

Lecture 21, Wednesday, April 16, 2008

The correct grades for exam 2 are now posted.

April 16, 2008

## **Bush to Give Goals for Greenhouse Gases**

By [SHERYL GAY STOLBERG](#)

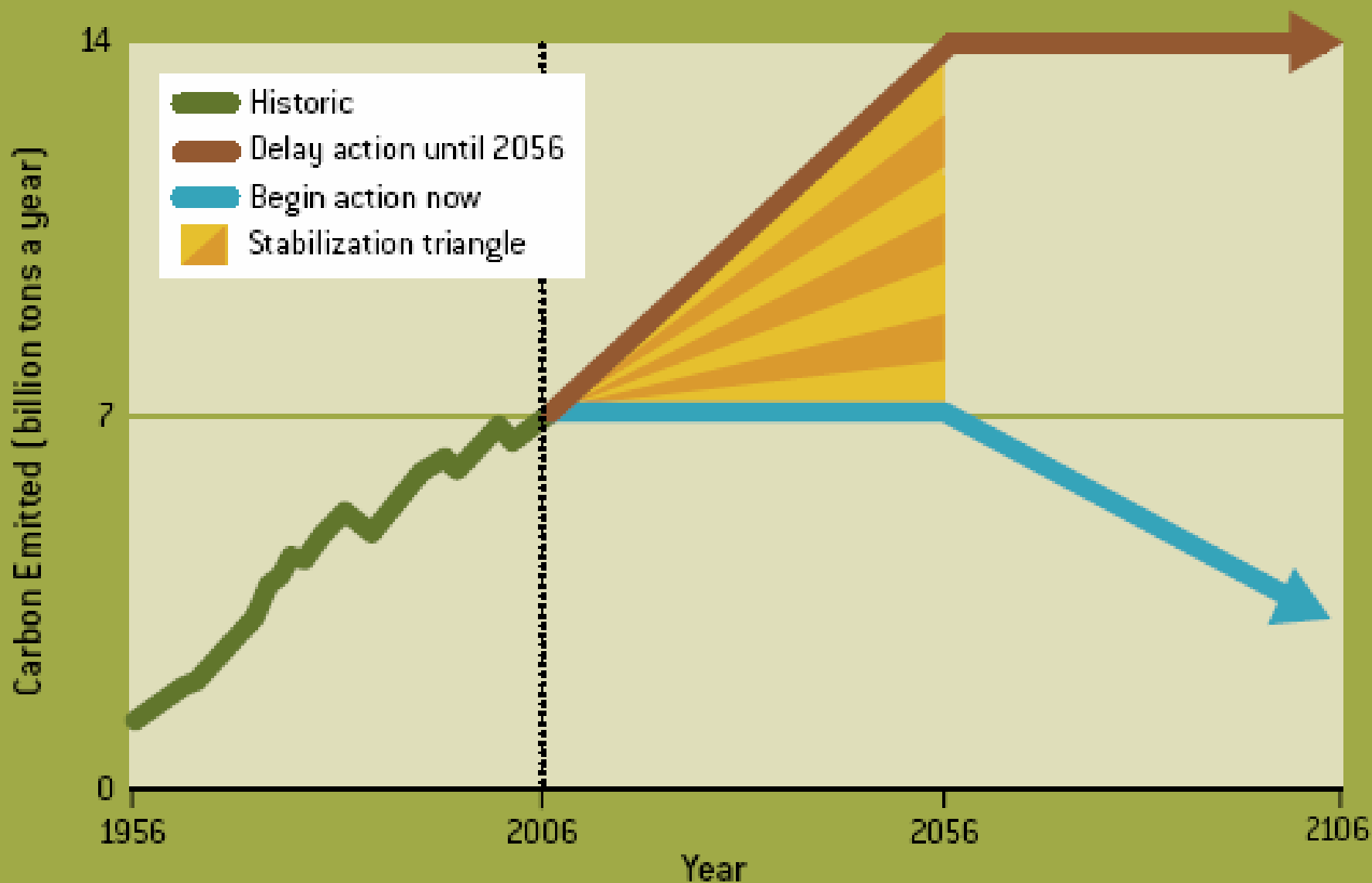
WASHINGTON — President Bush will deliver a Rose Garden speech on Wednesday to lay out specific goals for limiting the greenhouse gases that scientists say are responsible for warming the planet — a first for a White House that has been accused of dragging its feet in addressing the problem of [climate change](#).

Mr. Bush will use the speech to “make a commitment” to other nations about the intentions of the United States and will announce “an intermediate goal that will lead to a long-term goal,” said Tony Fratto, the deputy White House press secretary.

Mr. Fratto would not be more specific, but he said Mr. Bush did not intend to lay out a specific plan for achieving the reductions.

