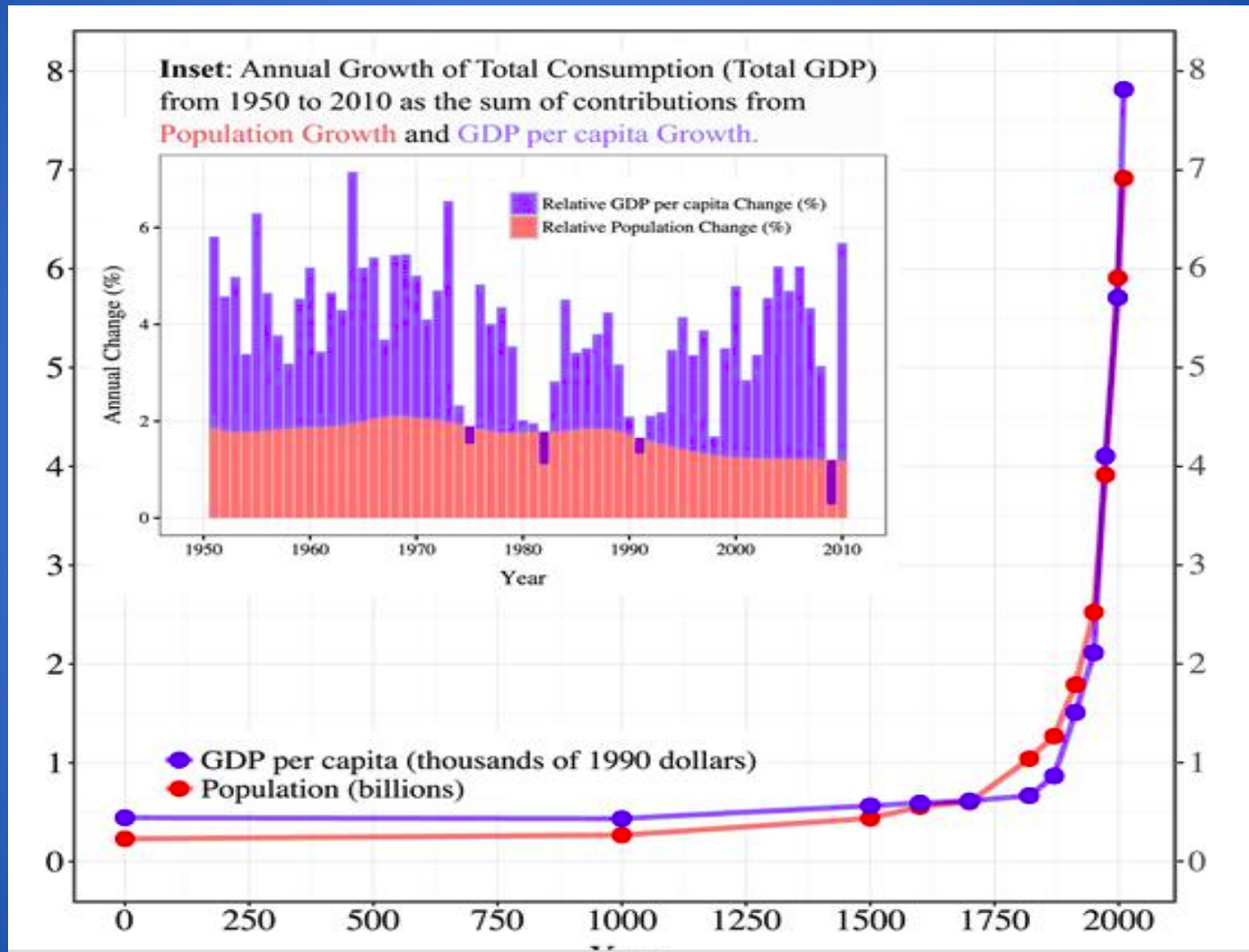


Global Heating and the Great Transformation

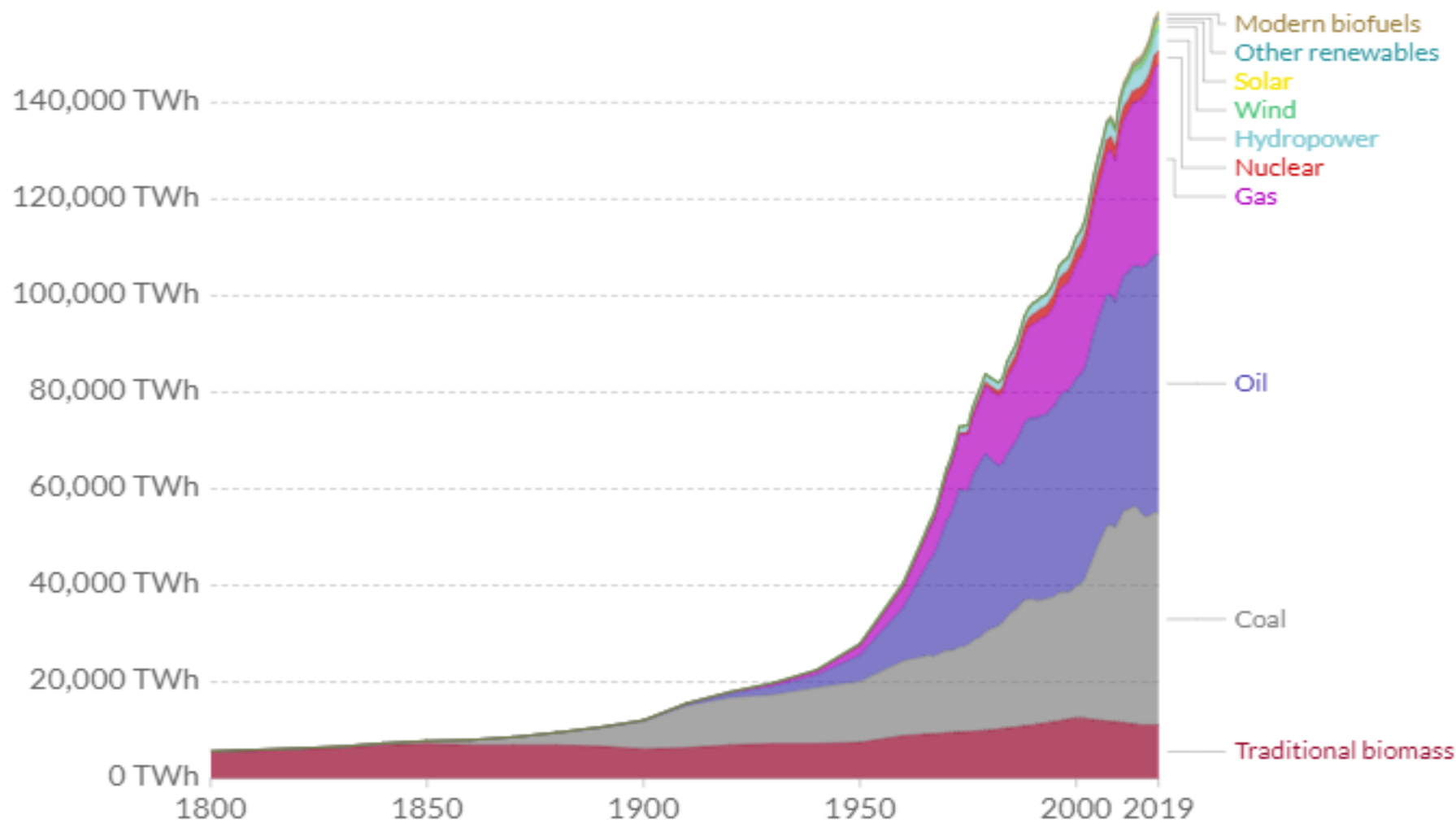
World Population and per capita GDP Growth



Global direct primary energy consumption

Direct primary energy consumption does not take account of inefficiencies in fossil fuel production.

