

Climate Change 101: International Action

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Wingspread
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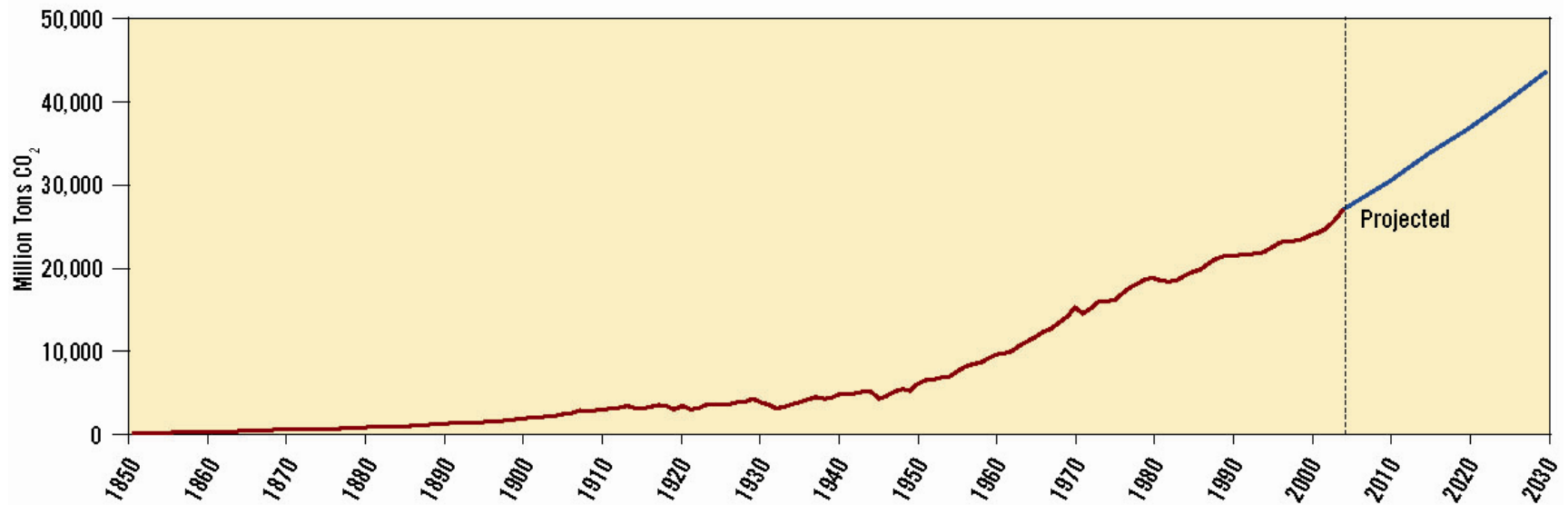


- o The Emissions Picture
- o International Climate Effort:
Past and Present
- o A Way Forward