## ANNUAL EMISSIONS

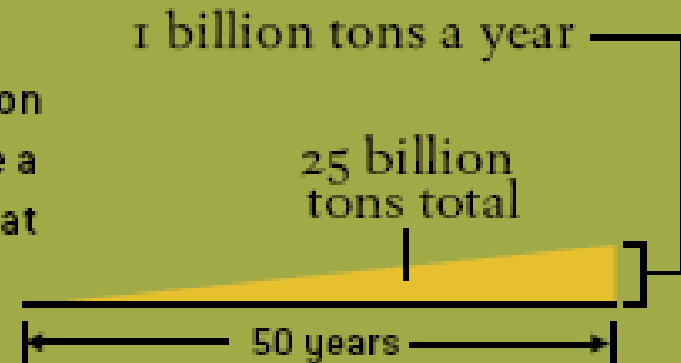
In between the two emissions paths is the "stabilization triangle." It represents the total emissions cut that climate-friendly technologies must achieve in the coming 50 years.



# The Wedge

## THE WEDGE CONCEPT

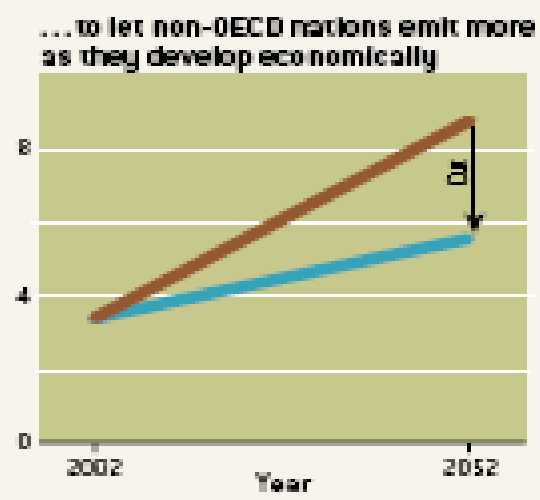
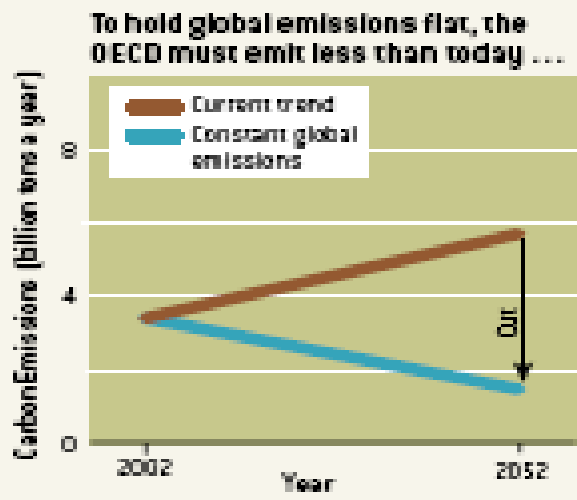
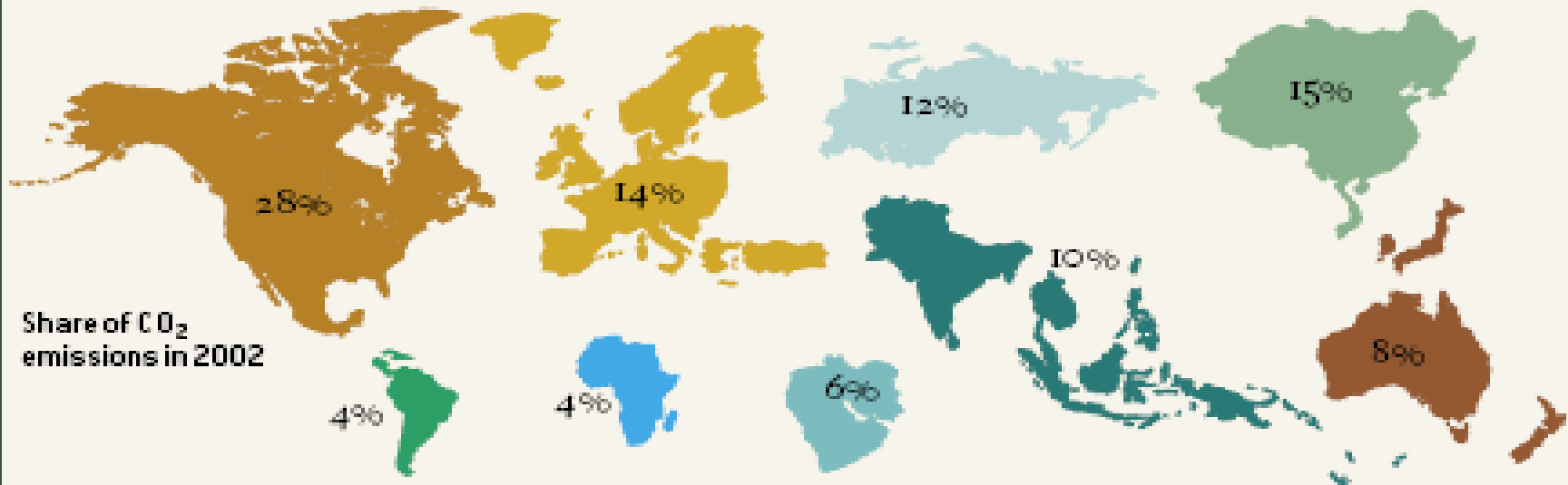
The stabilization triangle can be divided into seven “wedges,” each a reduction of 25 billion tons of carbon emissions over 50 years. The wedge has proved to be a useful unit because its size and time frame match what specific technologies can achieve. Many combinations of technologies can fill the seven wedges.