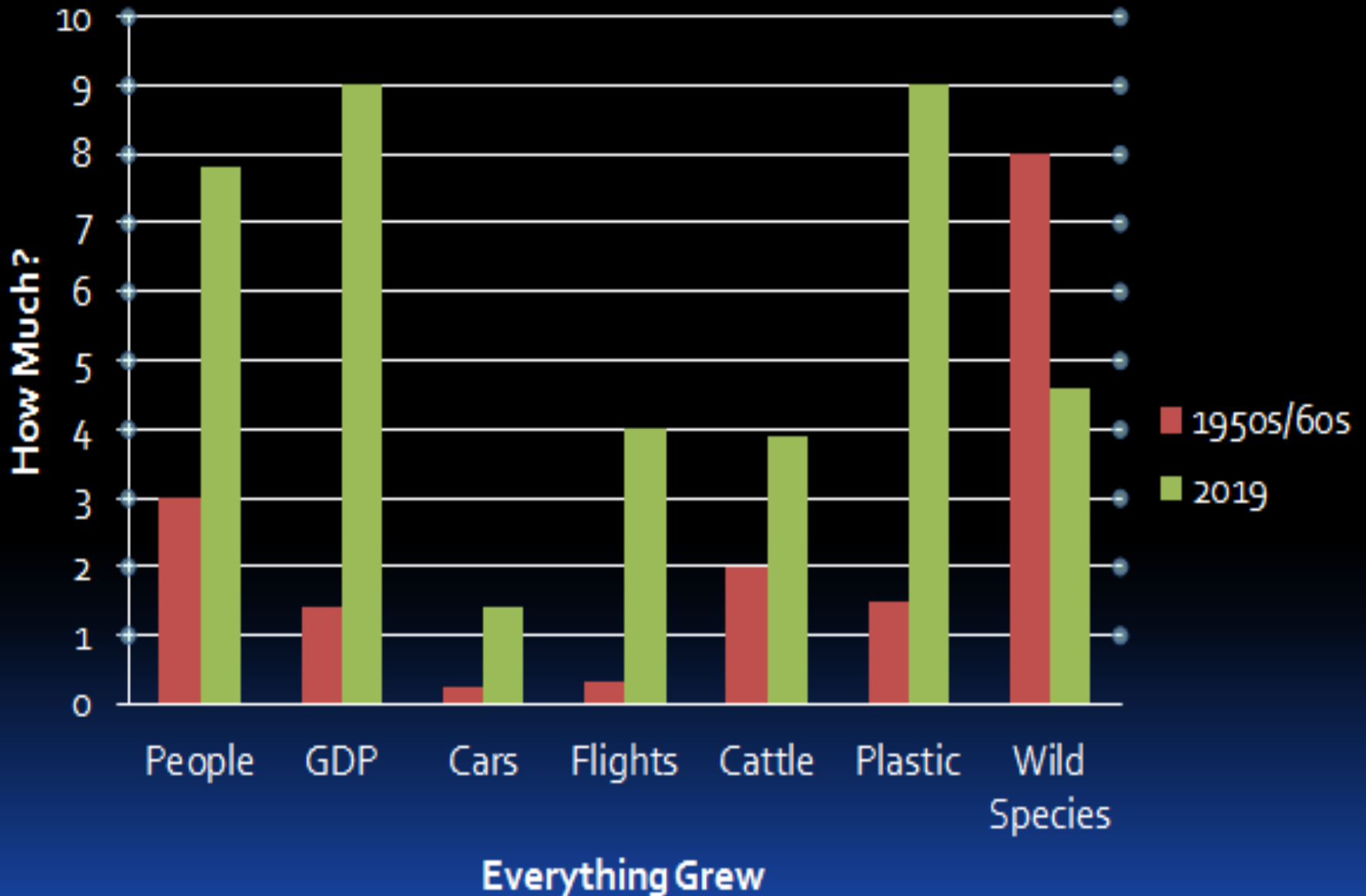
□ Relative



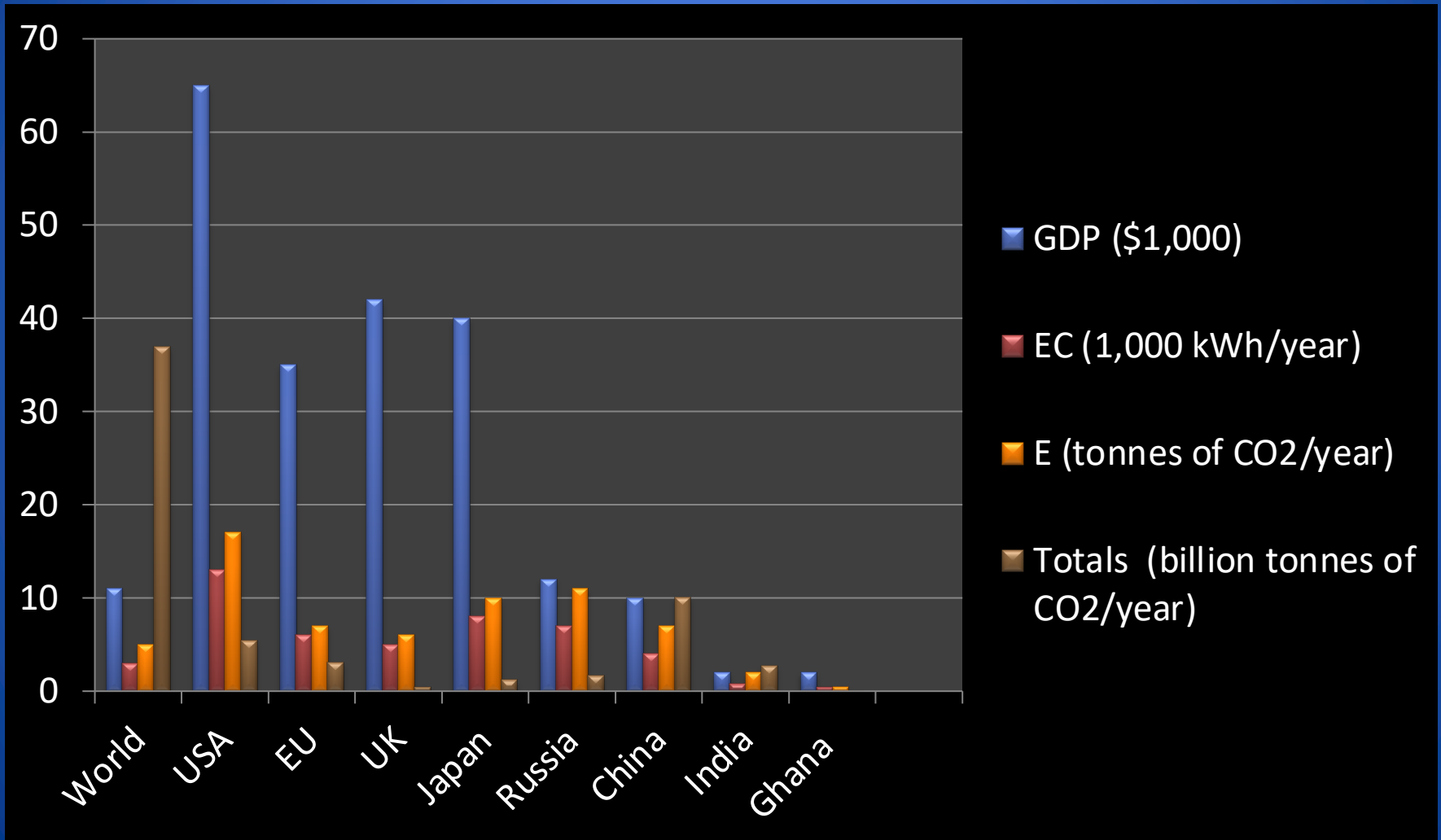
Sources: Václav Smil (2017) and BP Statistical Review of World Energy