Global Emissions

Figure 1

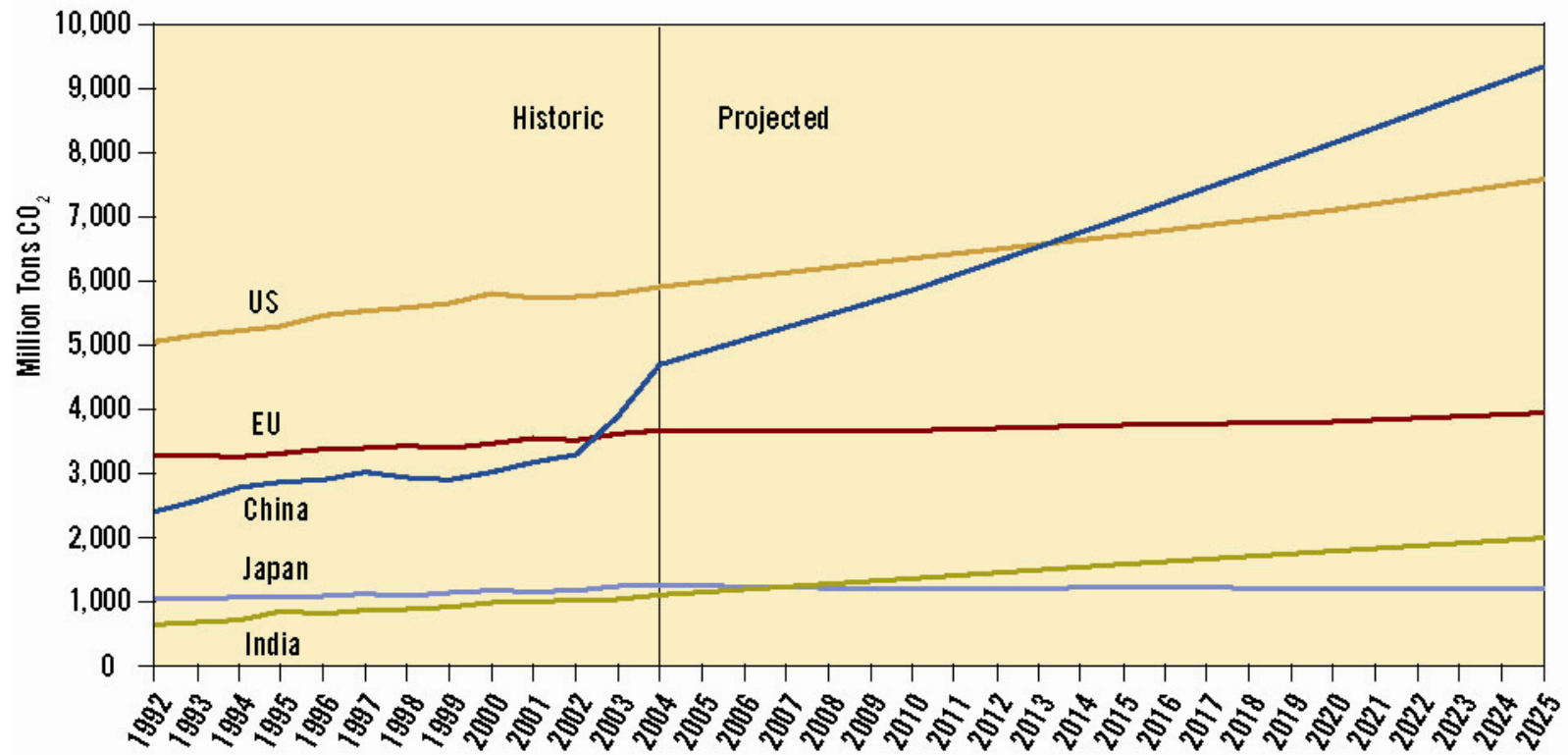
Global Carbon Dioxide Emissions: 1850–2030