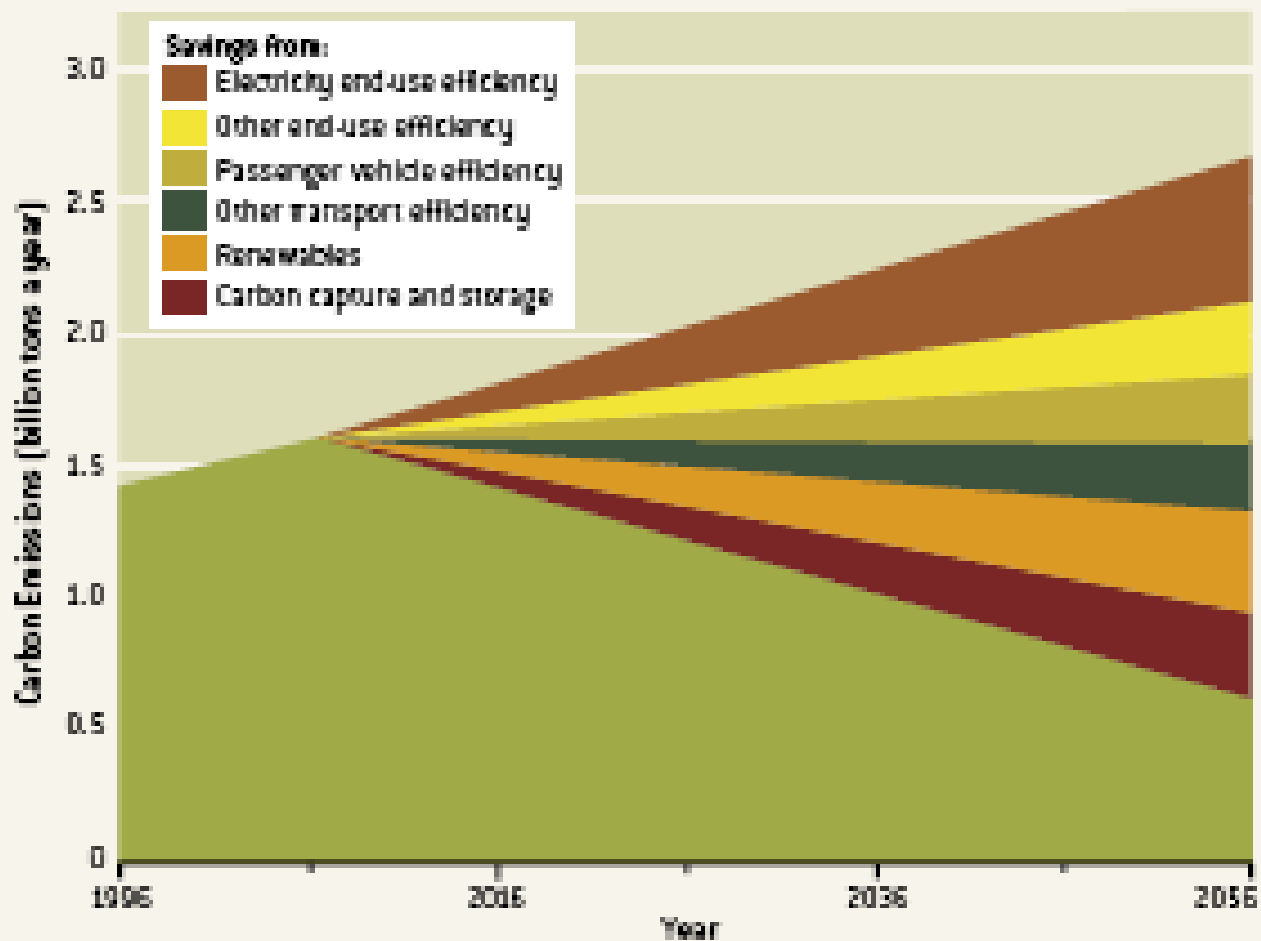
# RICH WORLD, POOR WORLD

To keep global emissions constant, both developed nations (defined here as members of the Organization for Economic Cooperation and Development, or OECD) and developing nations will need to cut their emissions relative to what they would have been (arrows in graphs below). The projections shown represent only one path the world could take; others are also plausible.



- OECD**
- North America and Mexico
  - Europe
  - East Asia and Oceania
- NON-OECD**
- South/Southeast Asia
  - Africa
  - East Asia
  - Former Soviet Bloc
  - West Asia
  - Central America and South America

## ONE PLAN FOR THE U.S.



▲ U.S. share of emissions reductions could, in this Natural Resources Defense Council scenario, be achieved by efficiency gains, renewable energy and clean coal.