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The Great Acceleration



Per Capita GDP, Electricity Consumption (EC), CO₂ Emissions (E) and Totals



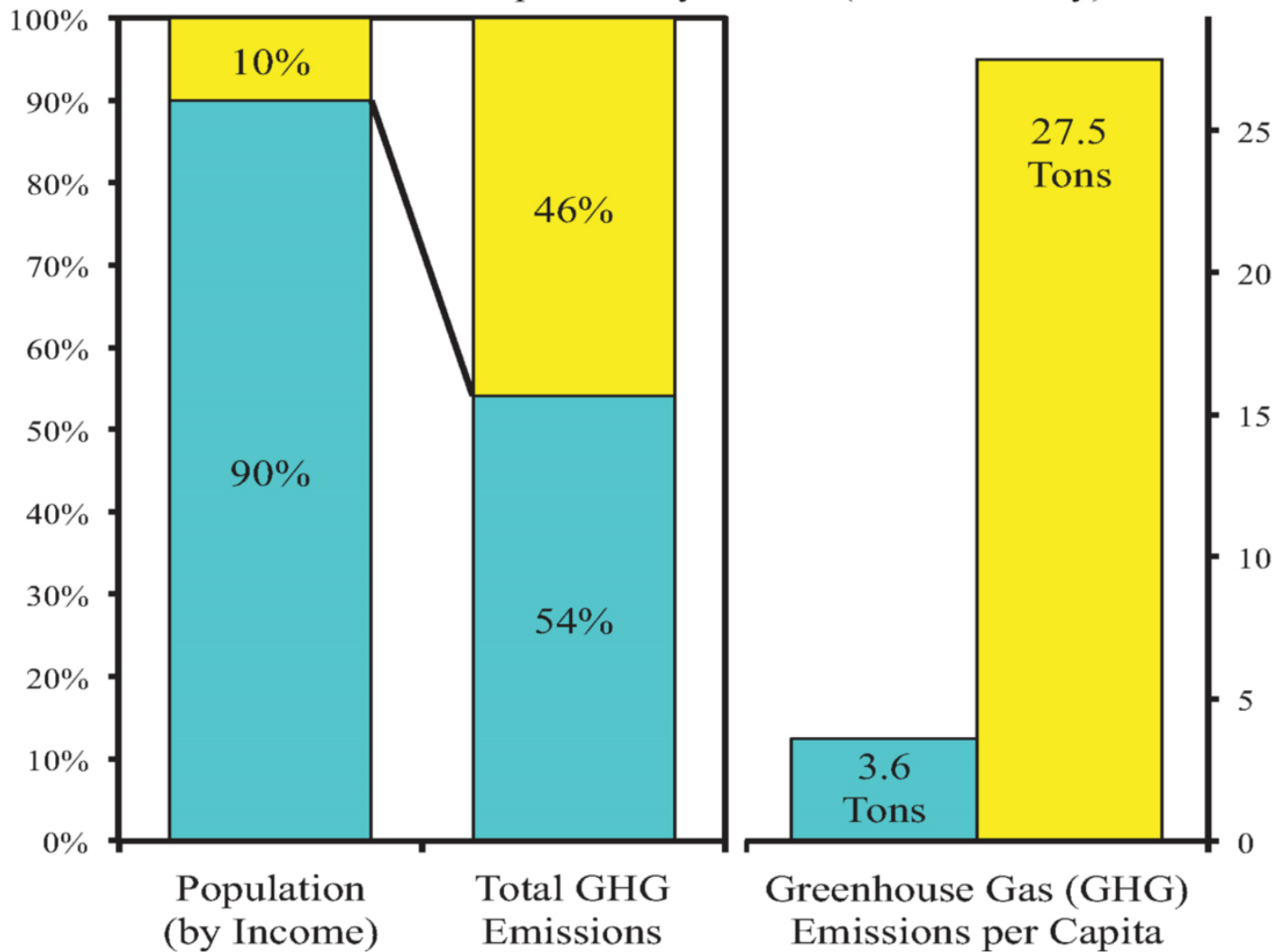
Questions?

If you have questions or comments, please contact me. Also if you are interested in documents or sources on any of the points raised.

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An Example of Global Inequality in Resource Use:

- Top 10% of World Population by Income (above \$23/day)
- Bottom 90% of World Population by Income (below \$23/day)



Resource use by the wealthiest 10% of world population produces almost as much GHG emissions as the bottom 90%. To raise everyone to the average standard of living of those earning >\$23/day would require ~5 times total GHG emissions.