Major Emitters

Figure 2

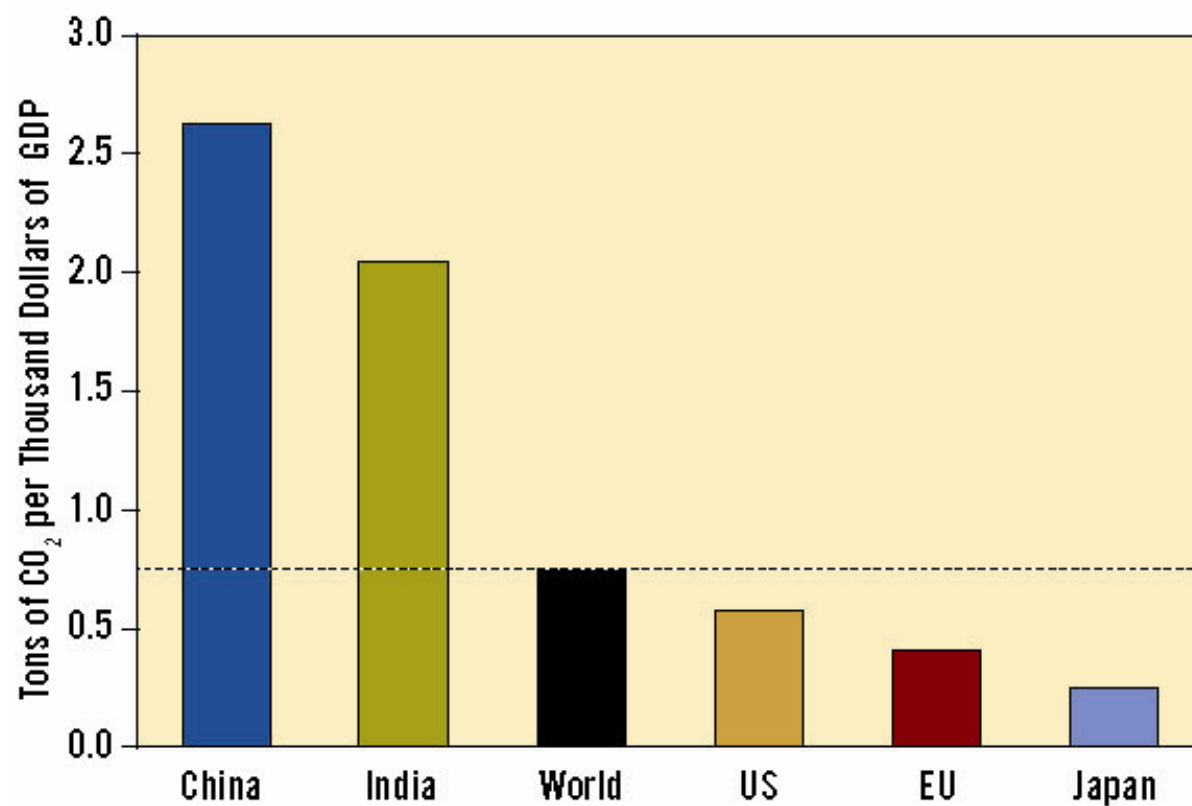
CO₂ Emissions of Major Economies



Emissions Intensity

Figure 3

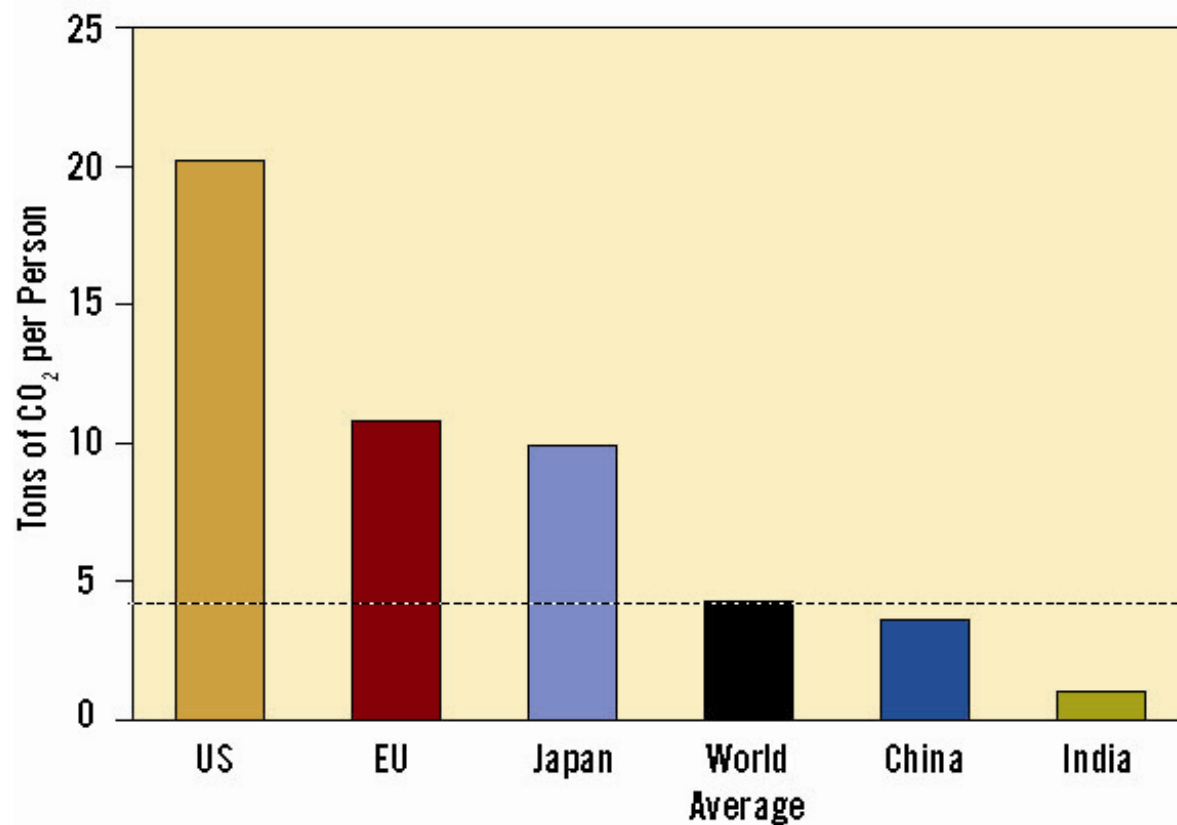
Carbon Intensity: 2002



Emissions Per Capita

Figure 4

Per Capita CO₂ Emissions: 2004



- o 1992 – United Nations Framework Convention on Climate Change
 - Long-term objective: stabilization to “prevent dangerous anthropogenic interference with the climate system”
 - Principle of “common but differentiated responsibilities”
 - Voluntary target for industrialized countries: 1990 emission levels by 2000

o 1997 – Kyoto Protocol

- Entered into force in 2004 with Russian ratification
- Binding emission targets for 36 developed countries
 - Account for 2/3 of developed country emissions and 1/3 of global emissions
 - Targets range from -8% to +10% from 1990; average -5.2%
- A market-based system
 - At US insistence, includes international emissions trading
 - Clean Development mechanism
 - 400+ approved projects expected to generate 680 million tons of credits worth over \$5 billion

o Next Steps

- Montreal 2005
 - Open-ended negotiations under Kyoto to set post-2012 targets for developed countries
 - Two-year dialogue under Framework Convention on long-term cooperative action
- Nairobi 2006
 - Review of Kyoto Protocol set for 2008
 - Talk of a new negotiating “mandate” in 2007

National/Regional Efforts

o EU ETS

- Mandatory CO₂ limits for 12,000 installation in six sectors across EU-25

o UK

- National CO₂ targets of 20% below 1990 by 2010, 60% below by 2050

o Japan

- “Voluntary” agreements to reduce industrial GHGs to 1990 levels, electricity emissions 20% below, by 2010

National/Regional Efforts

o China

- Intensity goals: reduce energy intensity 20% by 2010 and 50% by 2020
- Renewables target: 15% of primary energy and 20% of electricity by 2020
- Auto standards: 19-38 mpg in 2005; 21-43 mpg in 2008

o India

- Renewables goal: 10% of new generation by 2010
