

# The Conundrum of Carbon: Opportunity and Threat

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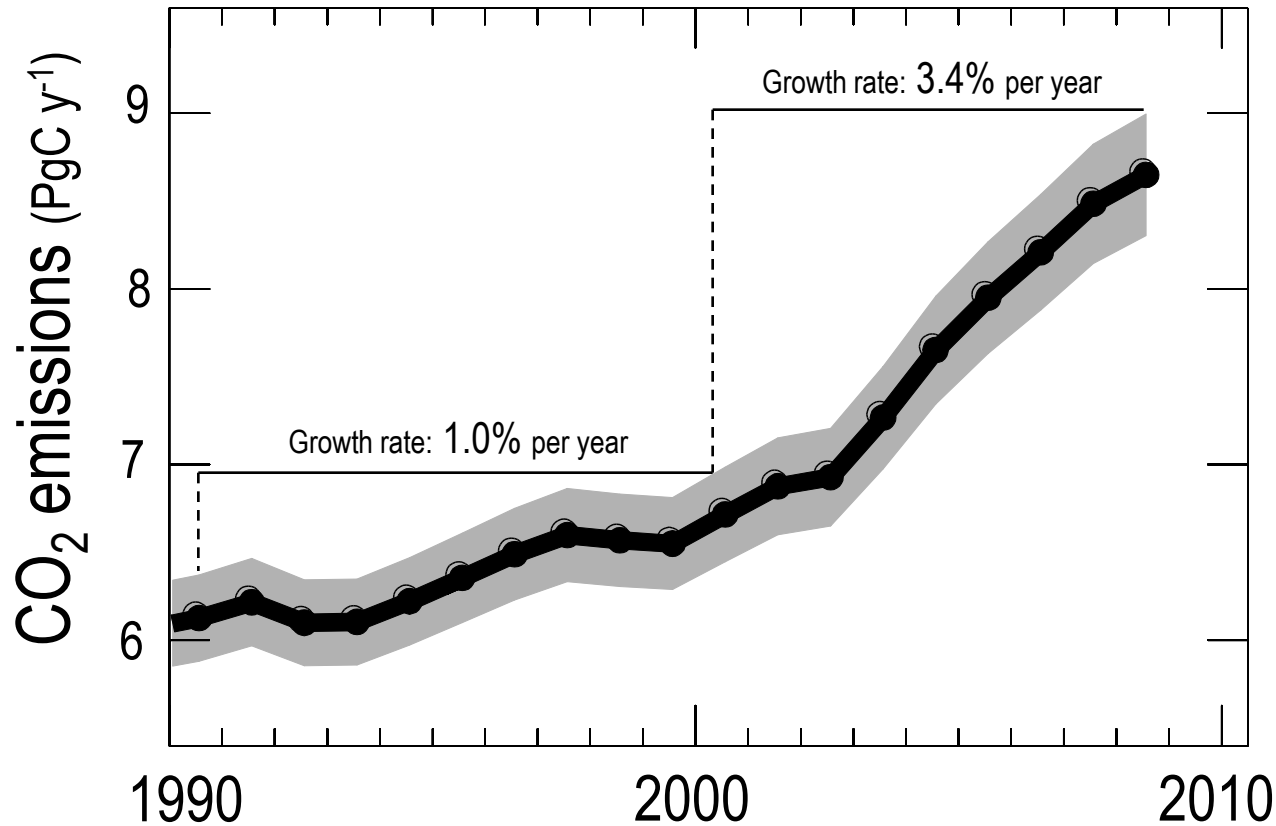
<http://www.harc.edu>

<http://www.texasclimate.org>

<http://www.texasclimatenews.org>

# Fossil Fuel Emissions and Cement Production

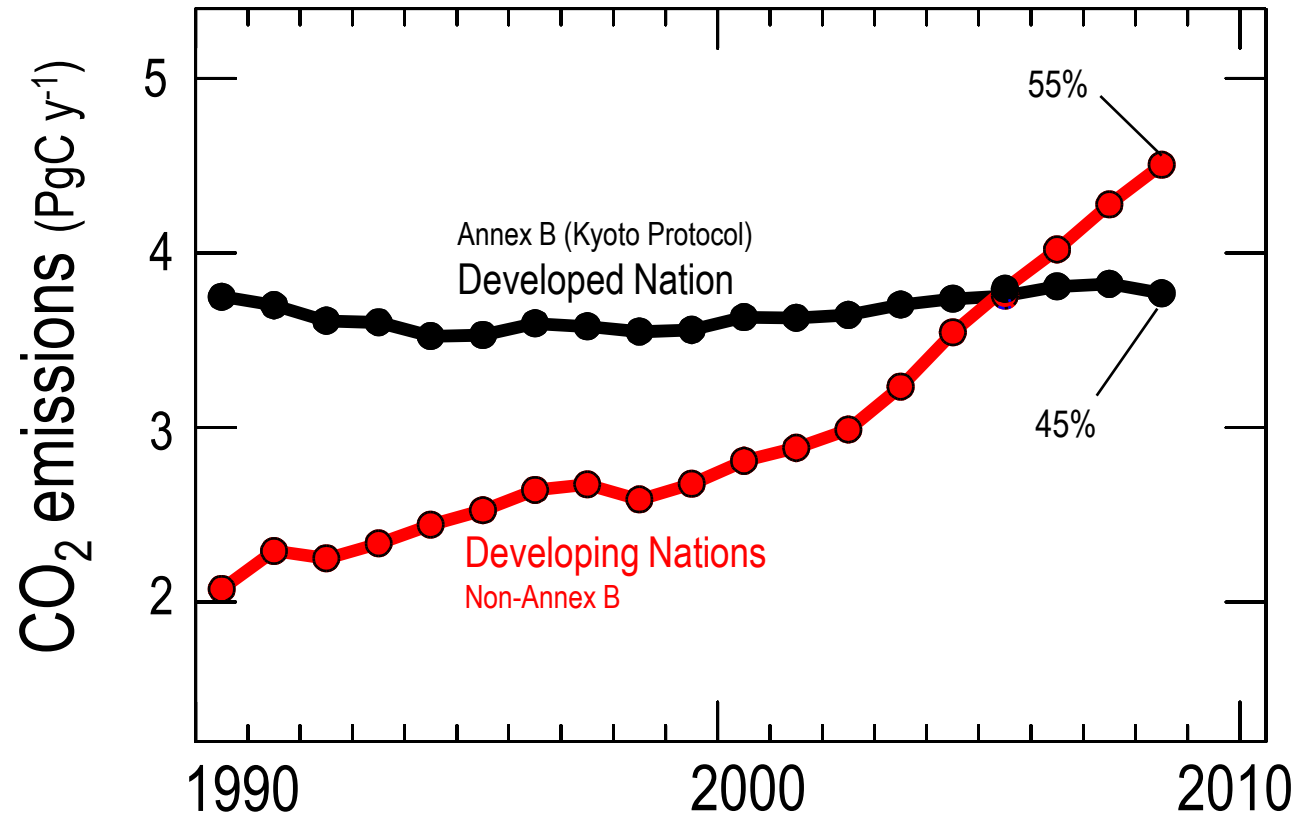
[1 Pg = 1 Petagram = 1 Billion metric tonnes = 1 Gigatonne =  $1 \times 10^{15}$ g]



