

# International Herald Tribune

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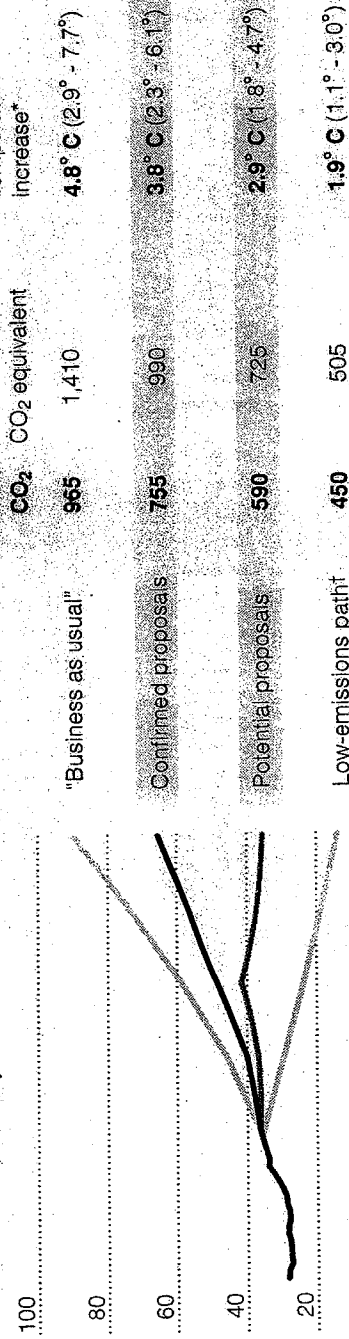
## Will it be enough?

The chart shows the estimated impact of proposals put on the table by major countries in Copenhagen. "Business as usual" is what the Intergovernmental Panel on Climate Change believes will happen if no effort is made to curb emissions. Confirmed proposals are official pledges, while potential proposals include reductions merely under consideration as well as those with conditions. The low-emissions path is roughly the amount of reductions scientists say are necessary to limit the rise in global temperatures to acceptable levels. A substantial gap remains between that level and what has been proposed so far.

**Global emissions of CO<sub>2</sub>**  
In billions of tons, annually

**Atmospheric CO<sub>2</sub> in 2050**

Temperature increase\*



\*Increase over preindustrial levels in 2100. †Meant to limit the rise in global temperatures to less than 2 degrees Celsius through a 50% reduction in and stabilizing of emissions by 2050.

Source: Climate Interactive's Climate Scoreboard

Note: All proposals are as of Tuesday.

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## A 'grand experiment,' both social and political

COPENHAGEN

While accord is possible, many vital details remain to be defined next year

BY ANDREW C. REVKIN

What just happened here?

After two tumultuous weeks of climate talks, negotiators at the Copenhagen summit have agreed on a framework for a global climate agreement that will be finalized next year.

The deal is a landmark, but it is also a grand experiment. It is a test of whether nations can agree on a binding agreement to curb global warming.

Will the Earth's atmosphere ever notice a change? Will communities ever facing risks from shifting climate patterns and rising seas benefit from the hundreds of billions of dollars that have been pledged? Will the money even flow from rich to poor?

To a large extent, clear answers will only come in hindsight, largely because much of what is being attempted by the international community has never been tried before, at least not on the scale of the global energy system and climate.

It took 17 years to move from the 1992 Earth Summit in Rio de Janeiro — which produced the 150-page, 90-word document — to Copenhagen, where the final agreement was reached. Climate change is not the only global issue that has seen such a long process. The average temperature ceiling for which to aim and are laying out a suite of incomplete plans to avoid reaching thresholds.

"This is a grand experiment," said James G. Titus, who has been studying the impact of global warming since the 1980s for the Environmental Protection Agency. "Not just geophysical, but social, economic and political."

It is worth noting that in 2005, Mr. Titus hedged his bets, spending \$20,000 to elevate his summer house and yard on the New Jersey shore by about five feet or 30 centimeters.

On paper, a political accord has nearly been reached — involving 13 countries — on steps to curb greenhouse gases, save "rain forests," shield "vulnerable people and share the costs."

But to generate a global consensus

among states as varied as Italy and Indonesia, enormous compromises had to be made. Vital details, in diplomatic parlance, are "to be elaborated" next year.

The most vexing differences arose from an epic tussle between China and the United States, the economic titans that are the dominant contributors to the man-amplified greenhouse effect.

In the meantime, the slowly reviving global economy and steadily rising human populations guarantee that climate change will be a global challenge for decades to come.

But some specialists in this arena doubt that the drive to force behind such changes are the actual measure of the global energy system and climate.

They say it is not the result of rising awareness but the need to change energy norms and seek new sources of power, not the virtuous circle of a variety of more prosaic reasons, from national security fears to save money by cutting energy waste.

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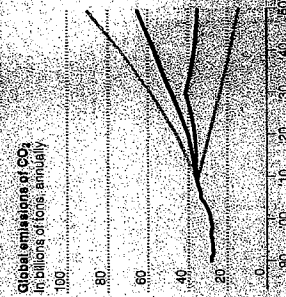
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Source: Climate Intelligence's Climate Outlook

### Atmospheric CO<sub>2</sub> in 2050

CO <sub>2</sub> (CO <sub>2</sub> equivalent)	Temperature increase
140	4.8°C (45°F - 77°F)
90	3.5°C (32°F - 50°F)
40	1.8°C (33°F - 51°F)

Note: All CO<sub>2</sub> values are as of January