- Rural power goal: electrify 18,000 villages from biomass, small, wind, small hydro, etc. by 2012

o Climate Dialogue at Pocantico

- Off-line discussions among 25 senior policymakers and stakeholders from 15 countries
 - Policymakers: Argentina, Australia, Brazil, Canada, China, Germany, Japan, Malta, Mexico, Tuvalu, UK, US (Senate)
 - Stakeholders: Alcoa, BP, DuPont, Eskom, Exelon, Rio Tinto, Toyota; Pew Center, TERI (India), World Economic Forum
- Group's report, released in November 2005 with Senators Lugar and Biden, recommends ideas and approaches for consideration by the broader policy community

Pocantico: Framing/Objectives

- o Climate change is inherently a global challenge; should be met with a global response
- o UN Framework Convention establishes a foundation, and fundamental guiding principles, for a global approach
- o A post-2012 framework must:
 - Engage major economies
 - Provide flexibility for different national strategies and circumstances
 - Integrate climate and development
 - Couple near-term action, long-term focus
 - Address adaptation needs
 - Be viewed as fair

o Six Elements:

- Targets and trading
- Sectoral approaches
- Policy-based approaches
- Technology cooperation
- Adaptation
- Aspirational long-term goal

o An Integrated Framework

- Linking and negotiating across tracks may produce a more balanced and ambitious effort
- Negotiations could be could take the form of sequential bargaining
- Critical issue: Terms of engagement
 - May need to agree at the outset that certain countries negotiate within designated tracks appropriate to their circumstances

o U.S. engagement

- Lugar-Biden resolution calls for US to negotiate under UN Framework Convention to establish mitigation commitments for all major economies
- International engagement should proceed in parallel with domestic policy effort
 - Progress on each front allows greater progress on the other
- In time for agreement on a post-2012 effort?