**2008:**  
Emissions: 8.7 PgC  
Growth rate: 2.0%  
1990 levels: +41%

2000-2008  
Growth rate: 3.4%

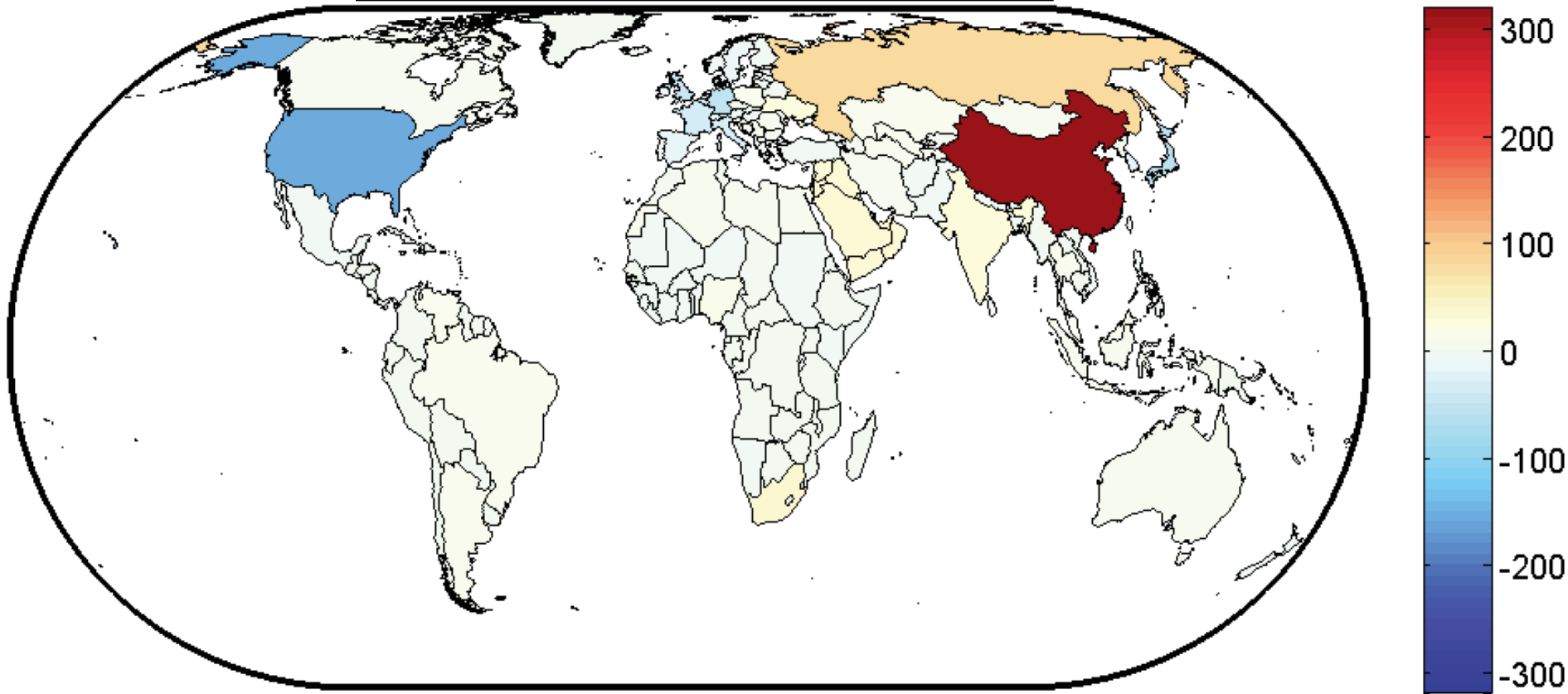
# CO<sub>2</sub> Fossil Fuel Emissions



# Balance of Emissions Embodied in Trade (BEET)

Year 2004

**Warm colors** → Net exporters of embodied carbon  
**Cold colors** → Net importers of embodied carbon



# Transport of Embodied Emissions

CO<sub>2</sub> emissions (PgC y<sup>-1</sup>)

