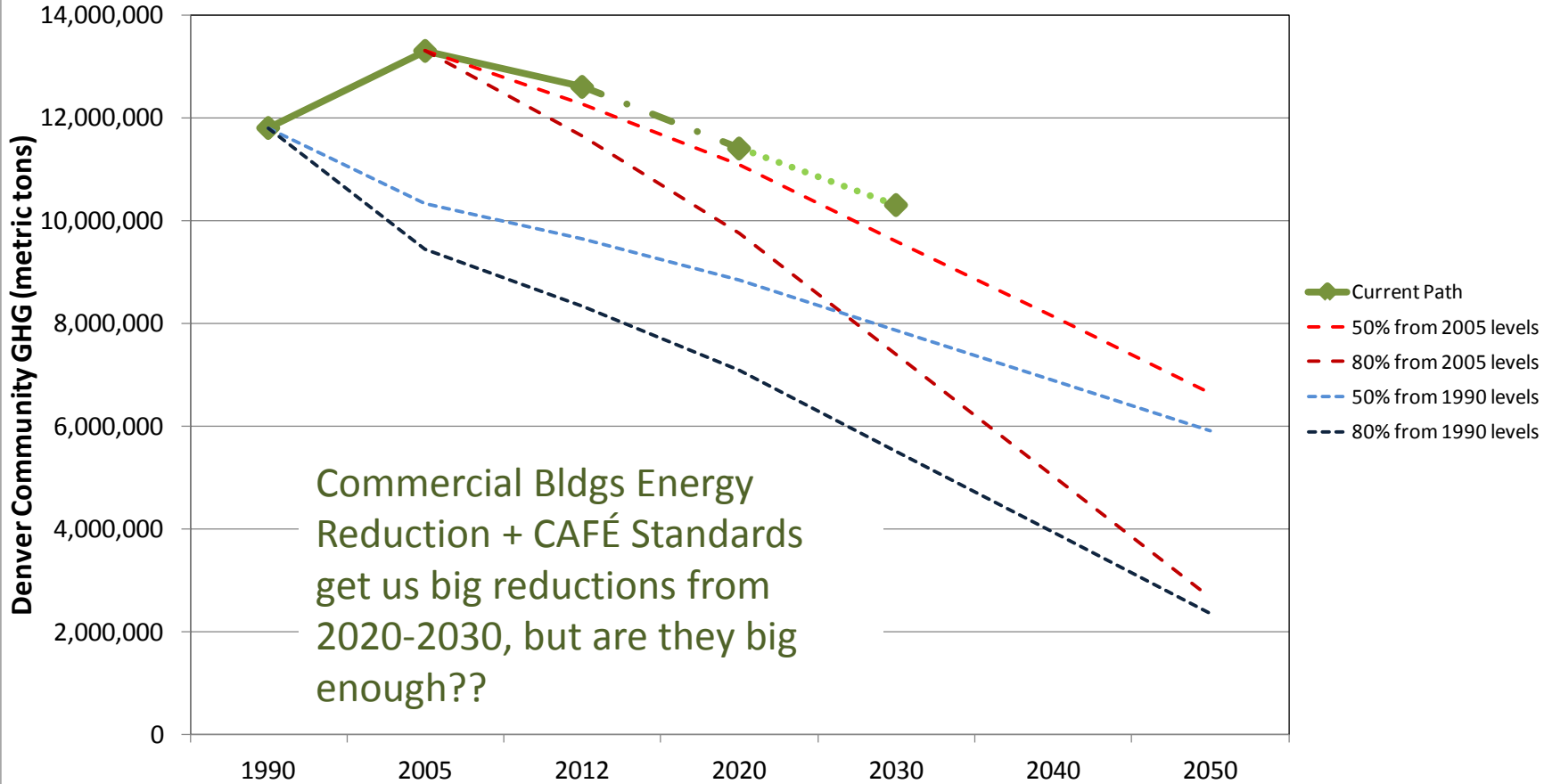


## Fleet Avg CO2 Emissions (w 2017+ CAFE Standards)





### Current Projections Compared to Various 2050 Targets





# Summary

- Despite recent and future growth, we are getting needed reductions in GHG and other air pollutants
- Future growth presents challenges to long-term goals
- There are some promising strategies on the horizon
- How do we grow, live, and work smarter?
- Technology versus behavior change and/or social norms?

